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THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August, 1909

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N.Y., March 17, 1909. AUG. POEHLMANN, Chicago, president; BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., president; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.
ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect.

Grass and Roses.

I looked where the roses were blowing,—
They stood among grasses and reeds;
I said, "Where such beauties are growing,
Why suffer these paltry weeds?"

Weeping, the poor things faltered,
"We have neither beauty nor bloom,
We are grass in the roses' garden—
But our Master gives us this room.

"We have fed His humblest creatures,
We have served Him truly and long;
He gave no grace to our features—
We have neither color nor song.

"Yet He who has made the roses
Placed us on the self-same sod;
He knows our reason for being—
We are grass in the garden of God."

—JAMES FREEMAN CLARKE.

American Carnation Society.

Eighteenth Annual Meeting, Indianapolis, Ind., January 27-28, 1909.

Convention Proceedings.

President Stuart of the State Florists' Association of Indiana, promptly called the eighteenth annual meeting of the American Carnation Society to order by presenting City Attorney Bowen, who, in the absence of the mayor, presented the visitors with the freedom of the city in very felicitous terms. Herman Junge, of Cumberland, then welcomed the guests on behalf of the State Florists' Association, E. G. Gillett, of Cincinnati, O., responding. President Patten then delivered his address and was followed by Treasurer Dorner, whose report will be found elsewhere in this issue. Secretary Herr presented his annual report, which included his resignation. Letters were read from the florists' clubs of Milwaukee and Pittsburg, urging that the next convention be held in those cities, the former placing a claim to consideration in 1911 if the members decided to go elsewhere next year. Pittsburg was ultimately chosen as the place of meeting in 1910. Officers for the ensuing year were elected as follows:

Albert M. Herr, Lancaster, Pa., president.

Fred Burki, Pittsburg, Pa., vice-president.

Fred Dorner, Jr., treasurer.

A. F. J. Baur, secretary.

Richard Witterstaetter was selected to fill the vacancy caused by the retirement of W. N. Rudd, and Fred Burki was appointed a member of the board of directors for a five year term, succeeding J. S. Wilson, of Des Moines, Ia.

Albert M. Herr.

President-Elect American Carnation Society.

The Exhibition.

The display of carnations at some former exhibitions of this society has been more extensive probably, but never before has there been staged blooms of such uniform excellence while the new varieties were numerous and of high grade. The novelties that attracted most attention were Dorner's Hoosier Lad (No. 175-06) and Bertermann's J. Whitcomb Riley, yellow. Details of the awards and scores will be found elsewhere in this issue. The miscellaneous exhibits included fine vases of White Killarney rose from the F. R. Pierson Co., Tarrytown, N. Y., and the Waban Rose Conservatories, Waban, Mass.

J. A. Peterson, Cincinnati, O., made a fine display of Dracæna terminalis, Begonia President Taft and cyclamens. H. W. Rieman, Indianapolis, exhibited fine cyclamens, Primula obconica and miscellaneous plants. A. Wiegand & Sons, Indianapolis, made an extensive display of artistic cut flowers and plant baskets. Weiland & Olinger, New Castle, Ind., showed roses and miscellaneous cut flowers. Alfred Pahud, Indianapolis, showed double poinsettias in excellent condition for this time of year. Bertermann Bros., Indianapolis, staged a nice lot of Adiantum Farleyense.

Kroeschell Bros. Co., Chicago, was on hand with a model of its hot water boiler. The Morehead Mfg. Co., Detroit, Mich., showed its steam trap. The

Pulverized Manure Co., Chicago, displayed its Wizard manures. The Advance Co., Richmond, Ind., exhibited ventilating apparatus. A. L. Randall Co., Chicago, showed supplies.

The judges were: Wm. Nicholson, W. N. Rudd, Peter Fisher, S. S. Pennock, Eugene Dailledouze, and Fred Burki. The German house has one of the best halls in the country for an exhibition of this character, cool and well ventilated. And both the hall itself and lobby leading to it were tastefully decorated with wild smilax and foliage plants.

Thursday's Proceedings.

At Thursday morning's session W. N. Rudd brought up the matter of awarding the society's gold medal to varieties scoring a given number of points rather than the best variety exhibited, and on his motion it was decided that hereafter varieties exhibited for the gold medal must score 90 points before they can be given that award. On the motion of F. R. Pierson the scale for the silver medal was fixed at 88 points and a third motion made the requirements for the bronze medal 86 points. The report of the judges was then adopted. H. B. Dorner followed with his paper and Pittsburg was chosen as the next meeting place on Wednesday and Thursday of the last week of January. In the contest for the secretaryship Louis J. Reuter received 20 votes, A. F. J. Baur 35 votes and the latter was declared elected. W. J. Stewart was next called upon for his paper on "Closer Relationship Between the Commission Man, the Retailer and the Grower," which was read. On the motion of J. C. Vaughan, F. R. Pierson, August Poehlmann and the mover of the motion was appointed a committee to draw up resolutions on the death of the late L. E. Marquisee of Syracuse, N. Y. A few items from the question box were then disposed of and the meeting adjourned.

The visiting ladies were entertained at the Majestic theater performance Wednesday afternoon by the Ladies' Society of American Florists, Mesdames. Herr, Vesey, Dailledouze, Rasmussen, Maynard, Miss Meinhardt and Miss Crow attending. In the evening the ladies were the guests of the State Florists' Society at another theater party, with supper at the New Denison hotel, while the gentlemen enjoyed a lunch and smoker at the German house bowling alleys. An elaborate banquet was tendered the visitors at the Columbia club Thursday evening and a trolley car ride to Richmond was planned for Friday morning.

SUCKING PIG CLUB.

The annual dinner of the Sucking Pig club was held at the New Denison hotel Thursday afternoon, January 28. The members present included W. N. Rudd, J. A. Valentine, Geo. Asmus, Fred Meinhardt, Otto Koenig, W. W. Coles and Theo. Miller. Wm. F. Kasting was initiated, while Leonard Kill and E. Hauswirth were expelled.

NATIONAL FLOWER SHOW.

The executive committee of the National Flower Show met at the New Denison hotel January 28, those present being Wm. F. Kasting, J. C. Vaughan, J. A. Valentine, W. N. Rudd, Otto Koenig, August Poehlmann and Geo. Asmus. Final reports were received from the chairmen of the various sub-committees and an additional 10 per cent dividend declared on money actually paid in by guarantors.

President Patten's Address.

We have been already in Indianapolis long enough to learn that we are among indulgent friends. As eighteenth president I also extend to you a welcome and wish you all a prosperous and happy new

A. F. J. Baur, Indianapolis, Ind.
Secretary-Elect American Carnation Society.

year, and a successful convention on this our third visit to Indianapolis. The past year has been a trying one to the florists. The depression in business has laid a heavy hand on many, but the future looks bright. Let us be alert and ready to take advantage of the improvement in business.

J. S. Stuart, Anderson, Ind.
President State Florists' Association of Indiana.

Many new varieties of carnations have been introduced the past season; time will tell how many will prove worthy of perpetuation. Anyone sending out a new variety should exercise due care to have the stock healthy, cuttings good and well rooted. The carnation is still the popular flower and, as our society stands for the advancement of the carnation, continue it so. The raisers of new varieties have made marked improvement, but have not reached perfection yet. I think it is generally understood that this society does not necessarily endorse a variety as a profitable kind to grow commercially, because it has been successful in obtaining a prize.

At the National Flower Show at Chicago last November under the auspices of the Society of American Florists the interest in carnations was indeed manifested by the enthusiasm of the many visitors. This was probably the largest exhibition of carnations at a fall show ever held in the country, and was a credit to the exhibitors. As our conventions are held in different parts of the country, some members lose interest when the conventions are held at a distance and drop out. As our society creates an interest in the carnation and the proceedings at our meetings are quoted over the entire country, every florist receives the benefit to a certain extent, and ought in justice to the society to become a member, even if unable to attend.

CARNATIONS ON CONCRETE BENCHES

Some florists have been growing their carnations on concrete benches; it would be interesting if they would relate their experiences. It probably is economy to build of concrete if the plants do equally as well as on the wooden benches. Many growers have dispensed with the use of bone, and claim that their plants do just as well, if not better. Last year the experiment station at Washington devoted a lot of work to carnations, which was appreciated by all who had the privilege of visiting the greenhouses and listening to Dr. B. T. Galloway, chief of the bureau of plant industry. We might get more good from this bureau if we would try, for the officers are ready to work with us.

POT GROWN CARNATIONS.

What about having pot grown carnations at our exhibitions? This has been called to your attention by former presidents, but we don't seem to make much headway in the matter. I think it would be a good thing for the introducers of a new variety to have a well grown plant in a pot to show with the cut flowers. It certainly would be of interest to intending purchasers. Would it not be well to offer prizes for collections of three or more pot grown carnations, say $10, $6, $4. It would give more material to make an exhibition and tend to create more interest in the divine flower. Pot carnations years ago were quite a source of revenue to the florists.

At the convention of the S. A. F. at Niagara Falls, last August, the Carnation Society voted the sum of $25 to be sent as a premium to the Perpetual Flowering Carnation Society of England. I would suggest that the salary of the secretary be increased if possible. I hope all our members will wear a carnation in memory of the lamented President McKinley, on January 29.

I wish to thank you for the loyal support given me, especially the secretary, Albert M. Herr, the vice-president, A. F. J. Baur, and the directors. The press, which has been so friendly to us, is entitled to all the thanks we can give it. To the members of the local society for the arrangements and details of the exhibition, we are under obligations and grateful to each and every one.

Treasurer Dorner's Report.

The following is Treasurer Dorner's report:

RECEIPTS.

Balance January 24, 1908	$338.05
Cash from Secretary Herr	881.00
Cash from interest	113.07
	$1,332.12

EXPENDITURES.

Paid orders on treasurer	$1,104.54
January 25, 1909, cash on hand	227.58
	$1,332.12

PERMANENT FUND.

Amount reported January 24, 1908	$2,375.31

Secretary Herr's Report.

Your secretary begs leave to report having issued the report of our annual meeting in due time and having mailed the same to all members in good standing. On January 4, the premium list was issued and mailed to all members on our books; this list was made up as per instructions from your board of directors at a meeting held in Washington in January, 1908.

The usual effort was made to secure advertisements for this list by your secretary. A circular letter was sent to every member on our books and about 300 possible advertisers who were not members of the society; this was followed up by a personal letter to 100 or more whom your secretary thought should advertise with us. The result is $105 worth of advertising, not one-fifth enough for the work of solicitation necessary to get it and I again recommend that this part of our premium list be abolished.

An innovation this year was a request made to every member of this society to add to our Class B of named varieties any variety they might want to see inserted, providing they would pay the premiums if any were awarded. This was followed up by an appeal made through the trade papers and the result was one addition, that of Afterglow by R. Witterstaetter, Cincinnati, O. This meager response may have been due to this feature not being properly understood and partly owing to financial depression; at least it is to be hoped that we as individuals will have pride enough in our society to see that this part of our premium list is well filled another year.

Among our members we have 32 who have not paid their dues for 1908 and 41 new members, so that we are gradually gaining in membership, as the list will no doubt be increased considerably at this meeting. There were several deaths during the year but no notice being received by your secretary, no official announcement can be made.

I want to thank the president and vice-president for their assistance during the past year and beg pardon for the few errors that have occurred during the same period. I also want to thank every member of this society for their hearty co-operation during the 14 years I have served them as secretary, and bespeak for my successor the same helpful spirit from them.

This society has advanced the carnation and its methods of culture to somewhere near perfection; to continue its mission it must take up the work of popularizing the flower with the buying public, and, as far as possible, correct the evils and make improvements in the buying and selling end of the business.

We need a secretary who either has ample time of his own to devote to its affairs or sufficient clerical force to have them attend to all of the details between meetings and one to whom the salary is no object for the amount of work done. With me it has been a labor of love for 14 years, years which I can look back over with many pleasant memories and for which I feel amply repaid by the acquaintance of the men I have been working with, and that is all of you, for we have all worked together or we would not be where we are.

But a few years ago, as some of you know, I was bumped pretty hard financially, and as the hardest part of the work of this society extends from November 1, with the soliciting of advertisements, until some time in March with the sending out of the annual report without any intermission, right in my own busy season, it makes too much work for me (work that I could not possibly have given the attention I did had it not been for the kindly assistance of Mrs. Herr), and feeling that I cannot give this work the attention it should have I hereby tender my resignation to take effect at the end of our official year, April 1.

F. E. Dorner, Jr.

Treasurer American Carnation Society.

Producer, Wholesaler and Retailer.

BY WILLIAM J. STEWART.

The topic on which I have been asked to say a few words might easily furnish food for profitable discussion for the time of an entire convention. Briefly stated, I think all will agree that a closer accord and mutual understanding between the representatives of these three interests would greatly conduce to the advantage of the industry as a whole and every individual connected with commercial floriculture. We need not confine our consideration to the carnation industry alone; what we shall deduce applies equally to all. At the start we might ask ourselves, first—whether our industry is enjoying a reasonable prosperity, is or is not returning to those who labor in its various departments a fair recompense for the effort expended. If not, where shall we look for the cause and what can we apply as a remedy?

The business which is under consideration is one of recent development, rapidly increasing in importance and influence and now involving many direct and allied interests. It is not surprising that new phases hitherto unforeseen are constantly intruding themselves. We find in the ranks many who started when its problems were simple, its operations some-

MODERN METHODS NEEDED.

what primitive and its profits large in proportion to the investment. It is only natural that we should here encounter a sentiment reluctant to acknowledge that former conditions can never be restored and well-intrenched convictions with resultant prejudices as to the supposed causes contributing to present grievances. All this is inimical to the conciliatory, co-operative spirit which the interdependence of the different interests makes so desirable.

On the other hand the inherent prin-

PIERSON'S NEW SPORT OF WINSOR.

Flesh Pink, Brighter Than Enchantress, Otherwise Like Winsor.

CARNATION PIERSON'S PINK NO. 50, ACTUAL SIZE.

ciple of progress demands that as our business assumes a magnitude which makes modern mercantile methods essential to its best success we should fit ourselves to so conduct it, regardless of any preconceived views and cherished prejudices which may stand in the way. According as we are willing to so fit ourselves and encourage the same in our auxiliaries will the foundations of our industry be strengthened, its dignity upheld and its permanency assured as an avocation universally respected and honored.

Looking at the commercial horticultural industry as comprising the three distinct divisions mentioned in the title of this paper we may state as a self-evident proposition that any interruption of the prosperity of one department must eventually react directly or indirectly on all the others, and the misfortune of one should therefore be the concern of all. Following out this thought a first requisite in the movement towards a better understanding and the benefits which may be expected to follow is the recognition by each department of the indispensability of the other.

"I care for nobody, no, not I,
If nobody cares for me"

is not the sort of sentiment that will bring either emolument or credit to either.

With the wholesale growers' first and greatest obligation—that of producing good and acceptable material—this paper does not concern itself. We shall assume that the grower is doing this part well and assent also to the proposition that, under conditions as they now exist, he has all he can attend to. If, however, the product is not well sold and the money well collected it matters little how well it may have been grown and so here we come to the problem which presses most urgently upon us today. When the production outstrips the demand then are the highest qualifications of the marketing forces put to the test. You growers who make up the bulk of the membership of this organization know something of the bitterness of disappointment as you have seen your product, under the slightest provocation of sunlight and crop, piled up unsold in the wholesale markets or condemned to the alternative of being proclaimed by a "hole-in-the-wall" shouter at "ten for a nickel," while perhaps you read in the trade papers of a scarcity and unsupplied demand a couple of hundred miles away. You are justified in asking "Can't this be helped? What is it that stands between the flower and the public?" But instead of asking of the wind or of your brother grower would it not be well to call in the other members of the family—the wholesaler and the retailer—and reason together? The subject is one which will tax the combined capabilities of all.

OBJECTS OF THE SOCIETY.

In the meeting for organization of this society at Philadelphia 18 years ago, among the objects of the organization as set forth by the committee on resolutions were the following: "To increase general interest in the cultivation and consumption of the carnation; to improve the methods of cultivation and the methods of placing it on the market; to increase its use as a decorative flower." Do the records of the society show that these two propositions have been followed up as of equal importance or that one has been allowed to overshadow the other?

Our worthy president in asking me to prepare this paper, writes, "You have been through the mill, so I think you might give us a few suggestions." Consulting the dictionary, I find the word "mill" defined as "a machine in which substances are ground"; "a prize fight." The president evidently had in mind my connection with the flower commission business in the long, long ago. From my observation I should say that the commission method of marketing flowers was still holding its own all right, although proof is not wanting to indicate that the sentiment among some of the best informed commission dealers seems to favor a system of direct outright purchases from the wholesale grower. In any event the vital interests of grower and wholesaler demand that the wholesale dealer should at all times have exact information from the grower as to crops present

VARIEGATED CARNATION BAY STATE, BY ARTHUR ROPER, TEWKSBURY, MASS.

Winner of American Carnation Society's Gold Medal at Indianapolis.

and prospective and a strict compliance with his wishes as to time and manner of shipment. It is the wholesaler's privilege and duty to concern himself in the matters which affect the welfare of his grower, advise him as to ways and means whereby he may increase his income, post him as to the movements and tendencies of the market as discerned by the man

CARNATION WHITE PERFECTION.

Growing at the Chicago Carnation Co.'s Establishment, Joliet, Ill.

at the front, keep the scouts busy and do something more than sell. If he is incapable of all this he may be "in the right church" but is certainly "in the wrong pew."

ALL DEPARTMENTS INTERDEPENDENT.

The grower should have from his wholesaler unquestioned assurance of financial responsibility. I sometimes think the growers as a class have been remarkably trusting and generous in this latter respect to salesmen of all kinds but whether it is good business is a different question and, as before intimated, hardly in harmony with accepted commercial practice which demands that the money from the sale of flowers should pass promptly from the consumer through the medium of retailer and wholesaler to the grower and with equal celerity from the latter to those who supply and serve him. In no respect are the various departments of the trade more closely interdependent and in none is reform more urgently needed than in this matter of credits and accountability.

As to the retailer he should never forget that the producer of the stock which he must have, if he is to continue in business, is entitled to a fair return and the means of placing his business in a position of honor and good repute. It is natural to want to buy as cheap as possible but the disposition to beat down wholesale values regardless of the possibilities of ruin and discouragement that may follow should be looked upon with disapproval by all well-wishers of the floral industry. In conclusion, let none of us be "content with knowledge sufficient for the present need." The business with which our fortunes are linked is only in course of development and to keep pace with its growth and its emergencies requires the best combined thought you can give to it. Mutual respect and mutual toleration are good qualities to cultivate. Our peace of mind, our business future and, last but not least, our pocket books, will all share in the prosperity following upon a wise discernment of the close relationship between producer, wholesaler and retailer.

Report of the Judges

CLASS A—VASES OF ONE HUNDRED BLOOMS.

White.—Strafford Flower Farms, Strafford, Pa., first with Lady Bountiful; the E. G. Hill Co., Richmond, Ind., second with White Enchantress.

Flesh pink, being those of a flesh or salmon color.—F. Dorner & Sons, Co., Lafayette, Ind., first, with Pink Delight; Chicago Carnation Co., Joliet, Ill., second, with Enchantress.

Light pink, being those lighter shades, lighter than Lawson.—F. Dorner & Sons Co., first, with Winona; A. C. Brown, Springfield, Ill., with Sangamon.

Dark pink, deeper than Lawson.—E. G. Hill Co., first, with Afterglow; R. Witterstaetter, Cincinnati, O., second, with Afterglow.

Red or carmine, including all shades that cannot be classed as scarlet or cardinal.—Bassett & Washburn, Chicago, first, with O. P. Bassett; Chicago Carnation Co. second, with Beacon.

Scarlet or cardinal.—F. R. Pierson Co., Tarrytown on Hudson, N. Y., first, with Victory; E. G. Hill Co., second.

Maroon, covering shades not known, as crimson.—F. R. Pierson Co. first, with Seedling No. 60; W. W. Coles, Kokomo, Ind., second, with Mrs. W. W. Coles.

Yellow or yellow variegated.—Bertermann Bros. Co., Indianapolis, first, with J. Whitcomb Riley.

Any other color.—H. Weber & Sons Co., Oakland, Md., first, with Toreador.

CLASS B—VASES OF FIFTY BLOOMS.

White Enchantress.—Chicago Carnation Co., first; E. G. Hill Co., second.

White Perfection.—Baur & Smith, Indianapolis, first; Chicago Carnation Co., second.

Any other white.—E. G. Hill Co., first; H. Weber & Sons Co., second.

Enchantress.—Manke Bros., North Milwaukee, Wis., first; Chicago Carnation Co., second.

Any other flesh pink.—Chicago Carnation Co., first, with Melody; W. J. & M. S. Vesey, Fort Wayne, Ind., second, with Pink Lawson.

Winsor.—Chicago Carnation Co., first; Pittsburg Rose & Carnation Co., second.

Welcome.—Chicago Carnation Co., first.

Rose Pink Enchantress.—F. Dorner & Sons Co., first; Weiland & Olinger, New Castle, Ind., second.

Afterglow.—E. G. Hill Co., first; Chicago Carnation Co., second.

Any other light pink.—E. G. Hill Co., first, with Winona; F. Dorner & Sons Co., second, with Winona.

Lawson.—Manke Bros., first; W. J. & M. S. Vesey, second.

Aristocrat.—F. Dorner & Sons Co., first; Chicago Carnation Co., second.

Any other dark pink.—Baur & Smith, first, with Pink Imperial; Chicago Carnation Co., second, with Lawson-Enchantress.

Red Chief.—F. Dorner & Sons Co., first.

Victory—Weiland & Olinger, first; W. J. & M. S. Vesey, second.

Beacon.—Chicago Carnation Co., first; E. G. Hill Co., second.

Any other scarlet.—Chicago Carnation Co., first, with Andrew Carnegie.

M. A. Patten.—A. C. Brown, first; Weiland & Olinger, second.

THE SOCIETY'S MEDALS.

Gold medal for the best vase of 100 blooms, any variety, any color.—Albert Roper, Tewksbury, Mass., with Bay State.

Silver medal for the second best vase.—Dailledouze Bros., Brooklyn, N. Y., with Seedling No. 404.

Bronze medal for the third best vase.—Bassett & Washburn, with O. P. Bassett.

SOCIETY OF AMERICAN FLORISTS MEDALS.

Silver medal for the best vase of 50 blooms of an American-raised variety not yet disseminated.—A. C. Brown, with Superba.

Bronze medal for the second best vase.—Albert Roper, with Bay State.

SPECIAL PRIZES.

The $25 silver cup offered by A. Wiegand & Son, Indianapolis, for the best vase of 100 blooms, one or more varieties, quality, arrangement and general effect to be equally considered, was won by Bertermann Bros.,

The $50 silver cup offered by the State Florists' Association of Indiana for the best vase of 200 blooms in five or more varieties, arrangement and general effect to be considered, was won by the E. G. Hill Co.

Bertermann Bros. Co.'s sweepstake prize of $40 for first, $30 for second, $20 for third and $10 for fourth best vase in Class A for 100 blooms.—E. G. Hill Co., first, with Afterglow; Bassett & Washburn, second, with O. P. Bassett; F. R. Pierson Co., third, with Victory; Stafford Flower Farms, fourth, with Lady Bountiful.

The Indiana Floral Festival Association's prize of $25 in gold for the best vase of 100 blooms, one variety, grown in the state of Indiana, was won by the E. G. Hill Co., with Afterglow.

The $10 prize offered by H. W. Field, Northampton, Mass., for the best vase of 50 blooms of President Seelye, was won by the F. R. Pierson Co.

CERTIFICATES OF MERIT.

The following points were awarded to the respective varieties, 85 points being necessary to secure the certificate of merit:

Shasta, exhibited by Baur & Smith, 89 points.

J. Whitcomb Riley, exhibited by Bertermann Bros., 86 points.

Sangamon, exhibited by A. C. Brown, 85 points.

Sport of White Lawson, exhibited by A. C. Brown, 75 points.

Lucille, exhibited by the Highland Park Greenhouses, Highland Park, Ill., 68 points.

CARNATION ROSE PINK ENCHANTRESS.

Growing at the Chicago Carnation Co.'s Establishment, Joliet Ill.

CARNATION MARCHIONESS, SHOWING THE GROWING PLANTS.

Georgia, exhibited by J. D. Cockcroft, Northport, L. I., N. Y., 75 points.

Dark Sport of Winsor, exhibited by F. R. Pierson Co., 85 points.

Seedling No. 60, exhibited by F. R. Pierson Co., 85 points.

Seedling No. 30, exhibited by F. R. Pierson Co., 86 points.

Seedling No. 108, exhibited by N. Zwiefel, North Milwaukee, Wis., 86 points.

Seedling No. 50, exhibited by F. R. Pierson Co., 78 points.

Seedling No. 7506, exhibited by F. Dorner & Sons Co., 90 points.

Governor Deneen, exhibited by A. C. Brown, 82 points.

Superba, exhibited by A. C. Brown, 88 points.

PRELIMINARY CERTIFICATES.

To be competed for by two-year-old seedlings, 12 blooms or more to be shown:

Mrs. Walter W. Coles, exhibited by W. W. Coles, 82 points.

Admiration, exhibited by the Chas. Knopf Floral Co., Richmond, Ind., 85 points.

Seedling No. 511, exhibited by the E. G. Hill Co., 87 points.

Seedling No. 280, exhibited by A. C. Brown, 75 points.

Seedling No. 228, exhibited by N. Zwiefel, 81 points.

Seedling No. 406, exhibited by the E. G. Hill Co., 88 points.

Seedling No. 235, exhibited by the E. G. Hill Co., 85 points.

Visitors.

Gus Adrian, Cincinnati, O.
H. M. Altick, Dayton, O.
J. F. Ammann, Edwardsville, Ill.
Geo. Asmus, Chicago.
Fritz Bahr, Highland Park, Ill.
Harry Balsley, Detroit, Mich.
M. Barker, Chicago.
H. Bates, Cleveland, O.
A. F. J. Baur, Indianapolis.
A. E. Becker, Cincinnati, O.
H. G. Berning and wife, St. Louis, Mo.
G. E. Berthold, New Castle, Ind.
E. C. Bissell, Marion, Ind.
Geo. H. Blackman, Evansville, Ind.
A. C. Brown, Springfield, Ill.
Fred Burki, Pittsburg, Pa.
S. S. Butterfield, New York.
P. D. Casey, Chicago.
J. D. Cockcroft, Northport, L. I. N. Y.
J. T. Cokely, Scranton, Pa.
W. W. Coles, wife and daughter, Kokomo, Ind.
Miss Elsie Coles, Kokomo, Ind.
J. T. Conger, Cincinnati, O.
Geo. D. Cook, Crawfordsville, Ind.
C. E. Critchell, Cincinnati, O.
Eugene Dailledouze, Brooklyn, N. Y.
Fred Dorner, Sr., Lafayette, Ind.
Fred Dorner, Jr., Lafayette, Ind.
G. Dysinger, Ionia Pottery Co., Ionia, Mich.
W. H. Elverson, New Brighton, Pa.
J. A. Ernsberger, Celina, O.
J. A. Evans, Richmond, Ind.
Peter Fisher, Ellis, Mass.
Stanley R. Fisher, Ellis, Mass.
J. R. Fotheringham, Tarrytown, N. Y.
Emil Fransen, Scheiden & Schoos, Chicago.
C. H. Frey, Lincoln, Neb.
I. F. Frey, Lincoln, Neb.
Geo. M. Garland, Des Plaines, Ill.
E. G. Gillett, Cincinnati, O.
E. T. Grave, Richmond, Ind.
C. E. Gullett, Lincoln, Ill.
Carl Hagenburger, Mentor, O.
Harry Hammond, Cleveland, O.
C. F. Harrison, Pulverized Manure Co., Chicago.
J. A. E. Haugh, Anderson, Ind.
Jas. W. Heacock, Philadelphia, Pa.
Jos. Heacock, Philadelphia, Pa.
Adam Heitz, Louisville, Ky.
Herbert Heller, New Castle, Ind.
Myer Heller, New Castle, Ind.
B. F. Hensley, Knightstown, Ind.
Albert M. Herr and wife, Lancaster, Pa.
A. T. Hey, of Vaughan's Seed Store, Chicago.
E. G. Hill, Richmond, Ind.
Jos. Hill, Richmond, Ind.
A. Hoffmeister, Cincinnati, O.
H. W. Howard, Chicago.
W. D. Howard, Milford, Mass.
Robt. Jameson, Philadelphia, Pa.
Frank Johnson, A. L. Randall Co., Chicago.
Chas. M. Jones, Columbus, O.
Robt. Jones, Morehead Mfg. Co., Detroit, Mich.
Wm. F. Kasting, Buffalo, N. Y.
Chas. Knopf, Richmond, Ind.
Louis Knopf and wife.
Jos. Kohout, Hinsdale, Ill.
E. F. Korosky, John C. Moninger Co., Chicago.
F. Lautenschlager, Kroeschell Bros. Co., Chicago.
Fred Lemon, Richmond, Ind.
A. F. Longren, Des Plaines, Ill.
Wm. Manke, North Milwaukee, Wis.
W. Mann, Louisville, Ky.
Victor Mathis, Louisville, Ky.
C. H. Maynard and wife, Detroit, Mich.
Fred Meinhardt, St. Louis, Mo.
Miss Tillie Meinhardt, St. Louis, Mo.
R. A. McKeand, Marion, Ind.
Oliver A. Munk, Columbus, O.
E. Murchie, Sharon, Pa.
Chas. Murphy, Cincinnati, O.
Louis Murphy, Cincinnati, O.
Wm. Murphy, Cincinnati, O.
Wm. Nicholson, Framingham, Mass.
Peter Olsem, Joliet, Ill.
W. A. Partridge, Cincinnati, O.
W. K. Partridge, Cincinnati, O.
M. A. Patten, Tewksbury, Mass.
E. Allan Peirce, Waltham, Mass.
S. S. Pennock, Philadelphia, Pa.
J. H. Pepper, Chicago.
J. A. Peterson, Cincinnati, O.
F. R. Pierson, Tarrytown, N. Y.
Aug. Poehlmann, Chicago.
C. Pruner, E. H. Hunt, Chicago.
A. T. Pyfer, Chicago Carnation Co., Joliet, Ill.
Anders Rasmussen and wife, New Albany, Ind.
W. H. Reiman, Vincennes, Ind.
A. S. Rett, Crawfordsville, Ind.
L. J. Reuter, Westerly, R. I.
J. W. Rodgers, Cincinnati, O.
H. D. Rohrer, Lancaster, Pa.
Albert Roper, Tewksbury, Mass.
W. N. Rudd, Morgan Park, Ill.
Max Rudolph, Cincinnati, O.
Jacob Schulz, Louisville, Ky.
Chas. Schwake, Chas. F. Meyer, New York.
Wm. Schwan, Cincinnati, O.
H. Schwarz, Cincinnati, O.
S. S. Skidelsky, Philadelphia, Pa.
Harry Snape, Tarrytown, N. Y.
A. P. Smith, Piqua, O.
Henry Smith, Grand Rapids, Mich.
H. P. Smith and wife, Pittsburg, Pa.
W. J. Stewart, Boston, Mass.
Chas. S. Strout, Biddeford, Me.
Wm. Swayne, Kennett Square, Pa.
A. M. Troxell, Greencastle, Ind.
J. A. Valentine, Denver, Colo.
J. C. Vaughan, Chicago.
Judge Vesey, Fort Wayne, Ind.
Mrs. Vesey, Fort Wayne, Ind.
A. Von Zonneveld, Sassenheim, Holland.
Elmer C. Walker, Youngstown, O.
John Walker, Youngstown, O.
Lee Walker, Louisville, Ky.
W. Walker, Louisville, Ky.
C. L. Washburn, Chicago.
T. E. Waters, Chicago.
F. C. Weber, St. Louis, Mo.
Wm. Weber, Oakland, Md.
P. Welch, Boston, Mass.
Peter Weiland, New Castle, Ind.
H. F. Winter, Charleston, W. Va.
E. F. Winterson, Chicago.
J. O. Wintow, Knightstown, Ind.
R. Witterstaetter, Cincinnati, O.
R. S. Woodyard, Sharp, Partridge & Co., Chi'go.
N. Zweifel, Milwaukee, Wis.

Convention Notes.

Mrs. Albert M. Herr has rendered her husband much valued assistance during his 14 years incumbency as secretary.

CARNATION RUBY.

J. Whitcomb Riley was among the missing but had a good representative in the fine new yellow carnation which Bertermann Bros. have named after him.

J. D. Carmody was much inquired about but will doubtless have much that is interesting to tell us about the fair ones of Mexico, later.

The secretary stated that some 40 names have been added to the membership this year, about 25 at the Indianapolis meeting.

The Pennsylvania railroad will not tolerate the innocent game of solitaire in its smoking compartments—remember that.

The closing of the race tracks seems to have had a baneful influence even on the sweepstake in flower shows.

Bertermann Bros. received an order from England for 5,000 J. Whitcomb Riley during the convention.

Hoosier hospitality is unbounded, particularly where the ladies are concerned.

Albert M. Herr was elected president by standing vote.

Phil Foley was among the absentees.

THE CARNATION.

JAMES D. COCKCROFT of Northport, N. Y., was one of the passengers in the ill-fated steamship, Republic. He had, says the Chicago Tribune, a couple of little electric dark lanterns in his valise. He used them to such good purpose that he found his money and a ring which had been tossed to the floor. Other passengers lighted candles and by the use of the dim light found their pocketbooks and jewel bags. Others, in the few minutes they had, struck matches, and in the flickers of light gathered up their most valuable trinkets.

Carnation May Day.

The illustration of May Day on page 10 gives a good idea of its fine build and handsome petalage while its other good qualities include an exquisite shade of satin pink, the flowers have a fine stem, strong calyx, and it is one of the most free growing and prolific flowering varieties in cultivation, from 20 to 24 flowering shoots being found on a plant. It is also a splendid keeper and shipper and is always anxiously sought by the trade. This fine variety was raised, and has been grown for the last three years by E. T. Grave of Richmond, Ind., and is being disseminated this season by him and the E. G. Hill Co. There is no doubt it will meet with a good reception from growers and become a very popular variety on account of its many good points.

Carnation Dorothy Gordon.

The carnation figured on page 8, Dorothy Gordon, is a cross between Lawson and Enchantress and was raised and is being grown by Joseph Heacock Co., Wyncote, Pa. The house figured was planted in August of last year and the photograph was taken in November, the plants being one foot apart in the rows. It can be easily seen what a strong grower it is and Messrs. Heacock say it is the healthiest and most productive variety they have ever handled. The flowers are uniformly good, about three inches in diameter and they sold around the recent holidays at $12 per 100. The color is similar to that of Rose Pink Enchantress. The stock at Wyncote consists of 6,000 plants all in the best of condition. It was awarded a certificate of merit at the Washington meeting of the American Carnation Society last year, scoring 86 points. The firm has not decided yet, but may disseminate Dorothy Gordon in the spring of 1910.

Carnation Cuttings Unsatisfactory.

ED. AMERICAN FLORIST:—

I have put some carnation cuttings in the ground in my greenhouse and the last three weeks rusty brown spots have appeared on them. Please tell me what to do with them.

Ohio. L.

There are several carnation diseases which produce brown spots on the foliage. Probably the disease in question is the rust which can be readily distinguished from other diseases by the spots being considerably raised above the surface of the leaves and by their containing a brown powder which will adhere to the fingers when rubbed over them. The carnation rust is a disease which at one time did great damage, but since we have learned to control it, it is no longer much feared.

The proper method of treatment is to keep the air in the houses as dry as possible and to keep the houses well ventilated. When absolutely necessary to syringe, the work should be done on a bright day early in the morning so that the foliage will be thoroughly dry before night. Syringing with Bordeaux mixture, sulphide of potassium, or, in fact, any of the sulphur fungicides, together with the treatment mentioned above, should very soon rid the plants of the trouble. The Bordeaux mixture can be bought in paste form with instructions for applying it, and as it is beneficial in nearly all the diseases of the plant caused by fungi, it is a good thing to use. It discolors the foliage somewhat, temporarily, and must not be allowed to touch the flowers. The sulphide of potassium, often called liver of sulphur, can be obtained at any drug store and is very simple to use and quite effective. Two ounces of this substance dissolved in an ordinary bucket of rain water and syringed on the foliage is generally strong enough.

If the plants are badly affected the application must be repeated every few days for some weeks. Of course no application will remove the spots when they have once formed and the affected foliage will always be marked. The use of the fungicide is to kill the spores—the little brown powder before mentioned—and prevent further infection of the plant. The pulling off and burning of the worst infected leaves is always advisable. "L" should understand that in all cases of plant disease careful attention to watering, ventilation and temperature is the main thing and no amount of fungicide will produce good results or cure disease when the growing conditions are not right.

W. N. RUDD.

CARNATION MARCHIONESS.

Originated by the Late L. E. Marquisee, Now Offered by Bellamy Bros., Syracuse, N. Y.

CHRYSANTHEMUMS

Private Shows and Varieties.

Those giving chrysanthemum shows annually and inviting their patrons and friends, should not lose sight of the fact that it is the great diversity in color and form which nature has bestowed upon the chrysanthemum which makes it first and foremost as an exhibition flower. In preparing for next fall's display do not be confined to strictly commercial varieties. A few massive exhibition blooms of the highest quality, sprays of pompons, singles and anemone pompons and a few of the odd and curious forms like the large anemones and hairy varieties, in fact any kinds that are peculiarly striking, are of the greatest interest to the public. Your patrons are doting on this trip to the greenhouse or store as one of the pleasant occasions of the season, so do not let curtailment in variety impair your display. A few well grown flowers of Yellow Eaton displayed with the pompon, Baby, may be arranged in same vase, or separately if in close proximity, and labeled "the big and little of it."

Grow the single chrysanthemum Indicum (Golden chain) which will reach six to eight feet and have a few Mizpah or some of the newer ones which do not exceed 12 inches in height to represent the long and short of the family or a few sprays of Indicum labeled, "As nature made me," and a vase of the best exhibition sorts. "As man has made me." This will lead up to conversation on hybridization and, if not conversant on the subject, get posted before hand. All such displays are of intense interest to the public. Twenty-five varieties of the kinds referred to judiciously selected and well grown will add greatly to the effectiveness of Mr. Forethought's next show. It is true the sales of these odd varieties may not in themselves give immediate returns to warrant the outlay. The chief motive for such exhibitions should be to please the visiting public, and if this is done to their entire satisfaction the remunerative end of the game will surely manifest itself—it not today—tomorrow.

It may not be out of place to make a few comments and recapitulations of the Chrysanthemum Review for 1908 as presented by your New York contemporary January 16. These reports are of great interest to those who keep their fingers on the pulse of the trade. While many other varieties no doubt reach the markets of this country, this report by the 26 cities shows the most popular kinds grown in quantity. It mentions some 120 varieties of which 40 are white, 39 yellow, 30 pink, 8 red and bronze. To ascertain the most prominent of these it is necessary to find how often these varieties are mentioned in the reports of the 26 cities and considering only those which are mentioned 10 or more times we find eight white appear as follows: Geo. S. Kalb, 10, October Frost, 13, Mlle. Jeanne Nonin, 14, Miss Alice Byron, 15, Timothy Eaton, 17, Polly Rose and W. H. Chadwick, 18, Ivory, 19. Of the 39 yellows six were mentioned over 10 times and are Golden Glow, 11, Golden Chadwick, 12, Monrovia and Golden Wedding, 14, Robert Halliday, 15, and Major Bonnaffon, 19. Only three of the 30 pinks stood the test, Maud Dean, 14, Dr. Enguehard, 15, Glory of Pacific, 19.

These figures may not be absolutely accurate but they are near enough to show those varieties which are looked upon as being best for the commercial grower. This summary also endorses the opinion of the writer as to the merits of American sorts for this purpose. Out of the 17 thus approved, 13 are of American origin. We predict several varieties which were not prominent in the review will be strong factors in the 1909 report.

There are several varieties which were not as conspicuous as they deserve, namely Golden Eagle, Crocus, Pacific Supreme, White Cloud and Henry Sinclair. The first four are comparatively new but the last mentioned was sent out by John N. May in 1903, and it has always been a mystery to us why it is not better known. It is a very nice yellow of a medium shade, ready October 25, with fine stem and foliage and dwarf habit. There is yet time for it to come into general favor.

The three most prominent varieties are Ivory sent out by H. Waterer and raised by W. K. Harris in 1889, Major Bonnaffon raised and disseminated by F. Dorner & Son in 1894, and Glory of Pacific, a California seedling by H. Yashiike who was also the disseminator in 1895, although we believe the E. G. Hill Co.'s efforts, a year or so later, were more effective in its introduction than those of the originator. We notice one of the reports says Dr. Enguehard is not worth growing and yet 15 others include it as one of the good kinds. It looks as though it was up to our genial friend Gillett to tell us what grudge he has against the doctor.

ELMER D. SMITH.

Carnation Dorothy Gordon.
From Joseph Heacock Co., Wyncote, Pa.

Flowers Decreasing in Size.

ED. AMERICAN FLORIST:—

As the chrysanthemum season is over we would appreciate it if some of your readers could tell us why the size of our chrysanthemums decreased. Does it make any difference whether they are planted in raised benches or in well drained solid beds? We had the same varieties such as Mrs. Robinson, T. Eaton, Alice Byron, W. H. Chadwick and Bonnaffon in raised benches four seasons ago and had fine blooms and with the same treatment in solid benches for the last three seasons have lost considerable in size, only a small percentage giving good blooms. We are growing one and two to the plant about eight inches each way, the soil is sandy, well drained and in proper condition in our estimation. The foliage was of healthy appearance, rich, but not overfed, but the blooms did not come to their former size, the later ones remaining particularly small with the inner petals opening very slowly; the night temperature has been 40° to 50°, somewhat higher during the day; they were housed about September 1. They were also well ventilated night and day. The only reason we can think of is the solid benches and we are contemplating raising the same for the

CARNATION DOROTHY GORDON.
Growing at the Joseph Heacock Co.'s Establishment, Wyncote, Pa.

next season. If you could give us some advice through your columns you would greatly oblige

F. B.

We have never used solid beds for chrysanthemums and hence cannot advise "F. B." from our own experience. Those we have seen growing under such conditions have not been up to the standard either in size or finish. When the roots are allowed full freedom and ramble through the soil the results are not as satisfactory as where they are confined to a limited space. It is for this reason that many growing for exhibition, firm the soil so thoroughly, and others divide the benches in small compartments to prevent undue expansion of the roots. Sandy soil can scarcely be made too firm. We would also suggest housing or planting earlier than September 1. If lifted from the open or grown in pots outside would perfer them benched by August 1 in as shallow soil as permissible, so that the roots will penetrate all parts before the buds are formed. If the stock is grown in pots outside and September 1 is as early as it can be housed, we would prefer to plunge, rather than remove the pots. Under such conditions the plants would be established at once and be in better condition to receive liquid foods.

ELMER D. SMITH.

Growing Cinerarias.

ED AMERICAN FLORIST:—

As I am inexperienced in cineraria growing kindly tell me should they be disbudded, how often to feed, with what, and should they be watered overhead? Mine look all right only once in a while some hang their heads and wilt very badly. Is this caused by draft or too much heat? They are in a house with no heat, about 30° to 40° at night, 60° to 80° by day. Quite a few leaves get spotted and rot. Should the glass be shaded real heavy when blooming to preserve color?

California. C. F. G.

Disbudding is unnecessary with ordianary plants. Specialists who grow the very large flowered highly bred varieties for exhibition thin the flowers a little with grape scissors to insure the largest flowers it is possible to get. Feeding is only necessary when the plants are well rooted and established in their flowering pots when it may be given. Any good commercial fertilizer will do for them and if changed occasionally to soot water this will help the foliage. Understand though that in no case is feeding beneficial unless the plants have a firm hold on their compost and are healthy. Light dewings overhead are beneficial during bright warm weather but heavy overhead waterings are dangerous, ruining the foliage and flowers. Never spray at all after the flower heads are well up and showing any color. The wilting you speak of is probably caused by a lack of air and too much heat though as you say the house goes to 30° at night probably some of the plants have been frozen. Plants frozen never regain their proper stiffness though others wilted from heat or lack of air may do so. The proper treatment for these plants is a constantly cool and moderately moist atmosphere with abundance of air at all times. In your climate shading may be necessary even at this early date. Later it certainly will be. Shade at any time if the sun causes the leaves to wilt.

CARNATION SYLVIA.

Pink Seedling From Lawson by the E. G. Hill Co., Richmond, Ind.

HARDY HERBACEOUS PERENNIALS.

Plants That Bloom First Year From Seeds.

Now that florists' and seedmen's catalogues are rapidly coming to hand and are being eagerly scanned over and lists of spring requirements jotted down it may be interesting to many who do a small jobbing trade in hardy plants to know that a large number of them bloom the first year from seed if sown early and kept on growing without serious check. One of the best batches of Stokesia cyanea I ever saw was grown from seed sown in a greenhouse in January and then once pricked off into flats and from these transplanted into the open ground as soon as warm weather permitted. From the latter part of July until severe freezing weather in late November, these made the most conspicuous bed of hardy plants I ever saw in the fall. Hardy asters of the Novæ Anglæ type are especially showy and interesting in the late fall months from plants raised from seed sown in a cold frame in late March or early April and sash placed over them until germination takes place when they may be taken from these beds and transplanted to another frame an inch or so apart. Or they may, when large enough, be placed where they are required to bloom and if kept free and clean from weeds and thoroughly cultivated they grow much stronger and bloom much later than those grown from clumps or divisions. This type of aster I have frequently noticed grown in a wild state in pasture lands and blooming beautifully in November, but in a very much dwarfed condition owing to its having been cut down very closely during haying time. Here a lesson might be learned from an observant mind that if similar treatment were accorded to many of our early fall flowering plants we might very much prolong their blooming period.

Digitalis ambigua (grandiflora); Dianthus latifolius and its varieties. Erigeron Mexicanus and Erigeron Villarsii; the various fall flowering heleniums; Pyrethrum ulignosum leucanthemum Nipponicum; Linum perenne and L. Austriacum; the various hardy lobelias as L. cardinalis, L. Rivourei, L. syphilitica and the red leaved L. Queen Victoria; Lychnis Haageana, L. fulgens and L. Sieboldi. The various malvas of the moschata type, platycodons in variety, Rudbeckia hirta and H. fulgida Delphinum formosum, D. elatum, D. hybridum, D. Chinense and Chinense album, all do exceedingly well and bloom profusely, wonderfully extending the blooming season. If this fact was more generally recognized or known our hardy borders would not show so many bare spots in late fall as they do now.

The above plants have all flowered very profusely with me under ordinary treatment and the following list has also bloomed more or less profusely according to season; Alstrœmeria Chiliensis, sown early in open ground and left undisturbed until dug for winter protection as this

is not altogether reliably hardy; the same remark applies to Valeriana coccinea, V. alba and platycodons. If the latter are given good attention and well protected against freezings and thawings they will prove satisfactorily hardy. Anchusa angustifolia makes a rapid growth sown outside in nursery rows and blooms very freely; the same may be said of Lupinus perennis and several others whilst the following campanulas left standing until fall when they all make nice stock for potting for spring sales. The largest may even be selected with good success for fall or very early spring sales. No doubt there may be many others that will bloom the first season from seed as for instance, Gaillardia grandiflora, but the above list all bloomed as indicated with the writer in one season.

HERBERT GREENSMITH.

CARNATION MAY DAY.

Raised by E. T. Grave, Richmond, Ind. Rose Pink.

THE RETAIL TRADE

A CLEAN and well arranged window, with fresh stock well displayed and frequently changed, is the best drummer a retailer can have.

THE Japanese air plant has proved a good seller but the line of talk handed out by some retailers as to its "growing without water," etc., probably deceives only a very few.

DESIGNS of fraternal order emblems usually look best when the pattern is of one color and picked out around the edge with another, or white. They are also best shown on easels in a general way.

THE retailers of Lowell, Mass., are having a lively time over Sunday closing. We shall probably soon get down to the level of the English borough where a tobacconist, for more years than we care to remember, has come up on Monday, paid his five-shilling fine and laughed in his sleeve at his law-abiding competitors who lose the lucrative Sunday business.

Retailers Profit on Cut Flowers.

A paper read by O. J. Olson before the Minnesota State Florists' Association at St. Paul, January 19.

When I gave Mr. Dysinger the title of the subject which I promised to read tonight, I did so on the spur of the moment, and before I had given it any thought whatever. When I realized what a job I had imposed upon myself, it was too late to change my subject as the notices of our meeting had already been mailed, but having put my foot into it, I will try to give my views of the matter as fully as I can. The retailer's profit in flowers does not convey what I really had in mind to say. What the retailer's legitimate profit ought to be, was

have bloomed with me the first year from seed sown in the greenhouse late in January pricked off into boxes and transplanted to nursery rows or beds: C. Carpatica, C. cæspitosa, C. rhomboidea and C. elegante; Dianthus plumosus and D. Scoticus have bloomed sparingly and some of the largest flowers of Chrysanthemum maximum type I ever grew were from early sown seed treated as described above. This was still blooming when severe wintry weather cut them off; Eupatorium serotinum, E. cannabinum as well as Kuhnia eupatorioides, a near relation of the above, also flowered profusely, and a beautiful form sent out by V. Lemoine some years ago as E. Kirilowi from central Asia. This was a neat growing, attractive plant devoid of the coarseness usually possessed by this family but too tender for our climate though flowering freely from spring-sown seed. Pentstemon gentianoides and P. pulchellus, Saponaria Caucasica fl. pl. Verbena montana and various veronicas also do exceedingly well and flower freely from early greenhouse sown seed. Catananche bicolor and C. coerulea, Althea ficifolia and A. Narbonense, Cedronella cana, Asclepias tuberosa the various hardy asters; Galega officinalis and its white variety Hibiscus moscheutos, H. militaris Heliopsis Pitcheriana, Heliopsis lævis, Myosotis palustrus semperflorens, Salvia azurea and Callirrhoe involucrata all flower from seed sown even in nursery rows in late March or early April and

CARNATION LUCILLE.

Originated at Highland Park Greenhouses, Highland Park, Ill.

what I wanted to say, and I will make an effort to impart to you my ideas of the subject, in part, as well as I know how.

Very few of us are realizing as much out of the flower business as we should, compared with others engaged in other lines of business who haven't the risks of perishable goods and the worries and trials the average florist has to contend with. Every necessity as well as luxury has advanced, and in some instances, nearly doubled in cost in the past few years, and still I cannot see where there has been any advance in the selling price of cut flowers, commensurate with the constant improvement in the quality of our flowers today.

INCREASED WORKING COSTS.

To make my meaning plain, I maintain that we are selling a better grade of flowers now for the same money and in some instances for less, even than we did formerly when goods in daily use outside of our line, were sold for anywhere from 25 to 50 per cent less than they are now. In other words, we are not keeping up with the times, and reaping the benefits of good times, if I may put it that way. We have the increased cost of labor, the employe who is demanding more wages, and justly so, as I believe there is no trade where help is so poorly paid, when we take into consideration the long hours and experience required in first-class help. Of course, we get help that isn't worth any more than they are paid, and sometimes not that, but what I mean is the intelligent and capable kind whom you can give instructions to and feel that whatever is to be done will be done right without the need of worry on your part. We hear of very few employes who are considered capable and competent, either here or elsewhere, who receive more than $20-$25, and lots of them $12-$15 per week, and not for six days' work either, but generally seven, while help in other lines of trade, which requires no more experience and no more intelligence, and who would never think of putting in the time that the florists' business demands are much better paid. This is one of the reasons why first-class help is so scarce in our business. We have the biggest risk of any business that I know of. We all know that one who is careful not to carry a heavy stock, and has a good trade for it, does not run the risk that one who stocks up big in anticipation does. But you have to have the goods to show to do business with when there is business in sight, and it is he that will get to the top first, usually, but calculations in this line do not always turn out right.

MANY RISKS.

There are other risks in handling our goods which are at times beyond our control, all of which help to reduce profits, among which I might mention freezing, bruising and delays in delivering, in which the result is usually a refund to the customer. This, also, calls to mind that in hardly any other business that I know of, does one have to be as prompt and punctual as we have to be. Take for instance a customer who has a party and wants a centerpiece at a certain hour; it won't do to deliver it the day before, or at your convenience, if it is wanted for a stated time. But is must be there at five or six o'clock, or as the customer directs, or you will have trouble on your hands. And, usually, such work comes in bunches and cannot be taken off shelves or counters, and started out, for it requires both time and care to put up flowers in the way people expect nowadays.

NEW CARNATION GEORGIA.

Introduced by James D. Cockeroft, Northport, N. Y.

THE MATTER OF BOXES.

Another item of expense that helps to make profit smaller than formerly, is the manner in which flowers have to be packed and sent out. The boxes cost considerably more than those we used to use in times past. It seems that every customer expects a box, and a fine one at that, no matter how small a purchase he makes. Then we have the lodges who are always after advertising and other favors, who occasionally buy a design, but mostly want about a dollar's worth for 50 cents, for a sick member, delivered in the outskirts of the city, and I have felt lots of times that I would rather give them the purchase without charge than spend the carfare and time delivering them. And then they actually think they are making you rich. We have tried to get away from this, but the best way out of it, it seems to me, would be for us to get together and stick to an agreed policy in dealing with them, and thereby, educate people to the fact that it costs good money to grow flowers and handle them. If some policy of this sort was adhered to by the trade in general, it would add a great deal of diginity to our business and we would be in a better position to make enough profit out of it to make us all happy, and some day ride in automobiles of our own, and be as independent as we see so many others, engaged in other lines of business, are.

I have not mentioned the growers or the wholesale end, but it seems good reason to say that, if the retailers can make more profit than the growers can; also get more for their stock, they should lend their efforts by all fair means to this end. The day may still be far off when dreams of this kind are realized, but I prophesy that it will come when some of us, at least, will enjoy the fruits of our efforts, but not until we make up our minds not to be satisfied with enough profit to squeeze out a meager living and continue in the same rut for the rest of our days. I feel that I am not competent to illustrate the subject and I also plead lack of time for thought to do it justice. I know that there are innumerable other arguments that could be made in support of my contention, but I trust that you will understand my aim is for progress in our business and raising it to a higher standard with enough added profit to enable us to lay away something for a rainy day, at least.

Ice Box Cooling Machine.

ED. AMERICAN FLORIST:—

We are contemplating the erection of two ice boxes in our store, the dimensions of the boxes being 3x9x8 and 5x8x7 feet respectively, to be equipped with an ice machine. We wish some reader would enlighten us on the practicability of such

cooling machines, and what would be the proper temperature of a flower store ice box.

K. F. C.

Replying to "K. F. C." in regard to refrigerating machine, a 1-ton machine should keep the temperature of the proposed boxes at 45° to 52°, which, in my opinion, is right for a flower store box. This machine with storage brine tanks or pans would only have to run four to eight hours out of the 24 with direct expansion. The Brunswick Refrigerating Co., New Brunswick, N. J., puts out the most of the small machines and I think would be glad to furnish estimate and plans.

F. BURKI.

CARNATION CONQUEST, FORMERLY SEEDLING NO. 500.
Growing at the Chicago Carnation Co.'s Establishment, Joliet, Ill.

January Flowers in the New York Stores.

We have grown so accustomed to seeing good plants and flowers about the stores, and tasteful arrangement and decoration is now so common that we are in danger of overlooking some of the good and attractive features of the trade. If there is at the present time, as some claim, a lack of interest on the part of the public in fine horticultural features, we believe that it is but temporary and that soon again the lovers of Flora will return to their own. One is forcibly impressed with the great variety of stock, even in this season of long nights and cloudy days. Orchids are now plentiful and are being well used by the decorators. In some stores, large plants of flowering cattleyas are distributed in a large show window with a plain background of foliage plants, the effect being natural and pleasing. In other instances the plants are placed in moss-covered pots and suspended from the top of the window. A feature of a Broadway store window is a square metal pan with cord or strong ribbon attached to the four corners, and suspended from the top of the window to within two feet of the bottom. The pan is filled with a variety of short stemmed cut flowers; smilax is twined around the cords or ribbon and glasses of cattleyas are attached, one above the other, the result being a fine decoration, almost the entire height of the window. In the sides or wings, glasses of yellow narcissus are arranged in tiers similar to the orchids in the centerpiece.

While an occasional bunch of American Beauty or tea roses is seen in a window decoration for obvious reasons, their use for this purpose is not general. It must be added, however, that the ice-boxes of all well equipped stores show a fine variety of rose stock. Of the pink roses, Killarney is now leading. There are favorable comments heard on both My Maryland and Mrs. Jardine, but there are too few of both on view to form an opinion as to their ultimate future. A feature of the retail stores that cannot be overlooked, is the great bunches of forsythia, flowering quince, almond and deutzia. All these of themselves, when shown in large bunches, make with but few accessories very acceptable and striking decorations.

We have so many good carnations that it may be, as with other good things, we are too much inclined to take them as a matter of course. There is now an abundance of standard varieties and so far as this market is concerned, we think it no injustice to state that the Fisher carnations, meaning Enchantress, its sports and Beacon are at the head of the procession. There are other carnations that are very good and of these Winsor, Victory, Afterglow and White Perfection among others, are all worthy of a place among standard flowers but none of them have attained the widespread popularity that has attended the productions of Peter Fisher. It sometimes appears as though the increase in orchid, rose and gardenia culture and the great advancements in forcing stock, were putting carnations somewhat in the shade, but as a flower for the plain people the carnation is so well established that there need be little fear as to its future.

The winter-flowering sweet peas are now showing good points and must be classed as a staple. The sweet pea can be used in a number of attractive forms and like others of the less pretentious blossoms, it has a well established place in the affections of the public. The growers who make forcing a specialty have got their business to a stage where they can supply lilies and lily of the valley in constant succession. An excellent quality of both stocks is now seen. Within the past few weeks a fair supply of L. rubrum has been seen. While these flowers are not so useful as the white lilies they are novel and attractive and can be used with fine decorative effect. There is an abundance of good lilac and the sight of it is pleasing to the eye, for though blizzards may rage, the sight of a flowering plant or a bunch of lilac, somehow brings up thoughts of sunshine and balmy days.

The tulips, Trumpet Major and Paper White narcissi and hyacinths are now reasonably plentiful and all are to a considerable extent being used in decorative work, though the hyacinth is most useful in funeral work. Freesias are also to be seen, though the best stock is not yet arriving. An excellent quality of mignonette may now be had. There is room for doubt as to whether this stock is as popular as it once was, but there is likely to always be a fair demand for it. Both marguerites and yellow daisies are in considerable quantity, and these are stocks, which if they are not in the aristocratic circle of the flowers, have a never-waning popularity. It goes without saying that there are plenty of violets and many of them are sold. Like the daisies, but to a much greater extent, the violet has a large place in the affections of the people; its popularity may wax and wane but it will always be in the trade.

CARNATION WHITE ENCHANTRESS.
Growing at the Chicago Carnation Co.'s Establishment, Joliet, Ill.

THE VIOLET.

WHITE violets generally like a rather higher temperature than the dark varieties.

KEEP a sharp lookout for the first signs of black fly and fumigate directly it is seen, first gathering all the flowers that are fit.

A NEW single variety exhibited by Chas. A. Black, Hightstown, N. J., at a meeting of the State Horticultural Society, January 7, is very highly spoken of.

Notes from Rhinebeck.

The time is rapidly approaching for the violet to come at its natural season, and it is wise for the grower to be on his guard. The first and main outlook is to see that the plants are kept clean, removing all matured and decayed leaves and watching the temperature. Keep this as near to 40° as possible nights on sunny days; let it run up to 52° with as much ventilation as possible on cloudy or stormy days; keep it at 48° with air on, as it does not pay to force them, as the flowers will come small. When watering it is best to run it in between the plants, but an occasional spraying on clear days is good for the foliage, as washing the leaves will keep down red spider. Shading will be necessary shortly as soon as the sun gets a little stronger.

Cuttings are best made in February, with new small runners coming from the main plant. Regarding feeding the plants at this time of the year I do not believe in it as it is too late to do any good.

Rhinebeck, N. Y. G.

Notes in Season.

At any time now, propagation, by means of the small side shoots that appear around the double violets, may commence. These shoots may be broken off and made into short stubby cuttings, the best place to strike them being on a bench in quite a cool house. These will make fine stock for indoor culture, being first pricked off into flats or on other benches and later planted in the flowering quarters. This treatment is not usually necessary for single varieties. These are freer growing, and ample stock can be kept up by division in the usual way. But it is a good system to follow should it be necessary to work up stock of any particular variety or novelty and nothing is lost by it as it is necessary to take the shoots off anyway. Being small and clean, disease and insects are less likely to be propagated this way than by division.

With the increasing light the flowers will be coming larger and more freely and a little fertilizer will be of advantage. Heavy feeding is not necessary but some good, quick acting manure that will prevent the system of the plants from running down and the production of small poorly colored flowers should be used. With regard to change good guano, soot water and sulphate of ammonia and superphosphate mixed has proven so good that we use no other, but there are doubtless plenty of the proprietary fertilizers equally as good and safer to use in the hands of inexperienced growers if the makers' directions are followed out.

Water can be much more freely supplied with the increasing light. We by no means advise a soaked condition of the beds, but they may be run considerably wetter now than they have been during the depth of winter. The removal of dead leaves and an occasional stirring of the soil are among the necessary cultural details, and it is still good policy to keep all runners pinched or cut back, to throw all the strength of the plants into the flowering crowns. Air must be freely admitted on all possible occasions. We have no faith in the idea that night air is not good for violets. There is no difference in night and day air when the temperature and atmospheric conditions are the same and there are foggy, damp days, when one would like, if possible, to keep the air out of the houses. The air is invigorating and hardens the constitution of the plants and these are never satisfactory in a house tightly closed at night. Spraying for spider and care in the destruction of other insects must be continued as advised in former notes.

PIERSON'S PINK NO. 50.

Scott Shade, Ideal Form, Largest Size and Longest Stem.

A New Violet.

ED. AMERICAN FLORIST:

I enclose flowers of a violet grown here of an entirely new color. It is a distinct soft purple, and does not show any trace of blue at all. The flower, as you will see, is quite large, and its stem, although thin, is long and stiff. It is very fragrant, more so than Princess of Wales. The foliage is small, which I ascribe to the poor soil it is growing in; the flowers, as well as foliage, may improve if planted in better soil. Is there already a violet of the same color introduced or not? I hope the flower will reach you in good condition. H. S.

The violets arrived several days after the letter, and were completely dried up, consequently we could form no opinion of their merit or otherwise. If the flowers are as fragrant as you say, and distinct in color, we would advise you to propagate and grow a few plants well; then, when you have characteristic flowers and have noted more closely the habits and freedom of flowering, you will be able to judge better whether it is likely to prove of value.

Forcing by Means of a Hot Water Bath.

Over 30 years ago the late Robert Owbridge, of Church Walk Nurseries, Stoke Newington, showed how easy it was to force shoots of flowering shrubs into bloom by means of a hot-water bath, says the Gardeners' Magazine. He had occasion, owing to building operations, to cut down several large magnolias (M. conspicua) early in the year, and he placed the cut branches in a tank of warm water, where they quickly swelled up their flower buds and expanded their beautiful flowers; these latter were sent to market and secured excellent prices. Quite recently this method of forcing has been brought forward as something quite new, but the only new part about it is that efforts are being made to discover the best time to cut branches for the purpose and the best temperature at which to keep the water. We learn from Nature that Dr. H. Molisch, of Vienna, has recently described some experiments upon forcing the resting shoots of woody plants by soaking them in warm water. Twigs of the hazel, bearing male catkins, placed for 12 hours in a bath registering about 30° C. in Mid-November and then removed to a warm house, were hastened into flower in eight days. Flowers of forsythia similarly treated developed in a fortnight. Lilac, dog-wood, horse-chestnut and other shrubs or trees were also responsive to treatment. The stimulus is only effectual at a certain period, and appears to be distinctly localized. Staminate buds of hazel could be forced in November, but twigs bearing pistillate flowers could not be stimulated until December.

Mrs. W. K. Feirerabend.

On January 27, Miss Carolyn Bock and Wm. H. Feierabend of Poughkeepsie, N. Y., were united in marriage. Miss Bock had for years been connected with the extensive violet business of her brother-in-law, B. Willig, and is familiar with the violet in all its phases. Mr. Feierabend is a well known merchant of Poughkeepsie, but in April will give up his business to devote his time to horticulture in which he is deeply interested.

THE ROSE.

Notes in Season.

Potting the young rose stock from the cutting bench is now in order, but before proceeding to pot, there must be certain preparations in order to have the work run along smoothly and with little loss of time. First, prepare the soil, using a stiff loam containing a good amount of fibre; mix one part well-rotted cow manure with three parts soil: screen both through a ½-inch mesh, and mix thoroughly. Do not have the soil wet by any means; it is better to let the soil dry out in a rough state until it can be easily rubbed through the screen, than to screen when wet and allow it to dry on the potting bench. On the other hand it should not be too dry when potting, just moist enough to spread around the roots and to pack firmly. Remember to give the young plants the sunniest location possible, a rose will not stand stinting at any stage of the game. The house should be well ventilated and the young plants placed on tables away from walls or shaded corners. The benches should be thoroughly cleaned and given a coat of lime wash and the side strips should not be higher than the pots after a half inch layer of screened ashes has been firmly packed on the benches and watered down. Never plunge pots in the ashes for good results.

When ready for potting, remove the cuttings carefully from the sand. When the roots have attained a length of half an inch, place the cuttings in a flat that has been partly filled with moss moistened and pressed flat; this will keep the cuttings fresh and protect the roots. Do not take up too many at one time. Most of the indoor varieties, excepting American Beauty, can be potted in 2¼-inch pots, for American Beauty use a 2½-inch pot. Do not jam the cuttings down in the pots and then pack the soil around them with the fingers, but hold the cutting so the roots will be near the top of the pot: sift the soil in around the roots carefully and thump the soil down or jar it down with very little pressure from the fingers. A careful rose cutting potter will not make such a wonderful showing for a day's work as this work requires twice the time allowed for general stock, but the plants must be well potted.

Do not let the plants lay around in flats after potting; set them up and, about

Mrs. Feirerabend (Nee Bock).

every half hour, water down and mark with a label so as not to get too much water on the plants previously watered. A good plan is to water them once, then in half an hour give them another watering. After the water has settled well knock out a plant here and there, to see if the water has reached the bottoms of the pots; if not, they will require more. Shade the plants for several days by using cloth elevated above the plants, either tacked on frames or stretched on wires. Do not spread newspapers over them shutting out the air. Cotton cloth is inexpensive and can be used repeatedly in various ways around the greenhouses. As soon as the roots begin to start out in the new soil the shading can be removed. Keep a little sulphur painted on the pipes and syringe on bright days, making a fine spray and using considerable force after the plants are well rooted. Ventilate carefully but allow them all the air possible; run the houses at rose house temperature 60° at night, 75° with air in daytime.

E.

Treatment of Kaiserin and Carnot.

ED. AMERICAN FLORIST:—

I wish to learn through your valuable paper how to proceed with a house of two-year-old Kaiserin and Carnot roses. Some are on their own roots and the balance are grafted stock. The soil is of a clay loam and the benches are on the ground. The subsoil is of a sandy soil, which drains very readily. The plants have been kept on the dry side since November 1, and the temperature as low as possible in warm weather, and in cold down to 28°. When shall I start them to get my first crop for Easter? How much of the old soil can I remove without injury to the plants, and how much manure and fertilizer can I use and be safe? How should I increase the temperature, and how much water can be applied?

X. Y. Z.

The plants may be started February 1 and will probably be in good condition by Easter. Remove any weak or old wood and prune back the strong shoots. Cut them according to their individual strength—not all alike—leaving the strong healthy shoots longer than the weaker ones. Remove about an inch of the old soil unless you find roots in it. If so remove only to the roots and do not damage them unnecessarily. Top dress, first with a layer of bonemeal about one pound to two square yards, or enough to give a liberal dusting, then fill up the benches with good, rich, composted soil. No other manure will be needed. If the soil is in a very dry condition (it should not be) give one good soaking of water before applying the bonemeal or new soil. If in a medium condition it will be all right, and the benches will need very little water until growth starts, just enough to keep the soil evenly moist. If the under soil gets real dry it is difficult to get the water

ESTABLISHMENT OF A WIEGAND & SONS, INDIANAPOLIS, IND.

down through the new soil. Start with a temperature of 40° and increase this gradually, a few degrees at a time, until you see how the plants are coming out, the maximum temperature of 58° at night being reached in about six weeks after starting. As to how much water to apply this is a question we are frequently asked, but cannot answer. Always water in accordance with the state of growth and the weather; when the growth is active and pulling away at the roots and the weather is bright so that plenty of air can be kept on it is hardly possible to overwater. It is very different in dull or wet weather. This matter of watering can only be decided on the spot. G.

Seedling Roses.

ED. AMERICAN FLORIST:—

I have several seedling roses, two years old and 18 inches high. They have never flowered though planted outdoors. How old should they be before they flower? Can you tell me if seedling roses have been grown in New Orleans?

J. R. G.

Roses seeded from teas and hybrid teas generally flower the first year, not always. Seedling roses are subject to an enlargement of the cells of the roots which generally prevents them either growing or flowering. "J. R. G." would do well to bud his seedlings on some good stock for under the influence of a new root or roots they generally show flower. Hybrid perpetuals, the mosses and climbing varieties sometimes grow on for years without showing flower. We had a seedling from Reine Marie Henriette which grew annually but never did flower. Either graft or bud the seedlings on some good stock and, if they fail to produce bloom then, throw them away.

E. G. HILL.

Richmond, Ind.

To Be Done Now.

IN THE GREENHOUSES.

New crop lily of the valley may be used now for forcing with perfect confidence.

After forgetmenots have passed their best throw them out as they may be attacked with mildew that will spread to other plants.

A batch of pansies may be sown for early planting outdoors and late flowering inside and in frames.

Get after any chance bits of mildew on the roses in crowded parts of the benches or elsewhere and prevent it spreading.

When inserting carnation and rose cuttings select them as near as possible of one size so they will be all rooted at about the same time and make a regular batch of plants.

Cut up any lanky old plants of Dracæna terminalis or other species into eyes and root them over a brisk heat. The tops may be rooted in bottles of water with a little charcoal. This is a better way than mossing the tops as this check causes the stems to harden.

Divide and repot Adianium Farleyense. Where fronds are still on the plants cut them and let new growth start or support them after the divisions are made.

Pot imported aspidistras immediately on receipt giving a moderate shift only and keeping them rather close.

Select the forwardest lilies for Easter and give them the best attention and sufficient heat to get them on time.

Where dahlias are to be freely propagated take out a few of the roots and place them over heat to start them into growth for cuttings.

OUTDOORS.

Push on with any cleaning and liming of fruit trees, pruning of old orchards and cleaning up generally as long as the weather is suitable.

A few leaves or a little litter scattered around the violet plants in the milder localities will insure useful gatherings later on in spring.

CARNATION MRS. J. C. VAUGHAN.

In severe frosty weather any piles of old soil that has been used in the benches may be turned over and the inside exposed to the frost. This will have the effect of killing many injurious insects and spores of fungus.

Haul out clinkers, ashes or other hard material to low, soft spots around the greenhouses or sheds where they will gradually form good hard walks instead of mud.

See that all newly planted trees are well staked and supported so they will not be blown about, or the roots cannot take a good hold on the soil.

Pot up Gerbera Jamesoni, Heuchera sanguinea, funkias and other hardy plants for light forcing in the greenhouse.

Ventilate the frames containing hardy and semi-hardy shrubs and plants freely when occasion offers. A clear cold day when there is little or no frost is the best time for the purpose.

Mix old mushroom manure with bench soil or any other oddments of soil that may be around for use later in potting bedding stock.

The burned refuse from a garden smother is excellent material for the quarters to be devoted to potatoes or tomatoes. Keep it dry until needed or much of the nutriment in it will be lost. Where there is still any rubbish of any kind lying around get it burnt up when it will prove of value instead of a nuisance.

OBITUARY.

Arthur Mellor.

Arthur Mellor, who for a number of years was prominently connected with the florist business of Lowell, Mass., as a designer and decorator, died at Phoenix, Ariz., January 16. He was about 35 years of age and was born at Birmingham, Eng., and removed to Lowell with his parents when about 16 years old. His first employer at that place, we believe, was the late Edwin Shepherd, who at that time was the leading florist of Lowell. He worked for short periods in Boston and other cities, but practically all of his manhood life, up to two years ago, was spent in Lowell. He was for a number of years with the late George Patten who conducted a retail store at Merrimac square, and the beauty and taste of his designs were noteworthy.

After the death of Mr. Patten, Mr. Mellor formed a partnership with the late George Saunders, the firm name being Mellor & Saunders. The business was continued for about two years, but was not a financial success, due, doubtless in a measure to the failing health of Mr. Mellor. He was of slender build and of the physical type subject to weak lungs and the rigors of the climate sent him first to Florida and later to Arizona. Arthur Mellor, in addition to being an expert florist, was of a genial, kindly and obliging disposition. He had many warm friends who have sincerely deplored the ill health and misfortunes which overtook him while yet in the prime of life. He is survived by a widow, Mrs. Blanche Farrington Mellor, a member of an old and highly esteemed family of Lowell.

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THE mild weather is bringing lilies along very quickly.

CHICAGO.—Temperature January 23, 65°—40° above normal.

THE date of Easter is April 11, one week earlier than last year.

ALL Italian products have increased in price enormously as a result of the recent catastrophe.

THE weather will probably keep us guessing for the next two months and it is well to be prepared for anything from blizzards to summer heat.

THROUGH an error of our correspondent the date of the carnation show of the Cleveland Florists' Club was given as February 10 instead of February 8.

BY the items of news that leak through, the Cincinnati brethren are going to give the delegates to the S. A. F. convention in August the time of their generation.

SHARP, PARTRIDGE & Co., of Chicago, report an unusually large number of inquiries and early orders for greenhouse glass and point to this as an indication of considerable activity in all lines of greenhouse construction for 1909.

THE season for increased use of the poisonous chemicals in fumigation is again with us. Be warned in time and use the greatest care that children or inexperienced persons are kept away from it. The locked faucets on the products of one of our well known advertisers of this class of goods are a great safeguard along this line.

Society of American Florists.

REGISTRATION OF CYPRIPEDIUM.

Public notice is hereby given that Alfred J. Loveless, of Lenox, Mass., offers for registration the plant described below. Any person objecting to the registration of this plant or to the use of the proposed name is requested to communicate with the undersigned at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Cypripedium Ursula, parentage, C. Leeanum Clinkaberryanum X C. Niobe Shorthillense. Description—upper dorsal, round pointed at the apex 2¼ inches wide and the same in depth, upper half pure white, base yellowish green with numerous dark spots, a bright reddish purple line ¼ inch wide runs through center to apex, flushed with the same color, on each side of central line radiating from the base, until lost in the white above; lower dorsal, pale green, keeping well forward, giving the flower a round full effect; petals, deeply corrugated, brownish on upper half with a margin of pale green, terminating with numerous minute spots at base; dark brown line runs through center, lower half light yellowish green splashed with chocolate; pouch, 1½ inches wide at top, differing from either parent by almost touching the petals on either side and being of a bright glossy reddish brown in front shading back to yellowish green. Foliage, similar to C. Leeanum.

W. N. RUDD, Sec'y.

January 25, 1909.

The following letter and questions have been sent out by Benjamin Hammond, chairman of the legislative committee:

The legislative committee is desirous of obtaining information upon matters pertaining to a revised tariff scale, and requests your assistance. Will you please look carefully over the list of questions on the reverse side of this letter, and return the list as soon as possible, for use and guidance?

THE QUESTIONS.

(1) Are you engaged in importing merchandise known as horticultural goods?

(2) What class of horticultural goods do you import, and to what extent?

(3) On what articles, in your estimation, should the tariff be increased? Why?

(4) Name any articles on which you think the tariff should be reduced, and why?

(5) Name any articles in the said class on which you think the tariff should not be changed, and why?

(6) Please give your views as to the advantage to importers of a specific rather than ad valorem duty on horticultural goods.

(7) Have you made an appeal from the decision of the appraisers at any of the ports of entry? If so, when and where and with what results?

American Rose Society.

SPECIAL PRIZES—DIVISION G.

In addition to the list of premiums announced on page 1201 in our issue of January 9 the following special prizes are offered for competition at the annual convention and spring exhibition of the American Rose Society to be held in Buffalo, N. Y., March 17-20. Secretary Hammond informs us he expects to see the list much lengthened:

The Dorranee challenge prize valued at $250 for the best display of cut roses of all varieties offered by Benjamin Dorrance; the winner to hold the prize for a year and on relinquishing it to the society for another competition at the end of that period to receive a silver shield suitably engraved as a permanent record of his having held the prize. The names of the winners will be engraved consecutively on the prize.

The Michell prize for the best 50 blooms of Kate Moulton in the show; a silver vase valued at $25 offered by Henry F. Michell Co., Philadelphia, Pa.

The Kroeschell prize for the best 12 named varieties of hybrid perpetuals in pots; prize of $10 offered by Kroeschell Bros. Co., Chicago.

A prize of a silver cup—a beauty—to be assigned by committee.

The J. A. Budlong prize of $25 in gold to be assigned by committee.

The Valentine prizes of $10 first, and $5 second for the best arranged vases or other receptacles containing not to exceed one dozen roses (American Beauty barred) no foliage or other accessories except rose foliage permitted. The competition to be open to all florists and employes.

Waban Rose Conservatories prize, $25.
W. H. Elliott prize, $25.
Welch Bros. prize, $25.
Ellwanger & Barry prize.

Besides the above the society's gold medal for the best new rose, the silver medal and certificates of merit will be awarded, the last named being given to all novelties scoring 80 points. Intending exhibitors should communicate with Secretary Benjamin Hammond, Fishkill-on-Hudson, N. Y.

A Brother in Distress.

Gustave V. Pearson, a native of Sweden, who has been in this country for 16 years and worked as a florist, has applied to us to make his case known through our columns, which we do the more readily as his seems to be a genuine case of hard luck. He worked until four years ago for H. T. Conant & Co., of Salem, Mass., when he had to give up on account of sickness. His doctors advised him to turn down the greenhouse work and try outdoor life which he did but only to have to repeatedly give up, and now, his savings gone and his wife also crippled with rheumatism, he is quite a wreck both in health and financially. He hopes to go back to Sweden and through our columns asks the help of any florists or gardeners to enable him to get there as his doctors think this his only chance. We will gladly forward any subscriptions that may be made towards helping this our unfortunate brother worker in his hour of need or any money sent direct to him would be gratefully acknowledged by him. His address is 8 North court, Salem, Mass., and we trust our readers will respond to his urgent appeal.

Meetings Next Week.

Boston, Mass., February 6, 11 a. m.—Massachusetts Horticultural Society, Horticultural Hall, 300 Massachusetts avenue. Lecture on "The Etherization of Plants for Forcing Purposes," by Prof. Wm. Stuart, Burlington, Vt.

Buffalo, N. Y., February 2, 8 p. m.—Buffalo Florists' Club, Saturn hall.

Chicago, February 4, 8 p. m.—Chicago Florists' Club, Union Restaurant, 111 Randolph street.

Dayton, O., February 1, 8 p. m.—Dayton Florists' Club, 37 E. Fifth street.

Detroit, Mich., February 1, 8 p. m.—Detroit Florists' Club, Cowie building. Paper on "Scales and Insects Affecting Trees and Shrubs," by D. S. Kimball.

Grand Rapids, Mich., February 1.—Grand Rapids Florists' and Gardeners' Club, Board of Trade rooms, Pearl street.

Indianapolis, Ind., February 2, 7:30 p. m.—State Florists' Association of Indiana, State House.

Lake Geneva, Wis., February 6, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Louisville, Ky., February 2, 8 p. m.—The Kentucky Society of Florists.

Milwaukee, Wis., February 4, 8 p. m.—Milwaukee Florists' Club, Quiet House, corner Broadway and Mason street.

Montreal, Que., February 1, 7:45 p. m.—Montreal Gardeners' and Florists' Club, Royal Guardians building, 211 Sherbrooke street, West. Paper on "How Plants Feed and Grow," by Prof. W. Lochhead, Macdonald College.

New Orleans, La., February 3, 8 p. m.—New Orleans Horticultural Society, Kolbs' hall, 127 St. Charles avenue.

Newport, R. I., February 3.—Newport Horticultural Society.

Ottawa, Ont., February 4-5.—Canadian Seed Growers' Association, Canadian building, fifth annual convention.

Pasadena, Calif., February 5, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Pittsburg, Pa., February 2, 8 p. m.—Pittsburg and Allegheny Florists' and Gardeners' Club, 422 Sixth avenue.

Salt Lake City, Utah, February 2, 8 p. m.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

San Francisco, Calif., February 6.—Pacific Coast Horticultural Society.

Seattle, Wash., February 2.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.

Utica, N. Y., February 4, 8 p. m.—Utica Florists' Club, Hotel Martin.

Washington, D. C., February 2, 8 p. m.—Florists' Club of Washington, 1214 F street, N. W.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By all around greenhouse man and gardener; seven years European experience. Address STEPHEN PANASUK, 169 Liberty St., Chicago.

Situation Wanted—By practical gardener and florist; private or commercial; life experience; good reference. Address J. HODGE, 44 West St., Fitchburg, Mass.

Situation Wanted—By a grower with 15 years' experience in roses, carnations and general stock; best of recommends; age 32, married; please state wages, etc. Address Key 767, care American Florist.

Situation Wanted—By an American of middle age, by Feb. 22nd as grower of Beauties, teas or carnations on wholesale or large retail place; please state wages. Address Key 764 care American Florist.

Situation Wanted—By thoroughly competent grower of roses, carnations, 'mums and general stock, have had 15 years experience; strictly sober and honest; can furnish best of reference. Key 769, care American Florist.

Situation Wanted—By thoroughly competent greenhouse and storeman of 17 years' experience; handled help for 12 years; strictly honest and sober; state wages in first letter west. Key 750, care American Florist.

Situation Wanted—Landscape draughtsman, graduated, good designer, experienced in executing, seeks position where there are chances to promote business; middle west or west preferred. Key A 100, General Delivery, Chicago.

Situation Wanted—By lady, 27 years old, experienced in general office work and good designer; also used to waiting on customers; reference. W. W. Coles. Address DELLA RATCLIFF, 1313 N. Courtland Ave., Kokomo Ind.

Situation Wanted—By single man, age 39, sixteen years' experience as grower of cut flowers bedding plants, etc. Small commercial place preferred; can furnish reference. Address E. A. E., 318 N Water St., Decatur, Ill.

Situation Wanted—On a good private or commercial place by a man who understands his business; good grower and manager; best references; can take full charge, or would accept position with promotion in view. Address Key 762, care American Florist.

Situation Wanted—By a single German gardener; thorough practical knowledge of landscape, greenhouse, flower, vegetable, trees, shrubs hardy perennials etc., care improvements of country places; references. Address FLORIST 16 North William St., New York City.

Help Wanted—We need a thoroughly competent rose grower: Send full particulars at once. Key 770, care American Florist.

Help Wanted—Farmer with some road and nursery experience. Address stating salary and references. H., care Vaughan's Seed Store, Chicago.

Help Wanted—First class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references, Key 747, care American Florist.

Help Wanted—First-class market gardener, one accustomed to growing vegetables in greenhouses and hotbeds, with some knowledge of carnations and bedding stock, and able to take full charge of 25,000 feet of glass; married man preferred; none but strictly sober person need apply; references. Key 753, care American Florist.

Wanted—German, 35 years of age, 20 years' experience in every line of the trade would like to exchange letters with the widow or daughter of a florist. Key 763, care American Florist.

For Rent—Fifteen acres near large city in Indiana on shares for trucking, small fruits and poultry, to an experienced man with small capital; good river bottom land good five room house, stable and outbuildings team, wagons and all garden implements furnished; an abundance of water for irrigation; only experienced men with some capital to put in hot beds, help, etc., and understanding intensive methods in truck gardening need apply; write giving full particulars of experience, family and references. Address Key 765, care American Florist.

For Sale—Greenhouse and contents at great bargain. L. A. JENNINGS, New Castle Ind.

For Sale—Established wire design manufacturing business; snap if taken at once. Address Key 722, care American Florist.

For Sale—An old established, first class retail store with palm houses attached, in Chicago, south side; reason for selling, other business Key 659, care American Florist.

For Sale—Any party wishing a fine business location and having $500 or more in cash can secure particulars by addressing S. F. LOOK 2459 Michigan Ave., Chicago. Phone Calumet 2864.

For Sale—Greenhouse 6,000 feet glass near center of growing town of 7,000 inhabitants in heart of Rocky Mountains; good trade; no competition; price $4,000. J. H. FREEMAN, Salida Colo.

For Sale—A fine wholesale place in eastern state, 20 acres of land, well stocked; carnations a specialty; 20,000 feet of glass, up-to-date in every respect; good reasons for selling. Key 749, care American Florist.

For Sale—Greenhouse property 12,000 feet of glass, nearly all new, on best street in town of 30,000, 40 miles west of Chicago, also large 10 room house and barn 2½ acres of ground, good reasons for selling. Key 752, care American Florist.

For Sale—Greenhouses and salesrooms steam heated; consisting of eight thousand (8,000) square feet glass in the heart of prosperous town of twenty thousand (20,000) good chance for party with small capital; you can get this business on your own terms; make me an offer. Address Key 768, care American Florist.

For Sale—One up-to-date greenhouse plant in Wis. in a city of 25,000 population; wholesale and retail, 25,000 feet of glass, hot water heat, own water works, deep well, 2 dwellings, 2 barns, 2 horses, store down town connected with dwelling 5 acres of the best soil, cannot grow enough to supply the market, good railroad connection to all parts of the state; anyone interested will be furnished detailed information on application don't write unless you mean business. Key 735, care American Florist.

For Sale—An up-to-date greenhouse plant in good repair; situated in St. Paul, Minn. Two houses 20x200 and one propagating house, 22x22; two good dwellings, barn, toolhouse, icehouse, 14 lots, good soil, good well, plenty of water, windmill and gasoline engine, new steel tank, steam fertilizing system, frost proof electric temperature alarm, three wagons, 2 of them new, full set of tools; houses stocked with carnations and 'mums; a splendid chance for a party taking the property; particulars on application W. J. MCWHINNEY, Cor. Hazel and Jessamine Sts. St. Paul, Minn.

For Sale.

Secondhand Boilers, Tubular and Firebox shapes. Suitable for hot houses and the like where low pressure is required. Let us know what you want, we have it.

RYAN BROS.,

29 N. Clinton St., CHICAGO.

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,

125-133 W. Superior St. CHICAGO, ILL.

FOR SALE.

A Thriving Retail Florist Business in one of the best sections of New York city. Reason for selling: other business. For particulars address

MILLANG BROTHERS,

41 West 28th St., NEW YORK

For Sale.

One second hand Hot Water boiler capable of heating 3,500 ft. 4-in. pipe.

Superior Machine & Boiler Works,

125-133 W. Superior St., CHICAGO, ILL.

Hot Bed Sash.

About 60 new white pine sash, unglazed 3 ft. 4-in x 6-ft., 1¼-in. grooved bars for either 8-in. or 11-in. glass, crated for shipment.

Also a few secondhand glazed sash cheap to a quick buyer.

CHAS. KOEPPEN, Fredericksburg, Va.

Position Wanted as Superintendent or Manager.

Man of exceptional ability and broad experience in the production of high grade stock now open for engagement; eleven years in last position as manager of one of the large plants of the country Correspondence solicited from those looking for a first-class man and where the production, heating, general construction and managing ability will be a factor and appreciated. Address Key 766, care American Florist.

Flower Colors

Use our **COLOR CHART** in describing them **PRICE, $1.00 POSTPAID.**

American Florist Co.

324 Dearborn St., CHICAGO

Ornamental Gardens and Garden Materials.

Synopsis of a paper given, with stereopticon illustrations, by Prof. E. A. White, Amherst, before the Massachusetts Horticultural Society, January 23.

The development of ornamental gardening follows step by step the increasing wealth and prosperity of a nation and one of its most pleasing features is the interest manifested by all classes of people; the wealthy man in the development of his large estate with its extensive lawns and elaborate formal gardens; the so-called middle class, the business man, who owns his suburban home, and with it a quarter or half-acre of lawn; the workingman with his backyard plot; and we must not exclude the tenement dweller with the geranium in an old tin can. Plant life in some form appeals to all classes of individuals.

ENGLISH GARDENS.

A detailed study of the history of English gardens is intensely interesting. Very little gardening was done in England previous to the sixteenth century. Before this period the country was engaged in wars, the castles and homes were inaccessible places, limited in extent, and surrounded by moats. When men came to dwell together in harmony the homes were built on broader fields, the gardens spread beyond the enclosure of the moat, then developed an interest in gardening.

The idea of seclusion suggested by the moat is retained in English gardens at the present day. The Englishman's garden is for his private use, and is characterized by neatness and seclusion. In America the tendency is to often for the individual to seek to impress the outsider with a show of elegance and color in the front yard, while the back yard may be far from attractive.

One of the most conspicuous trees in English gardens is the yew. It is not unlike our American hemlock (Tsuga Canadensis), in many of its characteristics. Its extreme plasticity makes it an especially valuable plant for hedges, and for trimming into the formal and often grotesque shapes which may here be seen. By the way, our hemlock is a species which deserves more frequent use in America than is now given it. No one of our evergreens has a more graceful foliage, and none gives us more beautiful winter effects. It is a shade enduring tree, which makes it especially valuable for screens along town or village streets, where the larger trees of the street make such a dense shade that other species are killed by them. The hemlock is also extremely plastic, and will endure severe pruning without detriment to the vigor of the tree.

Nowhere is rivalled the beauty of the English roses; the climate especially suits them, and doubtless their vigor and hardiness are due also to the protection from driving winds and rains afforded by the yew hedges. English gardens abound in the old-fashioned flowers, so dear to the hearts of our grandmothers. Hollyhocks, poppies, larkspurs, columbines, and lavender grow in wonderful profusion, the beauty and brilliancy of the blooms being unexcelled in other gardens of the globe. Beyond the limits of these formal gardens, extends the natural style of gardening and the park system prevails.

In this country we have few typical Italian gardens, but several distinctly formal gardens are so-called. The nearest approach to the typical Italian garden is that on the Hunnewell estate at Wellesley. Here we find evergreen trees predominating, and these trees are trimmed in symmetrical and unusual shapes. The terraces are in evidence, and the placid water of the lake harmonizes with the perennial verdure.

JAPANESE GARDENS.

Japanese gardens are representative of the natural scenery of the country. These people seek to bring into their gardens the beautiful that surrounds them in nature and to reproduce these scenes, often in miniature, from the varied landscape of the country. There are artificial hills, rocks, lakes and cascades copied from some unusual landscape effect. Garden compositions are striking in the extreme, and the garden accessories are many and varied.

It has been a custom of the Japanese from very ancient times to attach a religious significance to their principal garden stones by giving them the names of different Buddhist deities. Some of these religious stones are found in every garden, no matter how limited may be its area. These stones are selected with the greatest care, and have considerable value, because of the difficulty in obtaining them, and because often the expense of transporting them is considerable. In the Japanese gardens there are recognized five radical shapes of stones; the tall vertical stone, the low broad stone, a stone of medium height, and a long curved boulder of horizontal character.

Turf was not used to any extent in any of the old gardens, although its introduction is frequent in the gardens of the present time. In a typical old Japanese garden the plain, open portions are spread with sand, which is carefully raked and weeded. This is kept moistened at all times, and in summer this moisture gives the cool, fresh, pleasing character to the gardens. In order to preserve these sanded areas from injury by the Japanese footwear, and also to make walking comfortable in the garden when the soil is wet, a pathway is invariably constructed with stepping stones. The Japanese gardeners follow carefully devised rules in placing these stones, in order that they may be walked upon with ease. In ancient times it is said that the height of these stones was governed by the importance of the individual owner; that those in the emperor's gardens were made six inches high, those for a daimio four inches, those for ordinary samurai

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales.....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7 50
Boxwood.....35c per bunch; 50 lbs., 7,50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
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HENRY M. ROBINSON & CO.

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WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,
EVERGREEN, ALA.

Southern Wild Smilax

Price per case of 50 lbs., f. o. b. Evergreen $2.00. Satisfaction guaranteed.

J. A. RUMBLEY, Evergreen, Ala.

IF YOU ARE WANTING NICE, CLEAN

Sphagnum Moss

FOR DESIGN WORK,

Place your next order with us. We sell at the following prices. Terms: Cash with order.

Per 1 bale of 5 bbls	$ 1.60
Per 5 bales of 25 bbls	7.25
Per 10 bales of 50 bbls	13.50
Per 1 bale of 7½ bbls	2.25
Per 5 bales of 37½ bbls	10.00
Per 10 bales of 75 bbls	18.00
Per 1 bale of 10 bbls	3.00
Per 2 bales of 20 bbls	5.50
Per 5 bales of 50 bbls	12.50

Brookville Moss & Peat Co.
BROOKVILLE, NEW JERSEY.

Galax, Ferns, Etc.

New crop, fresh from the patch, prices as follows:

Bronze and Green Galax Leaves	$0 50 per 1000
Fancy and Dagger Ferns	1.00 per 1000
Green Leucothoe Sprays	2 50 per 1000
Bronze Leucothoe Sprays	4 00 per 1000
Rhododendron Sprays	2.00 per 1000
Mountain Laurel	2.00 per 1000

Discount on large orders. Fifteen years experience enables me to guarantee perfect satisfaction 250 customers now in U. S. Send cash with first order.

J. A. PRITCHARD, Elk Park, N. C.

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

JOHN P. SCHERER,

Telephone 328 L Union.
636 Gardener St., UNION HILL, N. J.

SMILAX, FERNS, PALM LEAVES

and all kinds of GREEN GOODS.

FORMOSA LILIES

We are cutting 500 lilies per day. Extra choice, with long stems, $12.00 per 100.

Beauties, Richmond, Killarney, Maids and **Brides** are grand in quality now.
Fancy Carnations, Bulb Stock and **Greens.**

AMERICAN BEAUTIES.

	Per doz.
Extra long	$ 4.00 to $ 5.00
Stems 30 in.	3.00
Stems 24 in.	2.50
Stems 20 in.	2.00
Stems 15 in.	1.50
Stems 12 in.	.75 to 1.00

KILLARNEY.

Extra long and select, per 100	10.00 to 12.00
Good average lengths, per 100	8.00
Medium lengths, per 100	6.00
Short stems, per 100	4.00

RICHMOND.

Extra long and select, per 100	12.00
Good average length, per 100	8.00
Medium length	6.00
Short length	4.00

BRIDES, MAIDS and PERLES.

Extra long and select, per 100	$10.00
Good average length, per 100	6.00 to 8.00
Medium length, per 100	5.00
Short, per 100	4.00

CARNATIONS.

Fancy long red, O. P. Bassett, per 100	$5.00
Pink. White, good stock	4.00
EASTER LILIES, Giganteum, per doz., $2.00	**$15 per 100**
LILY OF THE VALLEY, per 100	**3.00 to 4.00**
ASPARAGUS STRINGS, heavy, per string	**.40**
ASPARAGUS SPRAYS, per 100	**2.00 to 3.00**
SPRENGERI, per 100	**2.00 to 3.00**
SMILAX, extra fine, per doz.	**1.50**
ADIANTUM, per 100	**1.00**
GALAX, bronze, per 1,000	**1.50**
GALAX, green, per 1,000	**1.25**
FERNS, per 1,000	**2.00**
Paper Whites and Romans	**2.00 to 3.00**
Single Daffodils	**4.00**
TULIPS, Yellow and Red	**$4 per 100**
TULIPS, White	**$3 per 100**

Bassett & Washburn

Greenhouses: Hinsdale, Ill. **Store: 76-78 Wabash Ave., CHICAGO.**

nearly three inches, and those for common folks an inch and a half.

AMERICAN GARDENS.

In our garden development in America we have come to recognize two distinct types of gardening—the formal and natural. Each is good, but each requires its special treatment. The formal has been designated as the "full dress type of gardening; stately, princely, full of dignity; a type of gardening which seems to demand that the actual working of it be kept out of sight, while the ordinary gardens full of natural beauty in free, flowing lines seem to demand the mower, the wheelbarrow and the shirtsleeved laborer." The development of each of these types will depend largely upon the use to be made of the area ornamented.

Probably the most elaborate planting is demanded in the formal gardens. Here there must be symmetrical and geometric designs and shapes. The trees and shrubs which lend themselves the most readily to this character must therefore be selected for planting. The rectangular and curvilinear beds must contain herbaceous perennials which are pleasing in the combination of their colors, and which furnish a succession of flowers throughout the season. Bulbs are followed perhaps by pansies or English daisies, and these by aquilegias, hollyhocks, larkspurs, boltonias, asters, hardy chrysanthemums, and the like. Such gardens as these demand constant attention. As one species passes out of bloom, the dying plants must be removed, and space allowed for the succeeding species.

SUITABLE SHRUBS AND PLANTS.

The trees, shrubs and herbaceous perennials which should surround the homes of the average class of Americans are of especial interest to the majority of people. These should be selected with the greatest care, and they should represent the finest taste possible. The number need not necessarily be large. The species should not be too varied, or the effect will be too striking and not in good taste. One must take into consideration the species best suited for spring, summer, fall and winter effects. Too frequently the winter effects are not carefully considered and much of the charm of planting is lost. The varied green of the coniferous trees, and especially the delicate effect produced, when the evergreens of more delicate foliage, like the hemlocks and chamaecyparis, are covered with snow, is very pleasing. The variation in color in winter of the bark of many of the deciduous trees and shrubs should also be carefully studied in selecting the planting list. Few, if any of the shrubs equal the different varieties of cornus, and salix, for these winter effects. The flowers of spring and summer, the fruits of summer, fall and winter, and the colors of bark and twigs in winter, should keep our homes bright and attractive throughout the year.

The improvement of school grounds, especially in the rural districts is a topic which should be more generally considered by the governing board. Many of our country schoolhouses are far from pleasing in their architecture, and the barrenness of the school grounds is depressing. In many cases the building is situated on the cheapest land available, and the soil is consequently of the poorest quality. In such instances it is possible to remove sufficient soil from around the base of the building so that vines may be used to hide its deficiencies. By a careful selection of species it is possible also to adapt to their environment, the shrubs planted in the school yard.

One may study the effect of the beautiful produced by the hand of man in the gardens of the old and the new world. He finds much that is impressive and to be admired in these gardens. But to the nature lover this same element of beauty prevails throughout the garden of God's "Out-of-doors." Nowhere in the formal gardens do we find impressiveness more forcible than in the towering pine, the massive oak or the picturesque hickory. In Nature's garden there is a marvelous blending of colors for spring, summer, fall and winter effects. The attractive white birch bark blends with the grays and browns of other species. The fall fruits are just as abundant and attractive as in our introduced species, and the spring and summer flowers just as brilliant in coloring and sweet in perfume. In English gardens the symmetrical enclosures are attractive; in Italy the perennial verdure of the trees, blended with the moving water, is grand; in Japanese gardens the picturesqueness appeals to the eye; but in no garden fashioned by the hand of man do we find the lofty grandeur of mountain peaks, blended with broad sheets of water surrounded by magnificent trees, beautiful shrubs and flowers such as we find in the garden of the great "Master Gardener."

FORT MORGAN, COLO.—L. J. Reid will build a greenhouse and start in the florist business on his lots at the corner of West street and Platte avenue.

GREEN BAY, WIS.—Owing to the large increase in business Chas. De Clerc, is to build a large addition to his present greenhouse near the Fort Howard cemetery. Work on the new addition will not be commenced until next spring but all of the material will be on hand long before the work is commenced as the glass is expected to arrive in the city in a few days. When the addition is complete it will be one of the largest greenhouses in the state. The whole building will cover about 42,000 square feet. The new part of the greenhouse will be used almost entirely for carnations and roses.

WHITE LILAC Ready February 1

Bridal Wreathing Ready Now.

Killarney We are without doubt getting in the finest long, stiff stem Killarney Roses coming into the Chicago market.

Violets For St. Valentine's Day. Get your order in early. As usual, we will have the best in large supply.

Freesias Finest in Chicago; $4 00 per 100.

Mexican Ivy The popular new Green. We can supply in any quantity.

For St. Valentine's Day: Heart Shaped Violet Boxes and a full line of Florists' and Growers' Supplies.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

VOLUME OF TRADE LARGER.

The mild weather of the past week has brought along a somewhat increased supply of stock, but the demand is also better and there is consequently a larger volume of business. Long stemmed American Beauty roses are fine and continue in large supply. The short and medium grades are unsatisfactory as to quality. In miscellaneous roses the heaviest call is for Bride, but Bridesmaid, Killarney and Richmond are also in active demand. There is generally a better supply in this line and probably orders have been filled in most cases on select and medium grades. Short white roses are extremely scarce. The prospects seem to be that Bride and Bridesmaid will be more plentiful within a week as several large growers report good crops coming along. As the days begin to perceptibly lengthen and the rose plants get more sun there will naturally be more stock cut. The market conditions as regard carnations seem just the opposite to those affecting roses, as the demand is not sufficient to clean up receipts, and prices have begun to weaken. Considerable soft stock is seen. Last Saturday was a record breaker, according to weather bureau reports, it being the warmest January day in 33 years. As we have had almost a steady week of spring-like weather, shippers are having trouble with carnations, many complaints coming in of receipts of sleepy stock. There is a rapidly increasing supply of bulbous flowers. Some very choice yellow tulips (Yellow Prince and Proserpine) and Golden Spur narcissus are being received. Lilies are easier in price, most firms receiving good cuts. Lily of the valley has also been in large supply. Sweet peas have been almost a glut and violets have moved none too well. Gardenias are now seen in quantity here with a very fine call for them. White lilac has been seen in small lots and a larger supply is promised very shortly.

NOTES.

Weiland & Risch report having had the order from Geo. W. Jackson, the contractor who was building the lake crib that was the scene last week of a fearful holocaust, for 50 large double wreaths. The wreaths were of Bride roses and magnolia leaves. It is said the order took one and a half barrels of magnolia. Seven men worked all Friday night on the order and it took a special express car to get the pieces to Mount Greenwood cemetery.

Prof. J. M. Coulter, head of the botany department of the University of Chicago, with his wife, daughter and son were aboard the ill fated S. S. Republic. Prof. Coulter had just started on a leave of absence and contemplated studying in Italy. The party escaped without injury beyond the interruption of the trip.

The Kennicott Bros. Co. received a carload of wild smilax on Monday last, and sold all but one case that same day. E. E. Pieser, of this firm, says trade is better, florists seeming to have lost that down-in-the-mouth feeling induced by the recent panic.

W. N. Rudd was in a hurry leaving the meeting of the Horticultural Society Tuesday afternoon, but the cause of his haste was not known until it was later found that he had appropriated President Kelley's overcoat.

Peter Reinberg, who underwent an operation for a tumor a few days ago, is recovering at St. Elizabeth's hospital. His attending physician said that he had withstood the shock well, and now is in no danger.

Leo. Bather, son of Andrew Bather, Clinton, Ia., was in town this week buying supplies and furnishings for a new store to be opened opposite the old location next week.

Chas. W. McKellar is now regularly receiving large shipments of gardenias. Cyclamen plants in bloom are also quite a specialty with Mr. McKellar.

Geo. E. Feustel, the pot man of Fairport, Iowa, was a caller this week and reports business in his line exceptionally good.

Some 43 or 44 of the dead from the lake disaster were buried at Mt. Greenwood cemetery.

Wietor Bros. are cutting extra fine Bride, Bridesmaid, Killarney and Kate Moulton roses.

Bassett & Washburn are still cutting large quantities of Formosa lilies.

Ernst Wienhoeber is planning to go to Europe the coming summer.

Mrs. Albert Klingenberg, 920 N. Halsted street, is dead.

Art Craig, son of Joe Craig, was married last week.

Visitors: Leo. Bather, Clinton, Ia.; Geo. A. Heinl, Toledo, O.; L. P. Harley, Hartford, Mich.; C. H. Frey and I. F. Frey, Lincoln, Neb.; J. A. Valentine, Denver, Colo.

Horticultural Society of Chicago.

The annual meeting of the Horticultural Society of Chicago was held in the trustees' room at the Art Institute, January 26, with President Kelley in the chair, the principal business being the election of officers. Treasurer Wienhoeber reported a substantial balance on hand, and arrangements were made for the early delivery of the medals awarded at the National Flower Show. Seventeen new members were elected, and the members of the board of directors were chosen to succeed themselves. W. E. Kelley was elected president; W. N. Rudd, first vice-president; N. H. Carpenter, second vice-president; Ernst Wienhoeber, third vice-president and treasurer. Two members were nominated for the secretaryship, Jas. H. Burdett and N. P. Miller. In view of this double nomination it was decided to notify all the members of the fact and the election of secretary, assistant secretary and executive committee was deferred until February 9. The retiring members of the executive committee are J. C. Vaughan, W. N. Rudd, August Poehlmann and J. B. Deamud. The executive committee was given authority to hold a flower show next fall if that course should be considered expedient.

Chas. W. McKellar

51 Wabash Ave

CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in **Violets, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

WEILAND - AND - RISCH

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CUT FLOWERS

58 Wabash Ave., CHICAGO.

'Phone Central 879.

Write for our wholesale price list.

WHOLESALE FLORISTS

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

My plan for saving you money in your buying would interest you. If you are a buyer of cut flowers let me hear from you.

21 Wabash Avenue, CHICAGO.

Chicago Delegation to Indianapolis.

The Chicago delegation at the carnation meeting in Indianapolis include Geo. Asmus, August Poehlmann, C. L. Washburn, W. N. Rudd, A. T. Hey, A. F. Longren, M. Barker, P. D. Casey, Emil Fransen, R. S. Woodyard (of Sharp, Partridge & Co.), Frank Johnson and T. E. Waters (of A. L. Randall Co.), J. H. Pepper, H. W. Howard, Fred Lautenslager (of Kroeschell Bros. Co.), C. Pruner (of E. H. Hunt), E. F. Korosky (of John C. Moninger Co.), Geo. M. Garland, E. F. Winterson, Fritz Bahr, J. C. Vaughan, Chas. F. Harrison (of Pulverized Manure Co.), Joseph Kohout. Most of the above occupied a special car leaving over the Pennsylvania Tuesday midnight. J. A. Valentine, Denver, Colo., Nic Zweifel, Milwaukee, Wis., and A. T. Pyfer and Peter Olsem joined the local delegation. L. Coatsworth left the city Monday night for New Castle, Ind., intending to go from there to Indianapolis.

E. F. Winterson Co.

45-47-49 Wabash Ave., CHICAGO.
Long Distance Phone, Central 6004.

Wholesale Cut Flowers and Florists' Supplies

All cut flowers in season at Chicago market quotations

Write for our NEW SUPPLY CATALOGUE. It will interest you.

Consignments of CUT FLOWERS Solicited.

"THE BUSIEST HOUSE IN CHICAGO"

Wants Your Business

J. B. Deamud Co.
51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders ——given prompt attention.——
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty.....
WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO, Jan. 27.

Roses	Beauty, extra select	6 00
"	" 36 in	5 00
"	" 30 in	4 00
"	" 20 to 24 in	2 50@ 3 00
"	" 15 to 18 in	1 50@ 2 00
"	" 12 in	1 00
"	" Short	75
		Per 100
"	Bride, Bridesmaid select	10 00@12 00
"	" medium	6 00@ 8 00
"	Chatenay, select	10 00@12 00
"	" medium	6 00@ 8 00
"	Golden Gate, Uncle John	6 00@10 00
"	Kate Moulton	6 00@15 00
"	Killarney, select	12 00@15 00
"	" medium	8 00@10 00
"	Mrs. Marshall Field, select	12 00@15 00
"	" medium	6 00@10 00
"	Perle	6 00@12 00
"	Richmond extra select	12 00@15 00
"	" medium	8 00@10 00
"	" short	6 00
Carnations		2 00@ 4 00
Callas	per doz.	2 00@2 50
Cattleyas	($9 00 per doz.)	60 00@75 00
Daisies		50@ 2 00
Freesias		3 00@ 5 00
Gardenias	per doz	6 00
Hyacinths, Roman		3 00@ 4 00
Lilium Harrisii	per doz.	2 00 15 00
Lily of the Valley		3 00@ 4 00
Narcissus, Paper White		4 00
Pansies		1 50@ 2 00
Stevia		1 00@ 2 00
Sweet Peas		75@ 1 50
Tulips		3 00@ 4 00
Violets, single		75@ 1 50
" double		75@ 1 50
Adiantum		75@ 1 00
Asparagus Plum. strings	each	50
" sprays		2 00@ 4 00
" Sprengeri		2 00@ 4 00
Boxwood	per bunch	35
Ferns, fancy	per 1000	2 00
Galax, green	per 100 15; per 1000	1 00
" bronze	per 100 15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax, Wild	per 50 lb. case	5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

Zech & Mann

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Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

St. Louis.

PRICES HOLDING UP.

The market this week has held up well, notwithstanding the very inclement weather. The recent heavy snows have melted and made walking uncomfortable and transient trade has suffered. Carnations have held up well at $2-$3 per 100, although the down-town stores have signs in their windows advertising carnations at 25 cents per dozen. These of course are sleepy and not really worth anything. Roses are scarce, bringing good prices; violets held at 75 cents per 100 the first part of the week, but at time of writing are selling at 60 cents, and with the bright warm weather the prospects point to a further decline. Trade is reported as slow; even funeral work has not been heavy during the past week.

NOTES.

The Henry Shaw management has decided to do away entirely with the annual banquet given to florists and nurserymen and to put the money into improvements at the garden. As the trustees have thought fit to set aside the wishes expressed in the will of the late Henry Shaw in this particular, it would be also advisable to allow the garden to be open to the public every Sunday in the year instead of only two Sundays as the will of Henry Shaw provided.

A meeting of the Engelmann Botanical Club postponed from January 11 was held January 25, at Central high school building. C. H. Thompson of the Missouri Botanical Garden speaking on twigs of woody plants in winter.

Henry Kahrs held his formal opening at his store 605 Locust on Saturday. Every lady visitor was presented with a large floral card of a vase of American Beauty roses suitable for framing. Music was also furnished.

Kalisch Bros. have improved their store and carry a fine line. Their location at Taylor street and Delmar avenue is a very prominent one.

Kingsley of the Mullanphy Floral Co. is on the sick list so his partner, Wm. A. Seeger, Jr., has to do double work at this busy store.

Paul Scheider, who recently had a fire at his greenhouses, will build a new house 20x100 feet for carnations.

Hugo Gross is now cutting some of the finest California violets that enter this market.

W. F.

Minnesota Florists' Association.

The regular monthly meeting of the Minnesota State Florists' Association was held in the new hall, 510 Snelling avenue, St. Paul, on Tuesday, January 19. The new tables provided for the exhibits were in place and a nice array both of plants and cut flowers was shown. While the attendance was not up to expectation, the interest shown by those present was very gratifying. The out-of-town members present were G. A. Clausen, Albert Lea, and A. N. Kinsman, Austin. We also had as visitors, A. Ringier and L. Henderson, of Chicago and — Jantzen of Hillegom, Holland, each of whom addressed the meeting and added to the interest of the occasion.

The entertainment committee, through O. J. Olson, reported having made arrangements for a dance and card party to be held in U. C. T. hall, St. Paul, the evening of February 15, tickets $1 per couple, extra ladies 50 cents. This hall is one of the finest in the city, if not the very best, is centrally located and it is earnestly hoped by the committee that the trade in general will attend and make it a rousing success. The social features of the association should not be overlooked as they tend to bring the trade into closer communication, make better acquaintances and in general create a good feeling.

The report of the committee on the proposed state fair premium list, which was presented at the last meeting, was unanimously adopted and the committee instructed to use all means in its power to induce the state fair managers to accept the list; to make a separate division for floral exhibits and to allow the Florists' Association to name a superintendent for it.

A. Swanson of the committee on awards exhibited samples and quoted prices on blanks for the society's use, and was instructed to procure same, as well as a seal for the use of the association. O. J. Olson read a very interesting paper on the "Retailer's Profit in Flowers," which was quite generally discussed by those present. After some discussion of the matter the executive committee was instructed to ascertain the feeling of the trade in the twin cities and report at the next meeting the advisability of holding a fall flower show.

The committee on awards reported as follows: Certificates of Merit—to Carl Haugen, for double cyclamen scoring 85 points. To Aug. Swanson for Lilac Marie LeGrey, scoring 80 points. To Louis Boeglin for Primula Sinensis scoring 85 points. To E. Nagel & Son for Winsor carnations scoring 85 points. Honorable mention to Louis Boeglin for Primula Kewensis scoring 75 points. To E. Nagel & Son for lily of the valley scoring 75 points. Theo. Wirth on behalf of the Minneapolis bowlers challenged the St. Paul bowling team to a match in Minneapolis January 28. This challenge was instantly accepted by Mr. Olson of the St. Paul team and a great deal of sport is looked for.

S. D. DYSINGER, Sec'y.

Indianapolis.

THE MARKET GOOD.

The market has been very good the past week with a good supply and fair demand. The spring flowers coming in now take the place of carnations and roses. There is a strong demand for yellow bulbous stock, such as daffodils and tulips and they bring a good price this early in the season. There has been quite a lot of funeral work in the past week and all retailers report that they had their share of it.

NOTES.

E. A. Nelson had the decorations at the German house, while A. Wiegand & Sons had the decorations at the Columbia club Thursday night for the banquet given by the State Florists' Association to the American Carnation Society. The carnation exhibition was well advertised throughout the city.

A. Wiegand has been serving on the jury the past two weeks. He had the pleasure of being kept away from home two nights, being on a hung jury. Clarence Green of this firm has been off duty several days attending to household duties, as he has changed place of abode.

The firm of Bertermann Bros. as well as John Rieman report business as very satisfactory.

Smith & Young and Homer Wiegand say that their orchids are off crop just at present.

Baur & Smith are cutting some very fine carnations.

F. W. G.

Pasadena, Calif.

At the last regular meeting of the Gardeners' Association, held January 15, the election and installation of officers took place as follows: Otto Heutschy, president; James MacGillivray, vice-president; R. Mackenzie, secretary; John Blake, treasurer; R. Pegg, D. W. Coolidge and O. W. Howard, trustees; Robert Kroll, sergeant-at-arms.

R. M.

MANCHESTER, MASS.—Magnuson & Hylen, have erected a storage shed in the rear of their greenhouses on Bridge street.

PETER REINBERG,

35 Randolph Street, CHICAGO.
Phone Central 2846.

Largest Grower in the world.....

Will Take Best Care of Every Order.

1,800,000 Feet of Glass.

PRICE LIST:

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$5 00
36-inch stems	4 00
30-inch stems	3 00
24-inch stems	2 50
20-inch stems	2 00
15 inch stems	1 50
12-inch stems	1 00
Short stems	75

	Per 100
MRS. MARSHALL FIELD	
Extra select	$10 00 to $12 00
Medium	5 00 to 8 00
RICHMOND and KILLARNEY	
Select	10 00 to 12 00
Medium	5 00 to 8 00
GOLDEN GATE	4 00 to 8 00
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and BRIDESMAID	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
CARNATIONS	2 50 to 3 00
VIOLETS	1 00 to 1 50
ADIANTUM	1 00 to 1 50
ASPARAGUS	50c to 75c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

Red Bank, N. J.

The fifth annual banquet of the Monmouth County Horticultural Society was held at the Sheridan hotel, January 20. The dining hall had just been painted and decorated and was much commented on. The new proprietor made great efforts to make this the best we ever had. Dr. Walter S. Whitmore acted as toastmaster in his usual spirited manner. The tables were invitingly set and the floral decorations were splendid. Prof. Wilbur Gardener entertained during the dinner with piano selections and speech making lasted until long after midnight.

Some of the prominent outside guests were Rev. E. J. Egan, W. Nash and J. A. Kemp of Seabright; W. R. Seymore, West End; B. Wykoff, Asbury Park; C. H. Logan, Frank Rudolf, H. Poshel, Elberon; P. Ewen, James Kennedy, A. Bauer, Deal; A. Herrington, W. Duckham and Chas. Totty, Madison; A. Wilson, Summit; J. Cahill, Locust; Wm. Scollay, A. J. Rickards, W. C. Rickards, H. H. Holden, Rev. James A. Reynolds and Dr. Edwin Fields, New York; A. C. L. Vincent, Quebec, Canada. There were over 100 members and guests.

B.

WE WANT SOME MORE BUYERS OF

A NO. 1 CUT FLOWERS

WE HAVE THE GOODS THAT WILL INTEREST YOU.

HOLTON & HUNKEL CO.,

462 Milwaukee St., Three Long Distance Telephones MILWAUKEE, WIS.

Without doubt the Best Equipped Wholesale House in the West.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.

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Florists' Supplies and Wire Designs.

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Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Greenhouses, NEW CASTLE, IND.

MOHAWK, MICH.—The Lutey Floral Co. has placed the agency for its trade here with Fred Moliter.

Wholesale Flower Markets

ST. LOUIS, Jan. 27.

Roses, Beauty, long stems	3 00@ 4 00
" medium stems	2 00@ 2 50
" short stems	50@ 1 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	5 00@10 00
" Ivory	4 00@ 8 00
" Killarney	6 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	5 00@ 8 00
" Richmond	5 00@ 8 00
Carnations, common	1 50@ 2 00
" fancy	2 50@ 3 00
Freesia	2 50@ 3 00
Hyacinths Romans	1 50@ 2 00
Lily of the Valley	3 00
Narcissus, Paper White	2 00@ 2 50
Violets	40@ 60
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $1 75	
Smilax	12 50

CINCINNATI, Jan. 27.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Hyacinths, Roman	2 00@ 3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	3 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Calax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Jan. 27.

Roses, Beauty, special	6 00
" fancy	4 00
" shorter	2 00@ 3 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	2 00@ 3 00
Callas	8 00@10 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	3 00@ 5 00
Narcissus	2 00@ 3 00
Stevia	75@ 1 25
Violets	75@ 1 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	1 50
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00
Smilax, Wild, per case	3 00@ 5 50

MILWAUKEE, Jan. 27.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	2 00@ 4 00
Hyacinths, Roman	2 00
Lilium Giganteum	15 00
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	2 00@ 3 00
Sweet Peas	50@ 1 00
Violets	75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	25 35
" Sprengeri	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz	1 50

Wietor Bros.,

Wholesale Growers of CUT FLOWERS.

51 Wabash Avenue, CHICAGO.

PRICE LIST

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75

	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	4 00
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00

ROSES, Our Selection, $5.00 per 100

Carnations,	Per 100
Fancy	$ 3 00
Good	$ 1 50 to 2 00

THE

J. M. McCullough's Sons Co.

Wholesale Commission Florists.

CONSIGNMENTS SOLICITED.

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Geraniums FOR SALE

S. A. Nutt, crimson, Jean Viaud, pink and and Rose Geraniums, 2¼-in. pots, $2.50 per 100

Buffalo Cut Flower Co.,

495 WASHINGTON ST., BUFFALO, N. Y.

Long Distance Phones:

Bell Seneca 3762. Frontier 3607

WALDENA, MINN.—C. E. Robinson will build a new greenhouse in place of his present one.

New York.

TRADE ENCOURAGING.

The condition of the cut flower market during the past week was more encouraging. While it is true that there was no great boom in prices, the market had a healthier tone and both wholesalers and retailers seemed more satisfied. There is no great demand for American Beauty roses and it is hard to raise the wholesale price above 50 cents. Tea roses of the best grades have not been plentiful and prices have held firm, but nobody knows what another week may bring forth. Carnations are in very fair supply and there is nothing unusual to note in prices. As to violets, an experienced dealer recently remarked: "I firmly believe that more violets are now being sold on the streets of this city than in the retail stores"; and it looks that way. When a bunch of violets large enough for a corsage bouquet, can be bought on a street corner for 25 cents, it does not appear that the violet industry is in a flourishing condition; and this too at a time when the output is said to be below the average. It may save some good men from disappointment and financial loss to state here that the violet industry is now, and for some time past has been, overdone. Writing as sentimentalists, we would deplore the decadence of the violet; but, since we try to furnish all branches of the trade with information that will do them some good, it is time to call a halt on violet growing.

January 25.—Arrivals are light and prices hold firm. It now appears that most of the growers, profiting by sad experience, have been more cautious this season than heretofore, in the matter of bulb stock. Thus far there is no surplus. We hope this condition will prevail throughout the season.

FLORISTS' CLUB—CARNATION NIGHT.

February 8 will be carnation night at the Florists' Club and Secretaries Young and Harry O. May are working hard to make it a success. This night is a special feature of the club and postals have been sent out to many of the principal carnation growers requesting exhibits of standard varieties or novelties to which the certificate of the club will be given and good advertising is bound to accrue. Exhibits from a distance must be expressed prepaid and addressed to John Young, 51 West Twenty-eighth street, New York, when they will have proper attention and be staged in an attractive manner.

NOTES.

The annual dinner of the Florists' Club will be at Shanley's, on Broadway near Forty-second street, on the night of February 20. The name of Shanley has a national reputation and is something to tie to providing you want good things to eat. We believe the dinner committee of the club has done its best and it now only remains for the membership to give its support. Tickets, admitting lady and gentleman can be bought at the leading wholesale stores on Twenty-eighth street for $7. An attendance of 300 can be accommodated. The Roman banquet room is to be used and beautifully decorated for the occasion. The time is 6:30 sharp.

Mrs. Wm. Lyons of Bernardsville, N. J., died on January 22, interment taking place at Newark, on January 25. In years past, Mrs. Lyons was well known in the wholesale district of this city as Mary Hart, she being a daughter of James Hart, the oldest wholesaler of the district. A number of fine floral offerings were sent from here to her funeral, noteworthy being those sent by Manager Trumpore of Small's, Alex. Warendorff, Ford Bros. and Patrick Donohoe. Mrs. Lyons was highly esteemed for her many fine qualities of mind and heart and universal sympathy is expressed for her bereaved relatives. She was 30 years of age.

"For humanity's sake, give the horse a square deal." During the past week of icy streets, many of us have been shocked by the brutality of many owners and drivers of horses. A noteworthy exception was Chas. A. Small, managing partner of the firm of J. H Small & Sons. Mr. Small has always been noted for his humane and kindly feelings for dumb animals. Just as soon as the streets became slippery, he had all his horses equipped with a new device, the self-fitting emergency overshoe, to prevent slipping and it is pleasing to state that his good example has been followed by others.

Gabriel the Florist, of 508 Columbus avenue, has been very seriously ill for several weeks with pneumonia, but is now believed to be out of danger. Before coming to this city Mr. Gabriel was for 10 years engaged in the florist business in Paris, France. He is known as a fine designer and decorator and it is hoped that he will soon again be able to attend to business.

A. Ehrmann, whose store is at 2112 Broadway, executed a noteworthy dinner decoration on January 16 at the Ansonia hotel. H. L. Stoddard of the Evening Mail gave the dinner to a number of prominent business men, Vice President-Elect Sherman being the guest of honor. The decoration consisted largely of an elaborate display of poinsettias.

The sympathy of all branches of the trade is extended to J. Walter Reimels on the death of his wife, a bride of but seven months, January 20. Mr. Reimels is well known to those who deal with the New York Cut Flower Co., his father, John Reimels, being a well known grower and prominent citizen of Ozone Park, Woodhaven, L. I.

The New York Fleischman Stores, which was recently incorporated to take over the floral business of Joseph Fleischman, has leased from Walter J. Salomon the corner store in the Bristol building, at 500 Fifth avenue, northwest corner of Forty-second street.

Visitors: E. J. Fancourt, Philadelphia, Pa.; J. N. Champion, New Haven, Conn.; Patrick Welch, Boston, Mass.; E. Allan Pierce, Waltham, Mass.; S. J. Reuter, Westerly, R. I.; John C. Hatcher, Geo. S. Hatcher, and family, Amsterdam, N. Y.

European Horticulture.

FROM THE FRENCH TRADE PAPERS.

FORCING HYDRANGEA PANICULATA.—This plant forces readily enough. For cutting it is necessary only to lift the plants during the fall and pot in rather small pots, keeping the atmosphere very moist and the plants well protected from the sun's rays. The branches should be pruned rather short, as it blooms on the new shoots; when the buds show, more light and air may be given. For plants in pots we begin later, in February or March, keeping the plants nearly dormant up to that time; then place in a temperate house, and good bloom should result about the middle of May.

GERBERA HYBRIDS.—One of the principal attractions of the Paris autumn flower show was the magnificent collection of cut flowers of the new gerbera hybrids. These new and charming flowers were shown by Adnet, of Antibes, who, in the three years since their first introduction, has obtained a long series of remarkable colorings, from pure white through the various shades of red and yellow, orange and salmon. Six of the most distinct have been named, and have received certificates of merit.

PLANTS POISONED BY AMMONIA VAPOR.—A carload of azaleas arrived in Berlin from Dresden recently with their foliage blackened. Prof. Sorauer pronounced it ammonia poisoning, and on investigation it was found that the car had carried cement, and later sulphate of ammonia. Remnants of these two substances left in the cracks and on the car floor had combined chemically, freeing ammonia gas and destroying the azaleas. The railroad company was obliged to pay damages.

ROSE LYONS RAMBLER (Climbing polyantha).—A new coloring in the Crimson Rambler group. Foliage deep green; flowers numerous (25 to 40 in the cluster), perfect cup shape, petals very bright rose, shading to carmine, with a large silver white guard. This variety has received medals from the Horticultural Society of the Rhone, the exposition at Dijon and the Lyons Horticultural Society.

ACONITUM WILSONI.—Received among recent importations from China, this aconite is one of the finest acquisitions for the border; the largest and most majestic of the aconites, for its very straight, strong stalks easily attain five or six feet in height. The flowers are large, a pretty deep blue, and borne in long terminal branching spikes in August and September.

DWARF PETUNIA, ROSE PINK.—This striking new petunia comes from M. Bruant, and is the best petunia for beds or borders. The color is an extremely fresh and pretty rose pink, the flower semi-double, and very abundant, and, best of all, the stalks strong and stiff, instead of lying upon the ground after the manner of the older sorts.

CINERARIA HYBRIDA MATADOR.—A dwarf plant, foliage broad, light and spreading; flowers carried showily above it, of a brilliant but deep and beautiful red. It is bound to become a most popular variety. It comes 50 to 60 per cent true from seed, and is an entirely new and pleasing color.

CHARLES BALTET, celebrated pomologist and nurseryman, of Troyes, France, who died November 24, 1908, at the age of 79 years was widely known, and presided at the first French pomological congress in 1856, since which time he has been constantly active in horticultural lines.

DWARF WHITE DOLICHOS.—Grows not over two feet high, with long spikes of white flowers, which are succeeded by ornamental, creamy white pods. It likes a warm, sunny location, and is best started in March or April and set out in May.

ASTILBE GRANDIS.—A new early white variety introduced by Vilmorin from China; its great merit is in its adaptability to outdoor culture, as with its full growth and plentiful foliage it forms handsome masses or single specimens.

THALICTRUM DIPTEROCARPUM.—A new variety from western China; glaucous green foliage, resembling T. aquilegifolium; flowers in loose panicle, 10 inches long, lilac in color, contrasting with the pale yellow stamens.

A NEW Anemone Japonica, White Giant, is distinguished for the large size of its flowers, which are semi-double, pure white; it was recently awarded a certificate of the first class by the Holland Bulb Society.

TUNICA SAXIFRAGA, double, a new variety from Dedemsvaart, Holland, is a great improvement on the single variety, and both are said to be very desirable for borders or planted among bulbs, etc.

CAMPANULA LONGYSTYLA.—A new hardy campanula from Trans-Caucasia; the stalks, branching from the base, grow about four feet high and produce drooping bells of a pretty violet color.

HYDRANGEA ARBORESCENS GRANDIFLORA.—A novelty of Lemoine; very hardy shrub, with panicles of large snow-white flowers, blooming June to August; adapted also for forcing.

NEW ROSE, MISS EVA (Tea).—Dark foliage, medium bush, bud very long, on a long stem; flower large, double, opening well; color deep, brilliant, saffron yellow.

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Wholesale Commission Florist.

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Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Jan. 27.

	Per 100
Roses, Beauty, special	40 00@50 00
" " fancy	30 00@40 00
" " extra	25 00@30 00
" " No 1	10 00@15 00
" " No. 2	4 00@ 6 00
" " No. 3	2 00
" Bride, Bridesmaid, extra and special	6 00@10 00
" No. 1	3 00@ 5 00
" No. 2	2 00
" Killarney, special	10 00@12 00
" extra	8 00@10 00
" Richmond	3 00@15 00
Carnations fancy and special	4 00@ 6 00
" common	1 00@ 1 50
Callas, per doz.	75@ 1 00
Cattleyas	20 00@40 00
Freesias, per bunch	25
Gardenias, per doz.	1 00@ 4 00
Hyacinths	50@ 2 00
Lilac, Cut, per bunch	75@ 1 25
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	1 50@ 2 50
Mignonette, per doz.	50@ 75
Narcissus (Paper White)	1 50@ 2 00
" (Yellow)	2 00@ 4 00
Stevia, per bunch	15
Sweet Peas, per doz bunches	1 00@ 2 00
Tulips	1 00@ 3 50
Violets	30@ 60
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

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Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising.

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Philadelphia.

ROSES SCARCE.

The feature of the past week was the scarcity of flowers. Everything in roses was very scarce; all the growers say they are off crop. It was very difficult to get stock enough to go around and dealers with late orders were put to great inconvenience to get them filled with anything like satisfactory flowers. The volume of business was not large; in fact, it was quiet all around. Had there been much demand, prices would have gone skyward quickly; as it was, there was no advance. On Monday (January 25) there was quite a change, there being a noted increase in the quantities of stock arriving over the shipments of a week ago. Bulbous stock is increasing rapidly in quantity. Tulips in various colors and daffodils (Golden Spur) are now found in all the commission houses. Freesia of good quality is in stock and sells well. The supply of good sweet peas is also much better and they sell readily. Snapdragon is scarce but the growers say that a little sunshine will soon bring out a good supply. The commission houses report a fairly good out-of-town demand, particularly in the better class of flowers. This city is getting to be quite an orchid center and several large orders were shipped last week. Cattleyas were never finer than this season, some very choice stock being seen the past week.

NOTES.

The monthly meeting of the Florists' Club February 2, is to have as a feature an exhibit of carnations. All the new ones of this vicinity will be there while quite a number of growers bidding for national popularity have been invited and it is expected that the exhibition will be a notable one. Joseph Heacock and Albert M. Herr, fresh from the national show at Indianapolis, will give a résumé of what they saw, and their interesting talks, together with other speakers, will make this a memorable meeting.

There have been several changes in the forces of the commission houses. Robert Shock has resigned his position with the McKissick Bros. and joined the ranks of the salesmen with M. Rice & Co., the florists' supply dealers. Herman Krienberg has also left McKissick's and enlisted under the Niessen banner, where he will certainly find plenty to do. Charles Grey, formerly with Edward Reid, and W. J. Baker, have gone to McKissick's. Harper Hetherington has also joined the force here.

The store windows are now brilliant with decorations of azaleas which are to be had in all shades of pink—very shapely plants. Pennock Bros. had a very pretty decoration in shades of pink using azaleas, cibotiums and modèux baskets of pink roses, pussy willows, lilac and Adiantum Farleyense. The bottom of the window was covered with blue plush velvet on which was laid miniature bouquets in small papers.

Edwin J. Fancourt, the secretary and popular representative of the Pennock-Meehan Co., was married on Wednesday last to Miss Elsie Hodson of Roxborough. The best wishes of the trade generally will be extended to this couple for a long and happy life.

Robt. Craig, John Westcott, Julius Roehrs and Daniel Donoghue sail on Saturday, January 30, for Cuba and the Isle of Pines. They expect to be gone from three weeks to a month. The trip is mostly for rest and recreation.

Alexander Scott left on Monday last for a two months' stay at Summerville, N. C., where he goes for health and recreation, he being vice-president of the Golf Club there.

Victor Redinour, who has been with Gracey and later with Ehret, has purchased the business of J. Wolff, Jr., of Ridge avenue and Dauphin street.

The Leo Niessen Co. is handling some very choice white laelias and cattleyas. They report business a trifle slow but satisfactory.

W. Atlee Burpee and W. Atlee Burpee, Jr., sailed on the Oceana on Saturday for a month's tour of the West Indies.

At McKissick's the features are choice freesias and a fine lot of spring flowers, tulips, daffodils and sweet peas.

H. F. Michell is spending a few weeks in Florida as is also J. Siddon Pannock.

K.

Boston.

ROSES SCARCE.

The week started in with a solid winterish appearance in the way of a heavy snow fall. Following this we've experienced lots of rain and a few balmy spring days. In spite of these sensational turns the general list of stock has shown a slight improvement. Funeral work has been more brisk. The rose market has grown remarkably short and prices are high. American Beauty, though coming in slowly, is in prime condition. A superb lot is available and bringing $6-$7.50 per dozen. The demand is not heavy, just enough to keep the stock moving well. Richmond has improved somewhat. Killarney is unreliable and is rapidly losing favor. Bridesmaid has been practically abandoned by the leading growers. Chatenay, whose one fault is its inability to produce profits for the growers, is available only in small lots and these are of an ordinary quality. Carnations are selling somewhat better and prices hold well, with very little variety of grades. The best are bringing $3 per 100. A stock of jonquils embracing the best qualities of these spring flowers is with us and find a ready market. They easily bring $4 and the selected class returns $5 per 100. Easter lilies and callas are unusually scarce and the cheapest demand $1.50 and in many cases $2 per dozen. Violets are abundant but not selling rapidly.

NOTES.

W. H. Nicholson, whose name easily suggests the highest degree of commercial cultivation, is displaying a line of freesias that is seldom equalled in this market. For many years a successful aspirant for honors in this product he has again shown his ability to eclipse previous records and has a wonderfully attractive flower exhibited in its best form.

W. L. Lewis, conducting a retail store on Main street, Worcester, a consumer attached to the local market, has been petitioned into bankruptcy with liabilities approximating $3,000, assets uncertain. A long list of creditors composed chiefly of local growers hold claims of various amounts up to $500, the greatest amount.

J. S. Philbrick, of Woburn, an extensive grower of violets, had a novel experience January 21 when a handsome fawn chased by hounds ran into his greenhouses and fell exhausted at the owner's feet. Mr. Philbrick cared for the beautiful animal and is holding it for the state fish and game commission.

John Walke, the plant specialist of Salem, is sending to market a collection of handsome cyclamens. His stock is ably handled by his sales agent, Jacob Cohen, in the Music Hall Market.

There will be a meeting of the creditors of Quinn Bros. at the Park Street Market January 30 to decide upon the plan of procedure offering the best advantages for all.

B.

Boston Co-operative Flower Growers' Ass'n

ANNUAL FLOWER SHOW.

The advance premium list of the annual flower show to be held under the auspices of the Boston Co-operative Flower Growers' Association has been sent out by E. Allan Pierce, secretary and treasurer. This is strictly a commercial show run by commercial men; last year's show was a great success and there is every reason to think that the present year's exhibition will be equally successful. There are a number of expert growers in the east and among the better known people taking a keen interest in this show we notice such names as Alex. Montgomery, Wm. Nicholson, Peter Fisher, M. A. Patten, Wm. H. Elliott and many others. The final premium list will be issued about February 1, but there are in the advance list 62 different classes for carnations, roses, sweet peas, violets, bulbous stock and many other flowers, including a $25 silver cup for the best 12 pots of Easter lilies offered by the Henry F. Michell Co. of Philadelphia, $25 and $10 prizes by Anton Zvolanek, Boundbrook, N. J., for collections of sweet peas and a number of prizes given by the Park Street Market. The committee in charge of the arrangements consists of Wm. H. Elliott, Brighton, E. Allan Peirce, Waltham, Geo. Cartwright, Boston, S. J. Goddard, Framingham, Wm. Sim, Cliftondale, and Wm. R. Nicholson, Framingham. S. J. Reuter, Westerley, R. I., Thos. Roland, Nahant, A. H. Fewkes, Newton Highlands, E. A. Wood, West Newton, and A. H. Lange, Jr., Worcester, are judges.

LOWELL, MASS.—Wm. J. Gallagher, 17 Gorham street, disregarded the direction to close his shop on Sunday.

MUSHROOMITIS.—That is the name given to the absorbing pursuit of mushroom growing by a writer in the general press. This writer has queer, wild views on the subject, a sample of which follows: "Growing mushrooms is a mental disease. When the status of the amateur grower is a little better determined by the psychologist, municipalities will establish "mushroom asylums" for the detention of these enthusiasts. The man who eats the domesticated mushroom is bad enough; the man who risks eating the wild ones is worse. But the man who hauls livery stable garbage cans into his basement and sows bricks broadcast into the steaming, smelly compost over which he has done day labor enough to satisfy the Bridewell on a 30-day sentence ought to be in a straitjacket."

Annual Carnation and Rose Show

Feb. 27-28.
300 Mass. Ave.

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Horticultural Hall

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Boston Co-operative Flower Growers' Association

NEW ENGLAND'S LEADING COMMERCIAL SHOW

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Rose Plants
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All the new and standard varieties. Send for list and prices.
Stock Guaranteed.

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Lily of the Valley, Carnations and all Tea Roses,
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Extra large heavy Strings, 50 cents each.
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ABSOLUTELY THE BEST POSSIBLE SERVICE.

Violets, Roses, Valley,
GARDENIAS
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Wholesale Flower Markets

PHILADELPHIA, Jan. 27	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Violets, single	35@ 50
" double	1 00@ 1 50
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Jan. 27.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	2 00@ 8 00
" Chatenay	2 00@ 8 00
" Killarney	2 00@ 8 00
" Richmond	2 00@ 8 00
Carnations	2 00@ 4 00
Cattleyas	75 00
Lilium Longiflorum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	8 00@12 00
Snapdragon	2 00@ 4 00
Sweet Peas	50
Violets, single	25@ 35
" double	50@ 75

BOSTON, Jan. 27.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

The Best Lilac and Yellow Daisies
IN PHILADELPHIA.
JOHN McINTYRE,
1601 Ranstead St., Philadelphia, Pa.

Recent Fires.

HIGHLAND PARK, N. J.—The extensive private greenhouses of R. W. Johnson were partially destroyed by fire January 13. The damage to the buildings is estimated to be about $2,000, but in addition to this, thousands of valuable plants were destroyed. The fire started in the boiler house in some unknown manner and was discovered by the head gardener, W. J. Mahan, about 7 o'clock. As soon as possible after the fire, stoves were temporarily rigged up to heat the remaining greenhouses, but it is feared that many hundreds of the more delicate plants were nipped by the frost before the heat could be supplied. Mr. Johnson after a visit of inspection next morning, said that most of the plants were destroyed and he thought the loss would probably be between $8,000 and $10,000, partially covered by insurance.

GRAND JUNCTION, COLO.—A fire discovered January 6 in the building of the Grand Valley Floral Co., burnt out the inside of the building before the water completed the work of destruction. It is presumed that the fire was caused by an overheated furnace. It had been smoldering some time before the night police discovered it. Alarm was immediately turned in and roused the family who lives in the second story. They got out in safety and took refuge in the La Court hotel. The fire department succeeded in confining it to the basement and lower story of the building. The interior was entirely gutted. The loss was partially covered by insurance.

MINOT, N. D.—A sudden blaze January 17 destroyed the entire stock in Valker's Minot Greenhouses and damaged a large amount of furniture. The damage to the building is but slight, several of the windows having been broken by the heat. The fire started in the basement, where the heating plant is located. It had gained a good start before the proprietor Geo. E. Valker, who sleeps in the building, noticed it, and before the department arrived the stock was wrecked. This is a severe loss to Mr. Valker, as he had but recently started in business, but he pluckily and at once commenced repairs and rebuilding.

DUBUQUE, IA.—Fire at Harkett's Floral Nursery January 11 threatened for a time to clean up the place, but the prompt action of the department set aside all doubts. Shortly after 9 o'clock flame and smoke was seen issuing from the cupola of a barn, and a good headway had been gained by the blaze. The Ninth street company was on the spot in excellent time and squelched what for a time looked to be a serious fire. The fire originated from a spark from a smokestack dropping in a pile of hay.

RIVERSIDE, ILL.—Flowers and seeds valued at $3,000 and belonging to the Thomas Martin Seed and Flower Co. were destroyed by fire January 11. The flames slightly damaged an adjacent building, a three-story brick structure, occupied by the Fox Brewing Co. The Lagrange and Berwyn fire departments assisted in checking the blaze, which caused a total loss of $5,000.

JOLIET, ILL.—A fire at the back of the store of Albert C. Rott's (Thompson—Florist) occurred January 13, but little or no damage was done, owing to prompt action in quelling it.

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KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

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Anderson, S. C.
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533 MARSHALL AVE.

Atlanta, Ga.
ATLANTA FLORAL CO.
41 Peachtree Street.

TEWKSBURY, MASS.—Albert Roper, Pleasant street, is putting up a large tank for his greenhouses. H. S. Chandler & Son, of the Boston road greenhouses, are installing a new heating apparatus.

HANCOCK, MICH.—The old officers were re-elected at the annual meeting of the Lakeside Cemetery Association January 14. The association is in good shape and it was decided to make a number of improvements and plant a number of trees this season.

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CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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CUT FLOWERS
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THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

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John Breitmeyer's Sons
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Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

A Good Window Sign.

Feb. 2, Noordam, New York-Rotterdam.
Feb. 2, Kaiser Wilhelm II, New York-Bremen.
Feb. 2, Kronprinzessin Cecilie, Bremen-N. Y.
Feb. 3, Mauretania, New York-Liverpool.
Feb. 3, Furnessia, Glasgow-New York.
Feb. 3, Kroonland, New York-Antwerp.
Feb. 3, Merion, Liverpool-Philadelphia.
Feb. 3, Adriatic, New York-Southampton.
Feb. 3, Oceanic, Southampton-New York.
Feb. 4, Sardinian, St. John-London.
Feb. 4, La Touraine, New York-Havre.
Feb. 4, Cedric, Genoa-New York.
Feb. 4, Canada, Liverpool-Portland.
Feb. 4, Koenigin Luise, Genoa-New York.
Feb. 4, Neckar, New York-Bremen.
Feb. 5, Hesperian, St. John-Liverpool.
Feb. 5, Tunisian, Liverpool-St. John.
Feb. 5, Marquette, Philadelpha-Antwerp.
Feb. 6, Laurentian, Boston-Glasgow.
Feb. 6, Corinthian, Glasgow-Boston.
Feb. 6, Lusitania, Liverpool-New York.
Feb. 6, California, New York-Glasgow.
Feb. 6, St. Louis, New York-Southampton.
Feb. 6, St. Paul, Southampton-New York.
Feb. 6, Dominion, Philadelphia-Liverpool.
Feb. 6, La Provence, Havre-New York.
Feb. 6, Finland, Antwerp-New York.
Feb. 6, Haverford, Portland-Liverpool.
Feb. 6, K. Augusta Victoria, N. Y.-Hamburg.
Feb. 6, Amerika, Hamburg-New York.
Feb. 6, Deutschland, New York-Genoa.
Feb. 6, Statendam, Rotterdam-New York.

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Dillemuth FLORIST

Can be relied on to fill all mail, telegraph or cable orders.
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Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

Kansas City, Mo.

Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

Louisville, Ky.

Established 1880.
Orders for delivery in this city and nearby points in the South solicited by
M. D. REIMERS,
Successor to Chas. W. Reimers'
329 FOURTH AVENUE.

Brooklyn, New York.

"WILSON"
3 and 5 Greene Ave. and 339 to 341 Greene Ave.
Greenhouses: Short Hills, N. J.
— Deliveries in —
NEW YORK, LONG ISLAND and NEW JERSEY.

Nashville, Tenn.

Joy Floral Co.
610 Church Street.

Colorado Springs, Colo.

FRANK F. CRUMP,
Wholesale and Retail Florist.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

F. W. BRUGGERHOFF says the purity, type and general quality of American grown seeds are inferior to those grown 30 to 40 years ago.

THE next meeting of the American Seed Trade Association is now fixed for June 22, 23 and 24 at Niagara Falls, Ont. (Can the association legally meet in Canada?)

REPRESENTATIVE HEFLIN of Alabama proposed an amendment to the deficiency bill last week appropriating $30,000 for the distribution of seeds. The amendment was lost.

F. B. MILLS Co., Rose Hill, N. Y., has established a branch at Washington, Ia., L. D. Langworthy, manager. His firm is occuping a warehouse of four floors, 40x100 feet.

VISITED MINNEAPOLIS: Wm. Hagemann, New York; Arnold Ringier, representing the W. W. Barnard Co., and Alex. Henderson, representing Vaughan's Seed Store, Chicago.

NORTHRUP KING & Co.'s catalogue, costing seven cents postage, eight of its pages being in colors, total of 136 pages, is probably the most comprehensive as to field and garden seeds ever printed in the west.

CHICAGO—The onion set market, owing to weather conditions, is very strong at about $2.75 for white; red and yellow, $2.—Visitors: L. W. Wheeler, Braslan Seed Growers Co., San Jose, Calif.; W. J. Fosgate, Santa Clara, Calif.

VISITED NEW YORK: C. P. Braslan, San Jose, Calif.; Ernst Bitterhoff, of August Bitterhoff Sohn, Berlin, Germany, growers of lily of the valley pips. This firm is represented in the United States by McHutchison & Co., of this city.

THE reports on the onion seed crop in the Canary Islands, January 26, are somewhat contradictory but Wildpret Bros. assure us that a larger acreage was planted last October and, if the crop turns out satisfactorily, it will be about one-third larger than that of last year. Even under the same conditions as last year, which were not very favorable, the crop will be much heavier.

AUGUSTUS H. GOODWIN and wife, formerly of Chicago, now of New York, are spending the winter at the Villa Igiea Grand hotel, Palermo. The place is 150 miles from Messina. Mrs. Goodwin gave an informal tea at Villa Igiea on January 2 to the visiting Americans in Palermo for the purpose of organizing an American relief board to assist in aiding refugees. Some of those present were American Consul and Mrs. Bishop, Mrs. Higgins, wife of the late Governor Higgins of New York; Miss Charlotte Higgins, Mrs. and Miss Cameron, Sydney Alexander and wife, Miss Frances Alexander, James Valentine and Harold Martin, all of New York, and Mr. Nimick of Pittsburg. Latest reports show Mr. and Mrs. Goodwin were at Rome and intended to go from there to Abbazia.

PANSIES.—Erfurt seed growers class pansies among the most capricious of seed yielding crops, according to a German contemporary. The perpetuation of highly improved strains is especially beset with manifold difficulties, they declare, since the tendency manifest in the finest varieties of pansies to revert back to the most common types, from which they sprung decades ago, is so great and all-persistent as to require complete isolation in the field and the most painstaking of care at seeding time to prevent quick deterioration. Then, too, the more perfect a variety or the higher developed the type of which the variety is a representative, the greater the propensity to sport and at the same time the disinclination to be fertilized with pollen from plants of their own set, so that the most desirable of large flowered, superbly colored strains produce but very few seeds and at some particularly unfavorable seasons none at all, while pansies of the ordinary grades bear seeds in great abundance. All of which goes to show that there are good reasons for the great difference in price between seeds of the best true strains and those of the more common kinds of pansies.

Jesse E. Northrup.
Senior Member of the Firm of Northrup, King & Co., Minneapolis, Minn., Celebrating Its Twenty-Fifth Anniversary This Year.

American Seed Trade Association.

A meeting of the American Seed Trade Association was held at the Hotel Astor, New York, January 22, with the following in attendance: Watson S. Woodruff, president; M. H. Duryea, second vice-president; C. E. Kendel, secretary; Chas. Dickinson, Geo. S. Green, Howard M. Earl and S. F. Willard, members of the committee, and A. L. Don and W. Atlee Burpee by invitation. It was decided to hold the convention June 22-24 at Niagara Falls and the Clifton house on the Canadian side was chosen as headquarters. Details of rates, programme, etc., will be announced in due time.

C. E. KENDEL, Sec'y.

Should Seedsmen Guarantee Crops?

Not being a seed dealer, it is somewhat difficult to say what I would do—and what I would not do as such, but as a seed buyer and planter I desire to say, that it would be impossible to guarantee a crop. I am growing seed for my own sowing, for the production of a few vegetables which I have improved and perfected; this seed I know to be of high germinating vitality and purity, but I would not under any circumstances guarantee a crop from these, even though they were sown by my next door neighbor and yet I know, that he could, as well as I, produce a fine crop, with weather conditions favorable and a proper regard for the conditions necessary for seed germination and plant growth.

My complaint of the seeds I buy from the seedsman, is not to the effect that they don't grow, but that they are not true to name. A seedsman may assure me that his seeds will grow, and though I have full confidence in him, I would not think for a moment to take his word for it. In this age of the test box, what's the use of depending on any man's say so? Unfortunately, however, the seed test box does not tell me anything of the purity of the seed so tested, and the seedsman, though he tells me in his catalogue of the purity, fine quality and immense productiveness, is afraid to stand back of it with a guarantee.

The seed above referred to of my own growing, I would be willing to send out and guarantee description as well as purity. Like begets like, is a fundamental law upon which rests all human progress and, while I know that a species of plant of any kind has a tendency to vary, the production of sports in a crop grown from pure pedigree seed is of a very insignificant nature.

A few years ago I purchased from a New York seed firm among other seeds a package of carnation seed. This seed was on the "novelty" page and was 25 cents per package. It was to be a mixture of different colors, even a yellow one among them; when I opened this package I found instead of seeds another package; inside of this was slipped a still smaller package and in this last one I found this precious seed. There were only a few of them, I counted them (though very small seeds)—I forgot the number, but every one grew and produced a plant. The carnation is my favorite flower, therefore, I gave those plants thorough care; now imagine, if you can, my disgust when those plants bloomed. Every blossom was simply a very common, small, white carnation, no very large yellow, no rare pink, nor that large rose colored carna-

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

tion I was promised. Some of my experience with the seedsmen leads me to the conclusion that, if promised mixed seeds you get them straight and vice versa. Last season I bought from a New York state firm, a bushel of Hudson Wax beans and three pounds of Satisfaction cucumber. Later in the season I sent for more bean and cucumber seeds from the same firm. The first shipment proved as near right and true to name as I have reason to expect, but the beans of the second shipment, instead of Hudson Wax beans were, a, to me, worthless green bean. The cucumber, instead of the long slender green, was simply a short, stubby, inferior white spine. The Jersey Pickle seed, for which I paid a special price, owing to the fact that it was a very much improved and perfected variety at great expense—proved to be the Chicago Pickle almost worthless in this market. My financial loss just in these few transactions was over $300, yet I never sent in a bill for damages, not even a complaint—what's the use?

But now, Mr. Seedsman, just between you and I, the planter really has (if you will pardon the slang) a kick coming. L. H. Vaughan, the Chicago seedsman, in an article in the R. U. G. recently said: "In closing we should like to ask, what proportion of the thousands of orders filled by the seedsmen of this country do not give satisfaction?" Now, please don't take it for granted that because you did not get more complaints, all those seeds gave satisfaction. If you could hear the complaints of the market gardener on our market or in our Association hall you would be convinced to the contrary. Again Mr. Vaughan says, "How long do you think a large seedsman could do business on a reputation for quality, without entering into the real merit of the seed in question?" He can do business in his way until someone will come to the front with better seed, or until compelled by law to stand back of his description of purity and quality. As it stands now the seed buyer has no choice: he may change from one seedsman to another, but in so doing he will not make much or any improvement of his seeds.

I have for some time given expression of the condition of the seed trade in the public press, and I wish to assure the seedsman that I am not actuated by a spirit of antagonism, but by a desire to better present conditions if possible. The planter loses thousands of dollars annually, owing principally to the fact of inferior seed or seed not true to name. In closing let me suggest to the seedsman: When you have that next convention, would it not be well to invite some real growers of vegetables and talk it over before resolutions as to non guarantee are passed? I sometimes think this would prove very beneficial to both seed dealer and seed grower, as well as the planter.

Girard, O. J. H. BOLLINGER.

[While Mr. Bollinger here mentions two aggravated cases of disappointing results from his seed purchases, he fails to name any general percentage of errors which he has experienced in dealing with seedsmen. It seems to us that this subject of error in the seedsman's work should be considered on the same basis as all error applicable to human effort in other industries. There is no dry goods merchant, grocer or druggist whose annual business will not show a certain percentage of error. Cases will occur in which goods ordered and paid for mysteriously disappear and are never found, and for which money must be repaid to the customer or order refilled. Cloths, ribbons and manufactured articles are often found deficient in quality. Canned goods, sugar and cod fish are occasionally of poor quality. Drugs of materially different nature from those sold are sometimes delivered, all of which proves that so long as "to err is human" there will be well grounded complaints made and adjusted in every mercantile house, whether that of the seedsman, druggist, or grocer.

The question then, as it relates to the seedsman, whose products from every part of the world number, with a large mail order house, 3,500 varieties, is whether these contain any larger percentage of items subject to criticism and unsatisfactory to the buyer than do the hundreds of thousands of articles of merchandise handled by other trades. A further consideration must be given to the fact that many of these seed items are produced in foreign lands, labeled in a strange language, carried 5,000 miles or more and handled under different customs. Conditions of soil, temperature and climate must also carry a further allowance. If, after considering all of the above, it is proven by well conducted tests and by reliable statistics of other trades that the seed trade contains a larger percentage of unrighteousness than any other industry, then radical remedies should be sought, not sooner. And in spite of the present half crazy tendency to legislate, it seems to us that no legislative action affecting the seed industry bearing a prison penalty for error should be inaugurated without ample proof that this industry is so far out of line with the other merchandising of the country, that it should be singled out and made a special target for proposed drastic laws. ED.]

Imports.

During the week ending January 23, imports were received at New York as follows:

Vaughan's Seed Store, two packages seed.

P. Henderson & Co., four packages seed.

H. F. Darrow, six bags seed.

Stumpp & Walter Co., one barrel seed, five cases bulbs.

To others, 1655 bags, 34 packages, two cases seed.

[SEED TRADE CONTINUED P. 32.]

Routzahn Seed Co. Arroyo Grande, Calif.

Wholesale Growers of Full List Flower and Garden Seeds.

SWEET PEA AND NASTURTIUM SPECIALISTS.

Novelties for 1909 Contract Growing now being booked.

NEW SPENCERS.

Mrs. Walt. Wright Spencer
Senator Spencer
Black Knight Spencer
Gaiety Spencer
Prince of Wales Spencer
Juanita Spencer
Blanch Ferry Spencer
Ruby Spencer

NEW NASTURTIUMS.

Dwarf Orange, variegated foliage
Tall Crœsus, variegated foliage
Tall Scarlet, variegated foliage
Tall Salmon, variegated foliage
Dwarf Variegated Ivy Leaf Princess
Golden Rose, Gold Leaved
Lilliput Lady Cherry.

WRITE FOR PRICE LIST.

Wildpret Bros. Port Orotava, Teneriffe (Canary Islands).

Largest Growers and Exporters of genuine

BERMUDA ONION SEEDS

Raised from purest strains obtained after many years' constant work.

We sell no old or mixed seeds. Our stock is true to name and quality. Those customers wishing to have a full delivery in the coming season are requested to send their orders at an early date.

☞REMEMBER THAT WE EXECUTE ORDERS FROM THE TRADE ONLY.
We want to protect our friends by SELLING ONLY TO REGULAR SEEDSMEN, and we expect also to receive your kind protection.

FIELD SEED CORN We Grow for the Wholesale Trade.

We grow all the leading best varieties; planted from pure stock, carefully selected, hand picked; butt and tip ends taken off by hand; also milled, screened and graded; highest quality and grade. Write for samples and prices, with list of your requirements, in car lots or less.

Robinson's Code. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

Rogers Brothers,

SPECIALTY GROWERS.

Purest Strains GARDEN PEA and BEAN SEED.

For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert

GILROY, CAL.

Wholesale Seed Grower

Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety. Correspondence solicited.

Seed Beans

F. L. HOGUE,

CARPINTERIA, CALIF.,

Grower for the Wholesale Trade only.

Landreths' Seeds

are the Seeds which Succeed

125 Years before the American Public.

Do you need some Black Beauty EGG PLANT

LANDRETH SEED CO., Bristol, Pa.

S. D. Woodruff & Sons

SEED GROWERS AND DEALERS.
Garden, Field and Flower Seeds.

82 and 84 Dey St., NEW YORK.

Seed Farms: Orange, Conn. OUR SPECIALTIES: Onion, Beet, Tomato, Cabbage, Cucumber, Sweet Corn, Seed Potatoes and Onion Sets.
Catalogue free. Correspondence solicited.

THE SEED TRADE.

CONTINUED FROM PAGE 31.

Livermore, Calif.

January 20.—Seed crop prospects never looked brighter than at present writing. We have had warm rains and plenty of them, but if these continue much longer, the complexion of things will change very much. The season was late, affording growers none too much time to get in the crops. It is still raining very heavily and I am afraid the Santa Clara lowlands will suffer. The island country around Stockton and Sacramento is partly flooded and reports from this section are not of a comfortable nature.

C. C. Morse & Co. have a nursery in Livermore valley, with Jas. Vallance, manager. This firm is turning out some fine nursery stock, clean and well rooted notwithstanding the dry summer season.

N.

Proposed Tariff-Legislation Changes.

ED. AMERICAN FLORIST:—

We note that both the American Seed Trade Association and the American Association of Nurserymen are making strenuous efforts to get placed on the free list of import articles hyacinths, tulips, narcissus, crocus, jonquils, lilies and lily of the valley. The writer, who has been calling on the seed and nursery trade in Great Britain and Ireland personally for 32 years, begs to draw your attention to the auction sales of Dutch bulbs, held in all towns and great villages in the United Kingdom weekly in the season, which are ruining the bulb trade with the legitimate seedsman and nurseryman, and it is his belief, that, when the act comes into force, it will be highly detrimental, as far as bulb trade is concerned, to the nursery and seed trade in the United States. With much esteem.

R. VAN DER SCHOOT,
Of the Firm R. Van Der Schoot & Son.

Jubilee Flower Show, Haarlem, 1910.

A matter of importance to buyers of Dutch bulbs for 1910 is the following:

The opening date for this show to which we have already referred is now definitely fixed for March 23, 1910. Consequently it will be open before Easter to be closed after Whitsuntide (May 15). The show will be divided into a permanent exhibition in the open and three temporary shows in buildings. The cooperation has been obtained of Boskoop, Aalsmeer and other important horticultural centers and the show will therefore afford a splendid opportunity of giving a very complete idea of Dutch horticulture, especially as far as bulb culture, nursery stock, trees, shrubs and flowers are concerned.

The first temporary show is to be held at Easter, the second later in April, during the flowering season of the bulb fields, and the third in the early days of May. Prince Henry of the Netherlands has most kindly consented to be the patron of the exhibition. Queen Wilhelmina and the Queen Mother are also patrons of the society, which organizes the show to celebrate its half-centenary.

Business Conditions.

Birmingham, Ala.—The Amzi Godden Seed Co. states that the mail order business is now in full swing. The volume is somewhat larger than last year but it started later than last year, due to the unusually favorable weather conditions in January, 1908. The prevailing high prices do not appear to retard buying either of garden or field seeds.

St. Paul, Minn.—L. L. May & Co. say that their receipts are somewhat ahead of last season up to this date and attribute this to the fact that their catalogues were out 10 days earlier than last year.

Washington, D. C.—F. W. Bolgiano & Son report that mail order business is about 25 per cent less than last year and this is attributed to the early open winter and the expectation among gardeners of a late spring.

Minneapolis, Minn.—Northrup, King & Co. state that the conditions in the northwest justify them in the belief that this year will prove a prosperous one for the seed trade in that section.

Louisville, Ky.—Wood, Stubbs & Co. report that the mail order business has opened up very well and is considerably ahead of last year.

Floral Park, N. Y.—John Lewis Childs reports business 25 per cent ahead of last year to date.

Currie Bros. Lose Suit.

A case raising a number of points of considerable interest to those engaged in mercantile pursuits was decided January 19 in the federal circuit court, presided over by Judge J. V. Quarles. The suit was brought by R. M. Ward & Co., a well known New York exporting and importing house, against Currie Bros. Co., Milwaukee, seedsmen and florists.

The dispute revolved around a large consignment of Japan lily bulbs ordered from Ward & Co. by Currie Bros., which the latter claimed reached Milwaukee too late, and further, did not conform to the quality called for by the contract of sale. It was on these grounds that Currie Bros. Co. based its refusal to pay for the bulbs, although they had accepted and used a greater part of them.

When suit was brought by the New York house Currie Bros. set up the defense that they had entered into a subsequent distinct agreement with the plaintiff's traveling salesman to return all the lily bulbs which they could not sell, and furthermore set up a counterclaim for $3,000 damages, due to late deliveries and inferior quality of bulbs. Their defenses being held inconsistent by the court the defendants were compelled to rely on the alleged contract with the salesman of the plaintiff. In this defense the court held that they had failed in two respects: Firstly, in not showing that the sales agent of the plaintiff had either the express or apparent authority from his principal to make such agreement, and secondly, if such authority existed there was no memorandum of it in writing sufficient to take it outside the operation of the statute of frauds. The court in consequence directed a verdict for the plaintiff in accordance with the demands of the complaint.—Milwaukee Newspaper.

[The verdict is for $1,000 and the case has been appealed.—ED.]

Canadian Seed Growers' Association.

The fifth annual convention of the Canadian Seed Growers' Association will be held in the Canadian building, Ottawa, Ont., February 4 and 5. The following papers will be presented: "Conditions which Affect the Vitality and Viability of Seeds," by Geo. Michaud, assistant seed analyst, Ottawa; "Observations on the Milling Qualities of Different Varieties of Fall Wheats," by Prof. Robt. Harcourt, O. A. C., Guelph; "Improvement of Corn in Canada," by Prof. L. S. Klinck, Macdonald College, Que.; "The Production of Improved Varieties of Cereals," by Dr. Chas. Saunders, Experiment Farm, Ottawa; "Our Common Barleys and the Field Open for Their Improvement in Canada," by A. P. McVannell, Perth, Ont.; "How Plants Feed," by Prof. Wm. Lochead, Macdonald College, Que.; "The Seed Plot as an Educator," by J. W. Gibson, Ottawa; "The Call of the Land," by Dr. Jas. W. Robertson.

Dr. Jas. W. Robertson, Macdonald College, Que., is president of the association and L. H. Newman, Canadian building, Ottawa, Ont., secretary-treasurer.

Vitality of Seeds Under Water.

J. J. Thornbeer discusses this subject in a leaflet sent out by the University of Arizona Experiment Station. The floods on the land adjacent to the Colorado river makes it necessary either to plant quickly, directly after the summer flood, or to sow, before the flood, seeds that retain their vitality, the latter for preference on account of the start the plants get. Various tests of vegetable and other submerged seeds have been carried out and there are tables showing the percentage of seeds that germinate after 38 days submergence, and of others after 50 days in the boxes. Alfalfa, barley, beans, berseem, carrots, cotton, cowpeas, garden peas and wheat are the least satisfactory under the tests, while others, such as Japanese and Honduras rice germinated in the water and continued growth until the soil became dry in the boxes used in the tests. Fodder plants like maize, African red top cane and millet cannot be depended on to stand submergence for any considerable time, but Johnson and Bermuda grass are not injured by submergence for 50 days.

Court Customs Decision Favors Importers.

The following decision seems right in line with the contention of the seedsmen, namely, that the real and only market value of the seeds grown on contract for them on orders placed one or two years in advance, and grown for their own especial use and in the main from their own stock seeds, is the actual price which they contract to pay and do pay:

Another step in a long drawn-out customs controversy was taken yesterday when Judge Martin in the United States circuit court handed down a decision in the Haviland chinaware cases. Judge Martin finds in favor of the firm of Haviland & Co., holding that the prices at which the firm is invoicing its entries are correct.

The differences between the government and the importers began several years ago and were the subject of an exhaustive investigation by the treasury authorities. Later, a sub-board of reappraisement brought in a decision making an advance amounting to 16½ per cent.

Finally the issue was brought before a sub-board of classification, and later, the circuit court. Testimony was placed before Judge Martin to the effect that the Haviland Limoges ware has no foreign market value within the meaning of the Dingley tariff; with the exception of a small sales department in Paris, the products are sold directly into the United States from Limoges where the French factories are located. Judge Martin, in his decision, holds that there is no foreign market value within the meaning of the tariff.

Under the circumstances, the justice announced that the invoice prices at which the firm originally entered the chinaware must be received. J. Osgood Nichols, assistant United States district attorney, said yesterday that it is probable that the government will ask the circuit court of appeals to review the decision of the lower court.

Levett & Wolff, attorneys for Haviland & Co. issued a statement yesterday in which they said:

"The importance of the court's decision in its bearing on the question of the market value of foreign goods can hardly be exaggerated. It is the first case decided by any court which upholds the right of the importer to carry a reappraisement case into the courts on the ground that there was no evidence before the reappraisement board to sustain their finding. The decision coming at a time when the domestic potters have been filling the ears of the ways and means committee at Washington with stories of awful undervaluations of French china should go far towards demonstrating to the committee the utter lack of basis for these charges. Judge Martin in his opinion after stating that he

had very carefully read all the evidence in the case fully vindicates the importers in the following language:

"There is no substantial evidence that the importers in the case at bar, in their relations with the manufacturing house at Limoges, have adopted prices of invoice on the basis of a purchase price that is fraudulent, dishonest, or even unfair. The history of previous transactions by these importers, their negotiations with the government heretofore, and the prices paid by other importers to other manufacturers of china at Limoges, negative such an inference.

"The opinion is further important in that it practically sustains the construction of section No. 19 put thereon in the German reciprocity agreement. While the court does not in so many words pass upon the construction, Judge Martin quotes, it was evidently approved.

"The court also comments on the methods pursued by the special agent in the case by the statement that the tariff law phrase about principal markets 'cannot fairly be construed to mean that special agents of the treasury department may, by searching France, find some place where there have been some purchases at wholesale at a higher price than in the principal market, and a board of appraisers adopt that as a basis of valuation.' "—New York Commercial, January 20, 1909.

Catalogues Received.

J. M. Thorburn & Co., New York, preliminary list of vegetable seeds; W. Atlee Burpee & Co., Philadelphia, Pa., seeds; Texas Seed & Floral Co., Dallas, Tex., seeds; The Barteldes Seed Co., Denver, Colo., and Lawrence, Kans., seeds, implements, etc.; Oscar H. Will & Co., Bismarck, N. D., seeds; C. C. Morse & Co., San Francisco, Calif., plants, seeds and trees; Johnson & Musser Seed Co., Los Angeles, Calif., seeds; Otto Schwill & Co., Memphis, Tenn., seeds, trees and plants; Johnson Seed Co., Philadelphia, Pa., seeds, supplies, etc.; Tinsley Seed Co., St. Louis, Mo., seeds; Wood, Stubbs & Co., Louisville, Ky., seeds; Skidelsky & Irwin, Philadelphia, Pa., seeds, bulbs, plants, etc.; Wm. Elliott & Sons, New York, seeds; John Lewis Childs, Floral Park, N. Y., rare flowers, vegetables and fruits; Amzi Godden Seed Co., Birmingham, Ala., seeds; The Mangelsdorf Bros. Co., Atchison, Kans., seeds; Ratekin's Seed House, Shenandoah, Ia., field and garden seeds; W. E. Marshall & Co., New York, seeds; Peter Henderson & Co., New York, seeds, supplies, implements, etc.; The Imperial Seed and Plant Co., Baltimore, Md., bulbs, plants, etc.; A. N. Pierson, Inc., Cromwell, Conn., roses, carnations, bedding plants, etc.; R. Vincent Jr. & Sons Co., White Marsh, Md., geraniums; California Rose Co., Pomona, Calif., roses; California Nursery Co., Niles, Calif., trees, palms, shrubs, etc.; Fancher Creek Nurseries, Fresno, Calif., nursery stock; J. M. Thorburn & Co., New York, seeds and bulbs; Henry F. Michell Co., Philadelphia, Pa., seeds, bulbs and implements; R. & J. Farquhar & Co., Boston, Mass., seeds, bulbs and implements; Jos. Breck & Sons, seeds and implements; Henry A. Dreer, Philadelphia, Pa., seeds and plants; Rickards Bros., New York, seeds; Henry Field Seed Co., Shenandoah, Ia., seeds; Burnett Bros., New York, seeds, bulbs and plants; Henry Saxton Adams, Wellesley, Mass., seeds and bulbs; D. V. Burrell, Rocky Ford, Colo., seeds; Cole's Seed Store, Pella, Ia., seeds; Old Colony Nursery, Plymouth, Mass., nursery stock; German Nurseries, Beatrice, Neb., seeds, plants and trees; Fancher Creek Nurseries, Fresno, Calif., fruit and ornamental trees, plants, etc.; J. D. Thompson Carnation Co., Joliet, Ill., carnations and chrysanthemums; Wood River Nursery Co., Wood River, Neb., nursery stock; Chas. H. Totty, Madison, N. J., chrysanthemum novelties; O. A. D. Baldwin, Bridgman, Mich., small fruits, seed potatoes, etc.; Elmer D. Smith & Co., Adrian, Mich., chrysanthemums and asters; Gillett & Ohmer, Cincinnati, O., florists' supplies.

Leonard Seed Co., Chicago, seeds, bulbs and plants; Germain Seed & Plant Co., Los Angeles, Calif., seeds, plants, garden requisites, etc.; J. Roscoe Fuller & Co., Floral Park, N. Y., seeds and plants; The Livingston Seed Co., Columbus, O., seeds, bulbs, etc.; W. Atlee Burpee & Co., Philadelphia, Pa., wholesale seed catalogue; The Dingee & Conard Co., West Grove, Pa., plants, bulbs, roses, etc.; The Conard & Jones Co., West Grove, Pa., roses, plants, bulbs, shrubs, etc.; Miss C. H. Lippincott, Minneapolis, Minn., flower seeds; Glick's Seed Farms, Lancaster, Pa., seeds and plants; W. W. Wilmore, Denver, Colo., dahlias, hardy plants, etc.; Peacock Dahlia Farms, Williamstown Junction, N. J., dahlias; Vick & Hill Co., Rochester, N. Y., aster seed; J. L. Dillon, Bloomsburg, Pa., roses and carnations; James D. Cockcroft, Northport, L. I., N. Y., carnations; The Skinner Irrigation Co., Troy, O., irrigation system.

Samples of Seeds for Dept. of Agriculture.

At the request of the secretary of agriculture it is directed that, until July 1, 1909, 2-ounce samples of all importations of 100 pounds or more of grass, clover, and forage-plant seeds be prepared at the earliest practicable date after entry and forwarded to the seed laboratory, Department of Agriculture, Washington, D. C., labeled with names and addresses of consignors and consignees, name of seed as given in the invoice, and quantity of the consignment.—Treasury Decisions.

WHY DELAY ORDERING YOUR

FLOWER SEED

The best that money can buy is not too good for you
We have the best we could possibly procure.
Just try us on the following for immediate sowing:

	1 oz.	tr. pkt.
Salvia Bonfire (Clara Bedman)	$2.25	$ .25
" Splendens (Scarlet Sage)	1.00	.15
" Zurich (new)..1-16 oz., $1.25		.50
Verbenas, S. & I.. finest mixed	2.00	.25
Lobelia Crystal Pal.. compacta, true		.25
" Speciosa, trailing		.10
Begonia Vernon....... 1-16 oz., 50c		.25
" Erfordii		.25
" Semperflorens Magnifica (very fine for pots) 1-32 oz., $1 50		.50

	Tr. pkt.
Stocks, Princess Alice (Cut and come again) ....⅛ oz.. 50c	.25
Primula Obconica Gigantea. 4 colors, separate or mixed	.50
Asparagus Plum. Nanus, fresh greenhouse-grown	$4.00 per 100
Asparagus Sprengeri, fresh greenhouse-grown	.75 per 100

Ask us to mail you our latest Catalog of Seeds, Bulbs and Plants.

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SEATTLE, WASH.
Growers of
Puget Sound Cabbage Seed.
For Wholesale Trade Only.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors ....⅛-oz. 60c; oz. $4.00
Pure white ....⅛-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Vaughan's Seeds

ALYSSUM
Vaughan's Little Gem. extra fine strain........lb.. $3.50; Trade pkt., 10c; oz., 35c

ASPARAGUS PLUMOSUS NANUS
We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds

BEGONIAS Trade pkt.
Berna. Flowers are of very bright, carmine red; they are produced all summer and in great abundance ....$ .15
Salmon Queen, new .... .25
Semperflorens Red Lubecca. Fine for bedding .... .25

LOBELIA
Bedding Queen. This is undoubtedly the best of the dwarf Lobelias The best Lobelia for carpet beds, borders and pots ....Trade pkt., 15c; ⅛ oz., 25c; oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage, true	$ .10	$ .55
Hambrugin, new, for hanging baskets	.25	
MAURANDYA, mixed ..¼ oz.. 25c	.10	1.00

"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS
This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts .... Trade pkt. (1000 seeds), 50c; 3 pkts. for $1.25

	Trade pkt.	Oz.
Howard's Star	$ .10	$ .80
Snowball ....⅛ oz.. 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich ....¼-oz., $1.25	.25	
SMILAX, new crop ....lb.. $3 00	.10	.25
STOCKS, "Prince Bismarck," new giant double white	.25	
THUNBERGIA, mixed	.10	.40

VERBENAS

	Trade pkt.	Oz.
Defiance, brilliant scarlet true	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice	.15	1.00
Rose and Carmine shades	.25	2.00
Purple	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa	.05	.20
Lemon (Citriodora)	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c; ¼ oz., 50c; oz., $2.00; 2 ozs., $3.50.

VAUGHAN'S SEED STORE,
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Greenhouses, Trial Grounds and Nurseries
Western Springs, Ill.

The Everett B Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

IN an address before a meeting of nearly 400 Ohio cultivators, J. K. Davis, Sheridan, Ind., laid special stress on the advantages of discing the land before plowing. He contends that it saves horse labor and is of great assistance in breaking up the subsoil; also that it leaves no air spaces in the bottom of the furrow to prevent moisture rising. Incidentally he said he had used this method for 16 years and had recommended it to many and that all who had tried it had been pleased with the result.

FT. WAYNE, IND.—Edward M. Shell was arrested January 14 on a charge of using the mails to defraud, following an investigation of several months, conducted by Inspector A. R. Burr, of this city, and is now out under $500 bond pending a preliminary hearing before Commissioner Logan. It is alleged that Shell wrote to various fruit and produce merchants in Ohio, Michigan, Wisconsin, Pennsylvania and West Virginia, and induced them to ship him goods. Upon the arrival of the goods, it is said, he sold them at cut prices and failed to remit anything to the merchants. The specific charge on which he was arrested was the securing of a shipment valued at $585.67 from Henry Meyers, of Darlington, Wis., in July of last year.

Pure Cultures in Mushroom Growing.

The use of pure or tissue cultures for mushrooms has developed as a result of investigations of the Department of Agriculture, says "Experiment Station Work" for November, 1908. There are now several commercial kinds of these cultures. The use of pure cultures in this case, as in case of butter making, cheese making, and other processes, results in greater uniformity and certainty of the product.

F. A. Waugh, of the Massachusetts station, compared pure-culture spawn with English and French spawn in mushroom culture during two years under ordinary conditions and found that pure-culture spawn is, as a rule, very much better than either English or French spawn, but that there are important points of difference between the commercial pure-culture varieties. These differences consist in color, flavor, form, and, above all else, in productivity. In all of the experiments pure cultures gave larger yields than either the English or French spawn.

"It seems to be one of the chief advantages of the new method of growing mushroom spawn from pure culture that it nearly always gives fresher and more vigorous spawn. The product is nearly always more uniform and of higher quality; but, while this advantage is important, it is not so great as the one already mentioned." As a general result of his experience in mushroom culture, Professor Waugh expresses the opinion "that mushrooms can often be grown profitably as a catch crop in cellars or under greenhouse benches where conditions are favorable. The most important favorable condition to be considered is a cheap and reliable supply of fresh horse manure. It is quite plain, however, from our experience, that the stories of sudden wealth accumulating from mushroom growing are mostly fictitious."

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Mushroom Growing.

ED. AMERICAN FLORIST:—

I have a chance to lease several thousand feet of well aired, cemented and piped cellar room and intend to grow mushrooms. Please tell me about the best way to grow them, the different varieties and the methods of preserving them by drying, evaporating and canning, also the best methods of marketing. A. W.

We advise "A. W." to carefully study the articles on mushroom growing just closed in the AMERICAN FLORIST. These treat the subject more fully than we can attempt to repeat. If the cellar room has ample head room it will pay to arrange the beds in tiers, or shelves, one over the other, thus gaining considerably in area, but one must always bear in mind that a good deal of heavy material must be handled in and out.

As regards varieties, growers have paid little attention to this phase, using the English brick spawn preferably; recently American pure culture spawn has gained a reputation, and we would advise "A. W." to use some of each until results prove which is best for his case.

We were always glad to get the mushrooms and sell them fresh, hence never attempted evaporating and canning. Mushrooms are so easily shipped, and the demand has been so good that it pays best to sell them fresh, at least at first. Aim to make a success of growing before attempting canning. The nicest way is to pack in 1-pound pasteboard boxes, bright and clean, with the grower's name and address printed on same.

MARKETMAN.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points January 23 were as follows: New York, cucumbers, $1.50 to $2 per dozen; mushrooms, 25 cents to 60 cents dozen bunches; radishes, $1.50 to $3 per 100 bunches; rhubarb, $1 to $1.25 per dozen; tomatoes, 15 cents to 25 cents per pound; asparagus, $4 to $7 per dozen bunches; lettuce, $1.35 to $2.25 per barrel; grapes, 45 cents to 60 cents per pound; Egyptian muskmelons, 75 cents each. Cincinnati, cucumbers, $1.50 to $1.75 per dozen; mushrooms, 35 cents to 40 cents per pound. Boston, cucumbers, $10 per box. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $5 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 30 to 40 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.25 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents.

Proceedings

Of the Congress of Horticulture held at the Jamestown Exposition, September 23, 1907.

Linen Bound. 108 pages. Price 25c.

This publication includes the formal adddresses and discussions of the papers read at the meeting which covered the various phases of Horticulture This meeting was pronounced by Horticultural authorities as one of the greatest Horticultural meetings ever held in a single day. For copies address

H. C. IRISH, Secretary

National Council of Horticulture, Missouri Botanical Garden. **St. Louis, Mo.**

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

FRESH MILL-TRACK SPAWN

$6.00 per 100 lbs.

Fresh Tobacco Stems, $1.50 per 300-lb. bale.

		Trade pkt.
Stocks	Cut and Come Again, assorted colors	$ .25
"	Dwarf Bouquet, assorted colors	.25
"	Snowflake, white	.50
Petunia,	fringed, single, mixed	.50
"	fringed, double, mixed	1.00

W. C. BECKERT,

103 Federal St., N. S., PITTSBURG, PA.

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

For Best Results Advertisers should mail new advertisements and changes so as to reach us on Mondays.

Araucaria Excelsa

5½ to 6 in. pots. 3. 4 and 5 years old. 4. 5. 6 and 7 tiers from 18 to 25 to 30 in. in height 60c. 75c $1.00 to $1.25.

Araucaria Robusta Compacta and **Excelsa Glauca**, specimen plants, small stock the same in width as in height 6-in. pots. 4 to 5 years old. 3. 4 5 and 6 tiers 20 to 25 to 30 in. high. $1.50. $1 75 to $2 00 each.

Cineraria Hybrida, best strain. 2½ to 3 in. pots. $4 00 to $5 00 per 100

Areca Lutescens, 4-in pots. three plants in a pot 25c

Ficus Elastica (Rubber) 5½ to 6 in. pots. 25c 30c and 40c.

Boston Ferns, 6-in pots. 50c; 7-in. pots. 75c $1.00 to $1 25.

Scottii Ferns, 5½-in. pots. 40c; 6-in. pots. 50c; 7-in. pots 75c to $1.00.

Whitmani Ferns, 7-in., as big as a bushel basket. 75c $1 00 to $1.25; 9-in pans, as big as washtub $1.25 to $1.50.

Neph. Amerpohlii, 5¼ to 5½in. pots. 30c. 40c and 50c.

Kentia Belmoreana, 5 good leaves. 5¼ to 5½ in. pots 25 to 30 in high 50c to 60c; 4-in. 35c.

Kentia Forsteriana, 6 to 7-in pots, 25. 30 40 to 45 in. high. 75c. $1.00 $1.25 $1.50 to $2 00 each

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c to 60c.

Primula Chinensis, in bloom 5¼ to 5½ in. pots $2.00 per doz. **Primula Obconica**, 4-in. 10c.

Begonia Gloire de Lorraine, specimen plants. large 6 in. pots 75c to $1.00.

Azaleas, Apollo (red) in bloom. 75c to $1.00; Simon Mardner and four other varieties. 60c, 75c to $1 00.

Please state if in or out of pots.

All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN

Importer. Wholesale Grower and Shipper of Pot Plants.

1012 W. Ontario St., **PHILADELPHIA, PA.**

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri. 2-in., $2.50 per 100; 3-in. $5.00 per 100. Seedlings. $1.00 per 100.

Geraniums, Nutt, Doyle. Perkins Ricard. Grant La Favorite. R. C., $1.25; 2-in. pots. $2.00; 3-in., $4.00 per 100; Trego Viaud. Castellane. Poitevine, Jaulin. R C. $1 50; 2-in. pots. $2.50; 3-in., $5.00 per 100. Mme. Salleroi. 2-in. $3.00 per 100

Asparagus Plumosus, 2-in., $3.00 per 100; 3-in. $5.00 per 100.

Boston Ferns, 5-in., 30c each.

Vinca Var., 2-inch. $2.00 per 100.

Dracena Indivisa, 3-in., $5.00 per 100.; 4-inch $10.00 per 100.

Rex Begonia, $5.00 per 100.

Cash with order. No C. O. D. All shipments at risk of purchasers. after being delivered to the express companies properly packed in good order.

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Ferns for Dishes.

Assorted Varieties.

From 2-in pots. $3.50 per 100; $30.00 per 1000.

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HIGH CLASS PALMS

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Vick's Late Branching (8 colors)
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Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

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New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz 40c; 1-32 oz 60c.; 1-16 oz. $1 00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8 00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3 00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

CANNAS

Guaranteed True to Name. With from two to three eyes each.

Bronze Leaved Cannas

	doz	100	1000
Black Beauty	$0 75	$ 5 60	$ 45 00
David Harum	50	3 00	27 50
Discolor	30	1 75	15 00
Egandale	50	3 00	27 50
Graf Walderseel	1 25	8 00	75 00
Iroquois Chief	1 50	10 00	100 00
King Humbert	1 25	8 00	75 00
Leonard Vaughan	50	3 00	27 50
Shenandoah	40	2 50	22 50

Variegated Flowers

	doz.	100	1000
Elizabeth Hoss	$0 60	$ 4 00	$ 35 00
Florence Vaughan	50	3 00	27 50
Queen Charlotte	40	2 50	22 50
Souv. de A. Crozy	60	4 00	35 00

Cream and Yellow Shades

	doz.	100	1000
Buttercup	$0 90	$ 6 00	$ 55 00
Coronet.	60	4 00	37 50
Alsace	50	3 00	27 50

Orange Flowers

	doz.	100	1000
Sec. Chebanne	$0 50	$ 3 00	$ 27 50

Red Flowering Cannas, Green Foliage.

	doz.	100	1000
A Bouvier	$0 50	$ 3 00	$ 27 50
Beaute Poitevine	50	3 00	27 50
Chas. Henderson	40	2 50	22 50
Chicago	40	2 50	22 50
Duke of Marlborough	40	2 50	22 50
Explorateur Campbell	50	3 00	27 50
Papa Nardy	50	3 00	27 50
Express	75	5 00	45 00

Orchid Flowers

	doz.	100	1000
Allemania	$0 35	$ 2 25	$ 20 00
Austria	50	3 00	27 50
Burbank.	30	2 00	17 50
Frederick Benary	90	6 00	55 00
Italia	50	3 00	27 50
Kate Gray	40	2 50	22 50
Partenope	40	2 50	22 50
Pennsylvania.	40	2 50	22 50

Pink Flowers.

	doz.	100	1000
L. Patry	$0 35	$ 2 25	$ 20 00
Mlle. Berat	40	2 50	22 50

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MOSBAEK GREENHOUSE CO., Onarga, Ill.

GERANIUMS...

60,000 S. A. NUTT

Grown in 2-inch pots; all graded to an even size. No yellow or dead leaves. Just right for 4-inch pots. Nothing but good plants put up in order. They are sure to please you, **$2.00** per 100; **$20 00** per 1000. Money order or draft must accompany all orders.

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Wholesale and Retail Grower of Bedding Plants,

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The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

INDIANAPOLIS, IND.—The department of public parks will establish a nursery early in spring and is in the market for young nursery stock. Address H. Houston Fall, City Florist, Garfield Park, Indianapolis, Ind.

THE forest fire losses in New York state alone during the past year are estimated at nearly $800,000. Of the 700 fires reported 90 are attributed to hunters and nearly 400 to railroad locomotives. A total area of 177,476 acres was burned over of which 50,000 acres were state lands.

LANDSCAPE GARDENER BUTTERWORTH, of Kansas City, Mo., has made a proposition to the Houston (Tex.) Country club to undertake the beautification of its grounds. He visited the place of the Country club, south of the city, and was greatly impressed with the possibilities of the place.

WHEN we are told upon good authority that the San Jose scale will kill a fruit tree in three years and that it is carried by the wind, also by birds and insects, the serious nature of the pest and the necessity for care and watchfulness on the part of nurserymen and cultivators generally will be apparent.

ONTARIO, CALIF.—This city is fast becoming one of the greatest rose centers in southern California. During the past few weeks local nurseries have shipped over 100,000 rose plants to all parts of the United States and Canada, some even going to Alaska. Before the season is over the shipments are expected to exceed 250,000.

BEATRICE, NEB.—A. E. Hetherington has purchased the Gage nursery farm and will occupy it March 1. This farm consists of 20 acres of good, productive land and it is the intention of Mr. Hetherington to convert it into a truck farm which he will operate on a large scale. He will use an automatic planting machine requiring three men to operate and with a daily capacity of 20,000 plants.

Brown-Tail Moth.

The report of the introduction of the brown-tail moth in some recent importations of French nursery stock will arouse widespread alarm among those who are acquainted with the ravages of this most offensive pest, and it may result in the demand for a strict quarantine against places where the insect is domesticated. The experience of the state of Massachusetts in dealing with the brown-tail and the gipsy moths, and the very unsatisfactory results which have accompanied the warfare against them should be sufficient warning to the other parts of the country. No effort should be spared to prevent the further dissemination of these pests, for once acquired they are evidently almost impossible to destroy. The only safe way is to cease purchasing material from the infected districts which may, by any possibility, carry the eggs or pupæ.

The advisability of fumigation of infected stock has been discussed, but I believe it would be safer to destroy the stock by burning. I doubt if fumigation by hydrocyanic gas as practiced in some instances for San Jose scale will be sufficient to insure safety from the above mentioned moths, and to use a longer exposure and a stronger dose of gas would, I feel sure, greatly injure the plants. Of course, fumigation can only be used in the case of dormant stock in any event. It is well to remember the homely old saying: "An ounce of prevention is worth a pound of cure." All packing material contained in shipments should be burned at once as this may be the most dangerous source of infection.

JOHN F. COWELL.

The Douglas Fir.
Pseudotsuga Taxifolia.

The Douglas Fir.

By some this is also called Douglas spruce. This important timber tree grows along the Pacific coast from Mexico through the Rocky Mountain region to southern Canada, being found at its greatest perfection in the territory around Puget Sound, where trees 300 feet in height are not uncommon. As an ornamental it is a dark-colored, very rich looking tree of graceful habit, and it is being used extensively in forestry on account of its rapid rate of growth and hardiness. Owing to its extremely large size it should be planted where it may ultimately have unrestricted space in which to grow.

Ohio. W. E. BONTRAGER.

Outdoor Roses.

ED. AMERICAN FLORIST:—

Please advise me whether Joe Hill, Killarney and Mme. Chatenay make good summer roses outdoors.

Tennessee. G. W. C.

Killarney and Mme. Chatenay succeed quite well as bedding roses in most parts of the middle north. Joe Hill does well in the south, but is too tender for open culture in the north. Wm. R. Smith, Maman Cochet and White Cochet, Gen. McArthur, Wellesley, Rhea Reid and Triehr Von Marshall thrive and bloom abundantly in the middle west.

E. G. H.

Shade Trees.

The haphazard method of planting trees, that is often practised on estates newly laid out, and in the streets of rising localities, does not augur well for the effect these trees will have in the future. They are carelessly lifted in the first place, no effort being made to preserve the small feeding roots, while the heads are left entire. Small wonder that such trees fail, even if well looked after when planted, but this they are not. They are too often left to the mercy of the wind without as much as a stake to prevent them shaking about, in a small hole which freezes all through when the weather is severe and serves as a basin to catch and hold water in rainy weather. These methods contrast badly with the proper methods frequently described in these columns, the roots being carefully lifted and trimmed and the heads being cut back a little to ease the roots after planting. In planting these are spread out and covered with light soil while the trees are so carefully supported that high winds fail to move them. In consequence they rapidly take hold and are soon re-established.

Yet nothing is so restful to the eyes and nerves of the city or town dweller as trees and it is a pity that such practises exist as they are bound to have a bad effect. Trees for street and boulevard planting must not be of the cheap and nasty order offered by foreign nurserymen. They have often a hard struggle even with the best of care, when their roots extend under sidewalks or macadam roads and nothing but the best and most healthy specimens that have been properly looked after from the seedling stage upwards should be used for the purpose. They must have been transplanted, not once but several times, in the youngest stages, every third year or so, in fact; then we have a tree with a good, well balanced head, a straight trunk, yet not drawn up, as it would be had they been grown close together right along, and a fine mass of hungry feeding roots that are ready and able to push through any kind of soil and send up sustenance to the forming leaves and branches.

In cutting back the heads, this must not be done in a careless manner, but due attention given to the form and the natural habit of the tree. It is always good policy to thin out the center rather than clip the points of the branches as a thinly disposed head, sufficiently above the roadway to allow of walking and driving beneath, is to be aimed at. Especially is this the case with sycamores, oriental planes and others with heavy foliage and close heads. Even elms and box elders are not improved by having the ends of the branches taken as they shoot out a thicket of new growth which keeps the light out of the center and leads to a misshapen head. With regard to the size of the trees a much earlier display can, of course, be made by planting large, mature specimens than by planting smaller ones and growing them on in situ. But large trees are much more expensive at the nursery, need more care

and trouble in planting, and after treatment. Still large trees of elm, Carolina poplar, maple and others are frequently transplanted and do well, making a show in about four or five years that could not be obtained from younger ones in triple the time.

So much depends upon soil and situation that one cannot well recommend any special kinds as suitable for all occasions. The American elm is a grand shade and street tree thriving well on light soils but losing its foliage rather early in the season. The maidenhair tree is a splendid town tree of fine proportions and very distinct habit. Oaks generally are not satisfactory, especially in smoky towns. The Carolina poplar is a fine grower, an ornamental, quick growing tree and makes a fine specimen but it is about the dirtiest tree in existence—unless it is the horse chestnut—always dropping leaves, twigs or branches. The oriental plane and the American sycamore both do well in towns while many of the maples and the box elder do well though the somewhat spreading habit of the latter makes it more suitable as a windbreak to choicer things or for planting in breadths for shade and shelter. The maples are so beautiful in fall and early spring they should be planted freely, and there are many others to select from. But when planting, plant good trees and plant with care. Better plant half the quantity and look after them than a large number and neglect them.

French Vineyard Fertilizers.

CHEMICAL MANURES BEST.

Consul D. I. Murphy reports that a French journal publishes the conclusions reached by Professor Zacharewicz, of the French Department of Agriculture, regarding the best and most profitable fertilizers for vineyards. Briefly put, they are as follows:

(1) That chemical fertilizers, judiciously selected, exercise the greatest influence on the growth of the vine and the character of the grape; (2) that the mixture of nitrate of soda with sulphate of potassium and superphosphate of lime has, for the last nine years successively, yielded the most profitable returns; (3) that the action of nitrate of soda on the vine is not affected by dry weather; (4) that chemical fertilizers improve the quality of the grapes—whether destined for table use or for the making of wine.

It will interest our American grape and wine growers to know that in this region exceedingly bad results have followed the employment of certain fertilizers. Not far from Bordeaux a large grower spread over his vineyard a few years ago quantities of alluvial soil mixed with stable manure. As a result, his crop of grapes was larger than usual, but his wine was of very inferior quality. The character of the soil appeared to have been so changed or modified that the usual delicately flavored wine was no longer produced.

In the Medoc country—famed for its red wines—the growers exercise the most scrupulous care in the selection and application of fertilizers. They understand that, while the vine is hardy, it is exceedingly sensitive and that the quality of its fruit may be injured by a very slight change in the soil.

A vineyard not far from Bordeaux invariably produced excellent wine until one season the proprietor used pieces of creosoted wood for arbor stakes. The grape crop was as large as usual, but the wine was so strongly impregnated with cresote as to be undrinkable. So well understood is this fact of the sensitiveness of the grape vine, that the courts in a suit against a railroad company awarded damages to the owner of a vineyard at Saint Emilion, who claimed that his entire crop was ruined by the proximity of a pile of creosoted ties. It appeared that the ties were so placed that the prevailing breezes during the growing season reached the vineyard laden with the odor of creosote. This so affected the growing plants that when the wine was made, its flavor and bouquet were found to be utterly destroyed.

Old Cedars to Be Moved.

With the planning of a new apartment house in Washington Heights, the historic grove of Lebanon cedars, given to M. Jumel in 1815 by Napoleon, who had received the plantings from the khedive of Egypt, and which have stood since on the old Jumel estate, will be taken up. Through the protests of the custodians of the Jumel mansion the park department has been persuaded to take up some of the trees and replant them in Kingsbridge park, New York, and one will be transplanted in the garden at the Jumel mansion.

Botanists from all over the world and foreigners traveling in America have visited the Jumel grove. There were 18 of the trees, which stood in a rough circle. When they were brought to this country M. Jumel planted them around a fish pond in front of his mansion, in One Hundred and Sixty-first street, which was then a considerable distance from New York proper.

Cotoneaster Rotundifolia.

This Himalayan species is a particularly ornamental one throughout the greater part of the winter, says The Garden, for it fruits well and the berries usually last until the spring months. Curiously, birds do not interfere with the berries of this species while other food is obtainable, but the fruit of some species of cotoneaster is cleared off as soon as it is ripe. C. rotundifolia grows three to four feet high and forms a spreading bush, many feet across. The main branches are well furnished with secondary branchlets, though it is not such a dense-growing plant as some of the others.

PROVIDENCE, R. I.—The Florists' and Gardeners' Club of Rhode Island celebrated its thirteenth anniversary with a supper. The following were among those present: Cornelius Hartstra, Wm. Hill, James Hockey, Chas. McNair, Wm. Appleton, Owen Michael Sweeney, Alexander Macrae, E. A. Appleton, Frank Schellinger

BOBBINK & ATKINS,
Rutherford, N. J.
Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

C. KERKVOORDE NURSERIES
WETTEREN, n. GHENT, BELGIUM.
100,000 **Roses,** low budded on Rosa canina, all best sorts, our selection, $4.00 per 100; purchaser's selection, $5.00 per 100. 25,000 **Planes,** straight, transplanted, 10-12 feet, $10.00 per 100; 12-14 feet, $12.00 per 100. **Azalea, Rhododendron, Conifers, Peonies.** Cash with order. Catalog free.

Kallen & Lunnemann
BOSKOOP, HOLLAND.
Largest Growers and Exporters of High Grade Rhododendrons, Boxwood, Conifers, Koster Blue Spruce, etc., etc.
Watch for Our Interesting Price Lists.

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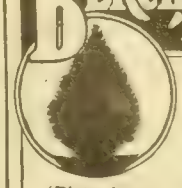
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BERCKMANS' Dwarf Golden
ARBOR VITÆ
(Biota Aurea Nana.)
NOW READY.
Largest Stock in Existence.
Althea Meehanii,
Exochorda, Weeping Mulberry, Magnolia Grandiflora, Azalea Indica, Camellias, Field-grown Roses, Rubbers, Pandanus and Arecas.
Send for Trade List.
P. J. BERCKMANS CO.
(FRUITLAND NURSERIES)
Augusta, Ga.

American Everblooming Hydrangea.
Strong field-grown plants, 15-in. and up, $2.00 per doz., $15.00 per 100; field-grown plants, 8 to 12 in., $10.00 per 100, $90.00 per 1000; field-grown plants, 4 to 8 in., $6.00 per 100, $50.00 per 1000. Lists free.
THE E. Y. TEAS CO., Centerville, Ind.

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OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
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ARBOR VITÆ
(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
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Jacs Smits, Ltd., NAARDEN (Holland.)
Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,
Price List Free on Demand.

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Rooted Cuttings Now Ready

WM. H. TAFT (New Red)	$12 00 per 100; $90 00 per 1000
Victory	2 50 per 100; 20 00 per 1000
Enchantress	1 75 per 100; 15 00 per 1000
Pink Lawson	1 50 per 100; 12 50 per 1000
White Lawson	2 00 per 100; 18 00 per 1000
Variegated Lawson	2 75 per 100; 25 00 per 1000

Unrooted Stock

Mrs. A. N. Nelson	$ 60 per 100; $5 00 per 1000
Crusader	60 per 100; 5 00 per 1000
Boston Market	60 per 100; 5 00 per 1000

Lawson. Pink, White and Variegated, half rate.

NOTHING BUT THE BEST AT LOWEST PRICE.

First come, first served. Credit only to reliable people.

SCHEIDEN & SCHOOS, 60 Wabash Ave., **Chicago**

Pelargonium Rooted Cuttings

15 varieties, $2.50 per 100.
BEGONIAS, flowering kinds. $1.75 per 100.
VERBENAS, 70c per 100; $6 00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100; $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000.

All Rooted Cuttings. Express prepaid.

Cash with order. Write

S. D. BRANT, Clay Center, Kan.

GERANIUMS

S. A. Nutt and 10 other vars., 2¼-in...per 100, $2.50

Pansy Plants

Giant flowering.....$2.50 per 1000; per 100 .50
Asparagus Plumosus 2¼-in. pots....per 100 2.00

Cash. **JOS. H CUNNINGHAM, Delaware, O.**

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants out of 2½-in.
Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000

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Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

Good Stock Cheap --- I Need Room.

2½-in. **Geraniums,** dbl. mixed reds, pinks and whites, $1.75 per 100; 2½-in. Giant dbl. **Alyssum,** $1 25 per 100. **ROOTED CUTTINGS**—**Ageratum,** Stella Gurney, **Dew Plants, Tradescantia, German Ivy,** 50c per 100; Mixed flowering **Begonias,** $1.00 per 100; 5 and 6-in **Boston** and **Whitmani Ferns,** prices on application.

Keeney's Greenhouses, Monongahela, Pa.

English Ivy

Rooted Cuttings **$2.00** per hundred.

JOHN NYFLOT.
7311 Florissant Ave., ST. LOUIS, MO.

BROOKLYN, N. Y.—Alfred S. Jones, who was noted as a landscape gardener, died January 21 at his home, 547 Seventy-second street, in his eighty-fifth year. He was in charge of H. B. Hyde's country place at Bay Shore, L. I., for more than 15 years. He leaves six daughters.

Rooted Carnation Cutttings

PINK	100	1000
Afterglow	$6 00	$50 00
Winona	6 00	50 00
Winsor	3 50	30 00
Rose Pink Enchantress	3 00	25 00
Enchantress	2 50	20 00
Lawson	2 50	20 00
Aristocrat	3 50	30 00
RED	100	1000
Beacon	$3 50	$30 00
Victory	3 00	25 00
Robt. Craig	2 50	20 00

WHITE	100	1000
Sarah Hill	$6 00	$50 00
White Enchantress	3 00	25 00
White Perfection	3 00	25 00
Lady Bountiful	2 50	20 00
Queen	2 50	18 00
Lt. Peary	2 50	18 00
Lawson	2 50	20 00
MISCELLANEOUS	100	1000
Harry Fenn	$2 50	$20 00
Harlowarden	2 50	20 00
Patten	2 50	20 00

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FOR EVERY PURPOSE.

We have them all, both big and little, tall and short. Before deciding what to grow for your next Fall's show let us suggest a few that will bring the Oh's and Ah's from the ladies. We also have all the best commercial sorts.

ELMER D. SMITH & CO., Adrian, Mich.

ARAUCARIAS

A. EXCELSA.

Nice Plants from 5-in. pots
4 to 5 tiers ..... 50c each.
Per doz.....$5.00

THE CONARD & JONES CO.,
WEST GROVE, PA.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each. $7 50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

7 in. pots, 34 to 36-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

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In ERICAS, Etc.

For Immediate Delivery—To make room,

FOR EASTER FLOWERING

	Per 100
Boronia, Elatior, pink, in 4-in. pots	$15.00
Erica Persoluta rubra, in 3½-in. pots	10 00
Epacris Alba, white, in 3½-in. pots	10.00
Genista Racemosa, 4-in. pots	10 00
" " 4½-in.	15 00

Christmas varieties for growing on.

Erica Melanthera, in 3½ in. pots	10 00
Regerminans, 3-in. pots	8.00

The above prices are net cash with order. No charges for packing.

ANTON SCHULTHEIS,
Florist, COLLEGE POINT, L. I.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Dbl. Petunia, 10 kinds, 2-in., 2c.
Geraniums, single and dbl. Grant, Buchner, etc. 2-in. 2c.
Ageratum, 2-in. 2c. **Rose Geraniums,** 2-in. 2c.
ROOTED CUTTINGS, prepaid per 100: **Cuphea** 75c; **Paris Daisy,** white, yellow; **Swainsona** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c; $8 00 per 1000; **Alternanthera,** 3 kinds, 50c; **Ageratum,** 50c. **Coleus,** 60c per 100; **Artillery plant. Hardy pinks,** 75c. **Flowering Begonias,** $1.25. **Fuchsias,** 8 kinds, $1.00. **Salvia** Splendens, Bonfire, 75c. 2-in. 2c. **Parlor Ivy,** 75c. **Alyssum,** Doube 75c.; 2-in. 2c.

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Always mention The American Florist when you order stock. : : : :

The New Crested SCOTTII FERN.. NEPHROLEPIS SCHOLZELI

NEPHROLEPIS SCHOLZELI

This crested sport of Scottii will hold the same position to all the crested forms of Nephrolepis that Scottii now holds to the Boston. It is entirely distinct from all others and will become even more popular than its parent, with which it is identical in every way except that the pinnæ are subdivided, giving it a beautiful crested appearance.

We have shown the plant at the exhibitions noted below and have been awarded the following honors:

SHAW GOLD MEDAL, St. Louis Horticultural Society, Nov. 3rd, 1908, for "Best plant of decided merit for cultivation, not previously an article of North American commerce."

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CERTIFICATE OF MERIT, Dutchess County Horticultural Society, Poughkeepsie, N. Y., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Morris County Gardeners and Florists' Society, Madison, N. J., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Chestnut Hill Horticultural Society, Philadelphia, Pa., Nov. 4th, 1908.

We are booking orders now, which will be filled in strict rotation June 1st, 1909.

PRICE: Per doz., $3 50; per 100, $25.00; per 1000, $200.00. Twenty-five supplied at hundred rate and five hundred at thousand rate.

HENRY A. DREER, 714 CHESTNUT STREET PHILADELPHIA, PA.

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We are booking orders now for delivery early in the Spring of next year, on all commercial **Cattleyas** and **Novelties.**

Our prices are right and our guarantee perfect. We sell only first class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000; 2-in., $16.00 per 1000
No order taken for less than 1000.

Drake Point Greenhouses, Yalaha, Florida

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

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62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection	$ .75 per 100;	$ 6 00 per 1000
Plants, our selection	2.50 per 100.	20.00 per 1000
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Plants, purchaser's selection	3.00 per 100;	25.00 per 1000

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All the Best New and Standard Varieties. Send for circular.

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SURPLUS STOCK

	Per 100
300 Cyclamen, assorted, budded, 3-in pots	8 00
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200 Cinerarias, Dwarf, " " 3-in.	6 00
100 Whitmani Ferns, 2½-in. pots	5 00
100 " " 3-in. pots, extra fine	12 00
75 Boston Ferns, 3 in. pots	6 00
75 Piersoni Ferns, 3 in. pots	8 00

Prices on Perennials on application.

	Per 100
75 " " 2½-in. pots	$ 5 00
50 " Elegantissima Ferns, 2½-in. pots	5 00

ROSES

	Per 100
Clothilde Soupert, 2-year field grown	$18 00
Anna Mueller, " "	15 00
Crimson Rambler, " " $12 50.	$16.00, 18 00

PERENNIAL GARDENS CO., Toledo, Ohio.

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Freshly Imported Orchids

We beg to offer a fine lot of the superb **Cattleya Gigas Sanderiana** just arrived in finest condition, also C. Bogotensis, C. Gigas, (Hardyana type), Miltonia Vexillaria, etc. Write for prices.

Lager & Hurrell, Summit, N. J.

WOODHAVEN, N. Y.—Mrs. May Reimels, daughter-in-law of John Reimels, shot herself in the heart after taking carbolic acid. She had been married to Mr. Reimels' son, Walter, only seven months, was surrounded with every comfort and the only reason that can be assigned for her act is her inability to content herself with suburban life after living in the city.

We Crow Again

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At the A. C. S. at Indianapolis,

WINNING 15 PRIZES.

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A. T. Pyfer, Mgr., **JOLIET, ILL.**

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NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan, $12.00 per 100; $100.00 per 1000,

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations Roses and Chrysanthemums.

Chas. H. Totty,

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Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

ELI CROSS, 25 Monroe St., Grand Rapids, Mich.

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

JUST AS A REMINDER

To Our Patrons.

We have ROOTED CUTTINGS of the BEST CARNATIONS.

PATTEN & COMPANY, Tewksbury, Mass

LOWELL, MASS.—A bill will be introduced into the legislature by Senator Hibbard for a law permitting florists to deliver flowers for funerals, churches, etc., on Sunday morning up to 11 o'clock.

BEAVER DAM, WIS.—Fire was discovered January 16 in the greenhouses of Joseph Wagner in the rear of his store, and before it could be checked the whole of the west end of the houses, as well as almost the entire stock of plants, were ruined. Mr. Wagner was disinclined to estimate his loss, but it is thought to be in the neighborhood of $3,000. He has been established here about 35 years, but this is his first serious loss. He is quite uninsured.

THE NEW CARNATION

LUCILLE

White Overlaid with Pink

A STRICTLY FANCY CARNATION,

Possessing all the best qualities of our leading commercial varieties.

It commands the highest prices on the market, owing to its beautiful color, size, stem and magnificent form. It is profitable to grow, because its habit and prolificness are all that could be desired, and its keeping qualities are unequalled. $12.00 per 100; $100.00 per 1000.

WRITE FOR DESCRIPTIVE CIRCULAR

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Highland Park Greenhouses, **HIHGLAND PARK, ILL.**

Rooted Carnation Cuttings

For Early January Delivery and Later

A selection from 20 varieties.	Every one reliable.	Per 100	1000
White	WHITE PERFECTION	$3 00	$25 00
Red	BEACON	4 00	35 00
Light Pink	ENCHANTRESS, MELODY	3 00	25 00
Medium Pink	WINSOR	3 00	25 00
	WINONA	6 00	50 00
Dark Pink	ROSE ENCHANTRESS	3 00	25 00
	SPLENDOR, VIOLA SINCLAIR	6 00	50 00
Variegated	VARIEGATED LAWSON	3 00	25 00
Crimson	OCTOROON	3 00	25 00

Viola Sinclair sent out on trial in limited quantities by H. W. Field, Northampton, Mass., has proved to be an acquisition for the average grower. It is early, extremely free, resembles Mrs. T. W. Lawson in color, and a continous bloomer. Worthy of trial by all.

PETER FISHER, CARNATION SPECIALIST. **Ellis, Mass.**

New White Carnation **GEORGIA** **The Best White**

Best for Quality. **Come and See It.** **Best for Quantity.**

This variety is bound to supplant other whites as it not only produces as many or more flowers but every one of them comes with a perfect calyx borne on a long stiff stem, supporting the bloom in perfect shape. This fact makes it greatly superior to other varieties as a money maker. We have 20,000 cuttings in the sand for Jan. delivery. **Rooted Cuttings: $2.00 per doz.; $12.00 per 100; $100.00 per 1000 Satisfaction guaranteed.** See classified "ad" for price list of Standard Varieties.

J. D. COCKCROFT, **Northport, Long Island, N. Y.**

CARNATION CUTTINGS

We offer choice varieties for January and later shipments.

	Per 100	Per 1000
ENCHANTRESS	$2 50	$20 00
WHITE "	3 50	30 00
ROSE PINK "	2 50	20 00
WHITE PERFECTION	2 50	20 00
WINSOR	3 50	30 00
MELODY	2 50	20 00
BEACON	3 50	30 00
VICTORY	3 50	30 00
ARISTOCRAT	3 50	30 00
SPLENDOR	6 00	50 00
VESPER	3 50	30 00
WHITE LAWSON	2 50	20 00

East Sudbury Greenhouses,

CARNATION SPECIALISTS

P. O. Address, SOUTH SUDBURY, MASS.

Telephone So. Sudbury 20

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R Witterstaetter, Station F., **Cincinnati, O.**

Lloyd Carnations.

The Only Ever-blooming White in Existence. Easy rooted. Excellent keeper and shipper. Best seller of any white carnation on the market.

	Per 100	Per 1000
Rooted cuttings from sand	$3 00	$25 00
Rooted cuttings from soil	4 00	35 00

Cash with order.

JOHN BENNEIT, Atlantic Highlands, N. J.

CARNATIONS!

Apple Blossom. Wanoka.

Rooted cuttings on and after Dec. 1st, '08. We wouldn't **advertise at all** if we could get you to visit our place. Because **"Apple Blossom"** and **"Wanoka"** are their own best advertisements. They are positively **distinctive**-so distinctive as to be leaders in **quality, production** and **character. A very early order** will not disconcert us, and it may be of advantage to you.

WANOKA GREENHOUSES, Barneveld, N. Y

NEW WHITE CARNATION

MARCHIONESS

Fine form, prolific early and cotinuous.
$10.00 per 100; $80.00 per 1000.

BELLAMY BROS., Syracuse, N. Y.

Successors to L. E. Marquisee Estate.

ALVINA

The Best Dark Pink Commercial Carnation Ever Introduced.

Rooted cuttings, $10.00 per 100: 25 at 100 rate.
Your money back if it fails to make good any time before Dec. 15, 1909.

Henry Eichholz. Waynesboro Pa.

AMHERST, MASS.—O. Bennett Burrill of South Haven, Mich., a graduate student in landscape gardening and floriculture in the Agricultural College, has been appointed agricultural inspector for the Philippine islands. Mr. Burrill is a graduate of the Michigan Agricultural College. He came here from the Indiana normal school, where he was in charge of the gardens. He wil collect seeds, inspect domestic animals, study insect pests and report to the agricultural department of the islands. Mr. Burrill started January 22 for Seattle, and will sail February 2 on the Tsao Maru for Hongkong and from there will go to Manila.

Carnations ROOTED CUTTINGS

NEW INTRODUCTIONS

Mrs. Chas. Knopf, light pink (Knopf),
Ruby, crimson (Knopf),
Georgia, white (Cockcroft),
Mrs. J. C. Vaughan, white (Rudd),
Bay State, variegated (Roper),
Pink Delight (Dorner),
Wanoka, crimson (Wanoka Greenhouses).
Apple Blossom, white, light pink markings (Wanoka Greenhouses),

$12.00 per 100; $100.00 per 1000.

O. P. Bassett, scarlet (Bassett & Washburn), **$8.00 per 100; $60.00 per 1000.**

The two novelties, Mrs. Chas. Knopf and Ruby, give great promise as commercial varieties; both are free producers. We have them both growing side by side with the standard sorts, and they have demonstrated now that they are here to stay. Mrs. Chas. Knopf is at this time especially good, being larger and of better form and color than Enchantress. Ruby is a very large, perfectly formed flower with excellent stem, and it has a good crimson shade, not too dark.

STANDARD VARIETIES

One Hundred Thousand Cuttings, Selected, Strong Stock, Ready to Ship.

WHITE	Per 100	1000
Sarah Hill	$6.00	$50.00
Pres. Seelye	6.00	50.00
Lloyd	5.00	40.00
White Enchantress	3.50	30.00
White Perfection	2.50	20.00
PINK		
Splendor	6 00	50 00
Afterglow	6.00	50 00
Winona	6.00	50.00
Lawson Enchantress	5.50	50.00

PINK	Per 100	1000
Welcome	4.00	35 00
Winsor	3.50	30.00
Aristocrat	3.50	30.00
Rose Pink Enchantress	2.50	20.00
Enchantress	2.50	20.00
Lawson	2.50	20.00
RED		
Beacon	3.50	30.00
VARIEGATED		
Mrs. Patten	2.50	20.00

CHRYSANTHEMUMS.

Golden Glow. 2¼-in. pots, ready for shift.....$6.00 per 100
Rooted Cuttings, selection of 40 varieties, the cream of the commercial sorts.
Write for list and prices.

New Rose My Maryland

GRFTED, 2½-in. pots.....$20.00 per 100; $150.00 per 1000
OWN ROOTS, 2½-in. pots..... 10.00 per 100; 90 00 per 1000

Orders Booked Now for this Most Promising Variety.

S. J. REUTER & SON, Inc., Westerly, R. I.

CARNATION

MRS. J. C. VAUGHAN

(WHITE)

Early. Free. Continuous. It Keeps. It Ships.

High score for certificate at Washington after 54 hours in box.
Won Sweepstakes and best white seedling at Chicago, 1907.

$12.00 per 100; $100.00 per 1000.

JENSEN & DEKEMA, Morgan Park, Ill. **W. N. RUDD, 674 W. Foster Ave., Chicago.**

Carnations.

Blooms: Enchantress: Rose Pink Enchantress: White Enchantress: Beacon, red; Victory, red: Lady Bountiful. Ready at all times.

Rooted Cuttings: Ready Feb. delivery.

Enchantress	$15 00 per 1000	Beacon, red	$25 00 per 1000
Rose Pink Enchantress	25 00 per 1000	Victory, red	25 00 per 1000
White Enchantress	25 00 per 1000	Lady Bountiful	15 00 per 1000
Cardinal	15 00 per 1000	Queen	15 00 per 1000

WIRE WORK AND FLORISTS' SUPPLIES.

We are headquarters for the above in Cincinnati. L. D. Telephone M. 980.

WM. MURPHY, Wholesale Florist **311 Main St., CINCINNATI, O.**

New Carnation Edward.

This new seedling Carnation is a wonder for producing flowers, full of business from start to finish, continuous throughout the season, cannot be beat for productiveness, easily grown and propagated. **Description:** Deep pink in color, very large and well built up in center with good stem and calyx. Comes into bloom early and keeps at it with wonderful results. **$12.00 per 100; $100.00 per 100.** Will be heard from with others in the future.

W. H. SHUMWAY, Berlin, Conn.

This Drummer Never Shirks

It is an advertisement which works 365 days in the year, reaches your customers and gets you new customers everywhere if placed in

THE AMERICAN FLORIST.

White Killarney

Our rose is known only as **"Waban Conservatories Variety"** or **"WABAN VARIETY."**

Be sure of the right sport and good stock. Order from us at once.

Waban Rose Conservatories, Natick, Mass.

Ev'ry Bloomin' Thing

On our place is a rose plant on its own roots in a 2½-in. or 4-in pot. Order now for immediate or spring delivery.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each: $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

ROSES

We have a fine stock of large dormant field-grown plants on own roots, including Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, Fracois Levet, Jack, Prince Camille de Rohan, Magna Charta, Ulrich Brunner, Glant of Battles, and many others, at $16.00 per 100; $150 00 per 1000 Send for list. **Roses, Dahlias** and **Cannas** a specialty.

THE DINGEE & CONRAD CO., West Grove, Pa.

VAUGHAN'S LIST OF

Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots	$2 00	$12 00
2 yrs. old, 2 to 3 ft., well branched, budded	2 00	12 00
3 yrs. old, 3 to 4 ft., well branched, own roots	3 00	15 00
3 yrs. old 3 to 5 ft., well branched, budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs, old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4 inch, pot-grown, strong	3 00	20 00

Lady Gay.

2-yr.-old, dormant stock	3 00	20 00
5-inch pots, strong	5 00	40 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$2 50	$16 00	$150 00
2nd size, selected, grafted	2 00	12 00	100 00
3rd size, selected, grafted	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3 inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
5-inch	35	3 50	25 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties, each, 50c; per doz., $5 00; per 100, $35 00

TREE ROSE Crimson Rambler, each, 50c; per doz., 5 00; per 100, 40 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.

French Stock, per 100, $1 50; per 1000, $12 00; 5,000 lots at $10 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Rhododendrons, in assorted colors, our selection:			
Strong, bushy, well shaped plants, 8-12 buds	$1 00	9 00	
Strong, bushy, well shaped plants, 12-18 buds	1 25	12 00	
Strong, bushy, well shaped plants, 18-24 buds	2 00	20 00	
Lilac, pot-grown, for forcing, Chas. X, Marie Le Graye, Mme. Cassimir Perier, Bertha Dammann, Mme. Lemoine, strong, well branched, with plenty of buds	1 00	10 00	
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Gracilis, pot-grown, 7 in. pots, fine for forcing	15	1 50	12 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Albany N. Y.

The city is about to expend $100,000 upon a soldiers' and sailors' monument to be erected at the northern boulevard entrance to Washington Park. The models will be submitted for competition on May 1, when a committee of judges will select the one deemed most suitable.

The charity ball of January 22 was preceded by a number of dinners for which many table pieces were ordered.

For the care of the park system this year the city has appropriated the sum of $71,000. R. D.

FINDLAY, O.—E. J. Foster & Son have abandoned their down-town store. Miss Emma Barnd, who has been in charge, will occupy a position at the greenhouse on South Cory street.

Rooted Cuttings per 100 prepaid. Coleus 60c, Fuchsia, $1 00; Pilea, 75c; Alternanthera, red and yellow, 50c; Vinca variegated, 80c; Ageratum blue 60c; Heliotrope, blue, 80c. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

SHARON, PA.—John Murchie's boiler gave out January 19 in near zero weather and as no steam could be sent through the pipes, he got busy and hauled a traction engine to his greenhouses, quickly made the necessary steam connections and by firing the engine with about the same energy required in one of the big "hog" engines on the Erie, saved his place from total destruction.

American Beauty ROOTED CUTTINGS

$3.00 per 100; $25.00 per 1000.

Chrysanthemum Stock Plants

Alice Byron, White Bonnaffon, October Sunshine, Major Bonnaffon Col. D. Appleton, Clementine Touset, Mrs Robinson Timothy Eaton, White Ivory, Pink Ivory, Maud Dean, Diana, Black Hawk, $3.00 per 100.

GEO. REINBERG,

51 Wabash Avenue, CHICAGO, ILL.

Mention the American Florist when writing

Dreer's Special Offer of Kentias.

The Stock here offered is all of exceptional good value.

Kentia Belmoreana.

			Per doz.	Per 100	Per 1000
2¼-in. pots	4	leaves, 8 to 10 inches high	$1.50	$10.00	$ 90.00
3 -in. pots	5	leaves, 12 inches high	2.00	15.00	140.00
6 -in. pots	6	leaves, 20 to 24 inches high	1.00 each.		
6 -in. pots	6 to 7	leaves, 26 to 28 inches high	1.50 each.		
6 -in. pots	6 to 7	leaves, 32 to 34 inches high	2.50 each.		
11 -in. tubs	7 to 8	leaves, 6 feet high, very stocky	20.00 each.		
11 -in. tubs	8 to 9	leaves, 7 to 8 feet high, very stocky	25.00 each.		
11 -in. tubs	8 to 9	leaves, 8 feet high, very stocky	30.00 each.		

The three named sizes are exceptionally handsome specimens.

Kentia Forsteriana.

			Per doz.	Per 100	Per 1000
2¼ in. pots	4	leaves, 8 to 10 inches high	$ 2.00	$15.00	$140.00
3 -in. pots	5 to 6	leaves, 15 inches high	2.50	20.00	175.00
4 -in. pots	5 to 6	leaves, 15 inches high	5.00	40.00	
6 -in. pots	6	leaves, 28 to 30 inches high	1.00 each.		
6 -in. pots	6	leaves, 34 to 36 inches high	1.50 each.		
7 -in. pots	6 to 7	leaves, 36 to 40 inches high	2.50 each.		
7 -in. pots	7 to 8	leaves, 36 to 40 inches high	3.00 each.		
8 -in. tubs	6 to 7	leaves, 42 to 44 inches high	4.00 each		
9 -in. tubs	6 to 7	leaves, 5½ feet high	8.00 each		
10 -in tubs	6 to 7	leaves, 6 feet high	10.00 each.		
12 -in. tubs	6 to 7	leaves, 8 to 9 feet high	17.50 each.		
12 -in. tubs	7	leaves, 6 to 7 feet high	20.00 each.		

Kentia Forsteriana—Made-up Plants.

	High	Each
7-in. tubs, 3 plants in a tub, 34 to 36 in		$ 2.50
7-in. tubs, 3 plants in a tub, 36 to 38-in.		3.00
8-in. tubs, 3 plants in a tub, 40 to 42-in.		4.00
8-in. tubs, 3 plants in a tub, 42 to 48 in.		$ 5.00
12-in. tubs, 3 plants in a tub,	6-ft.	15.00
12-in tubs, 3 plants in a tub,	8-ft.	17.50

The two latter sizes are excellent values for decorative purposes.

Kentia Sanderiana

This is a very graceful hardy Palm of fine decorative appearance which should prove a popular variety. We offer fine bushy made-up plants.

4-in. pots, 3 plants in a pot, 15 to 18 inches high ..... $0.75 each
5-in. pots, 3 plants in a pot, 18 to 20 inches high ..... 1.00 each

For a full line of DECORATIVE PLANTS and all other seasonable stock, see our new wholesale list issued January 1st.

HENRY A. DREER, Philadelphia, Pa.

Wittbold FLORIST

Phoenix Canariensis 9-in. pots, 3½ to 4-feet above the pot, 8 to 10 leaves at $2.50 each.

KENTIAS, LATANIAS, PANDANUS, FERNS, PERENNIALS, SHRUBS, ETC.

Assorted Ferns for Ferneries, $3.00 per 100; $30.00 per 1000.

ORDER NOW.
Send for Complete Price List.

THE GEO. WITTBOLD CO.,
1657 Buckingham Place, CHICAGO.

Springfield, O.

CLUB MEETING.

A well attended meeting of the Florists' Club was held at the office of the Good & Reese Co., January 11. After a short business session R. P. Willis addressed the club upon heating with hot water by forced circulation; this talk proved very interesting, especially to the florists of the south side, of which there are six different firms within three blocks of each other, a central heating plant of this or some other kind to heat these six plants has been considered practicable and would mean a large saving in both fuel and labor.

Harry C. Reeser has purchased the tract of land adjoining Gustav Schneider's place and will erect five houses 20x100 feet each early this spring; he intends growing a general line of plants for the wholesale trade.

Gustav Schneider will increase his plant this spring by adding two 24x100-foot and two 10x100-foot houses.

We had our first heavy snow January 11 and 12, 10 to 12 inches having fallen. W. G.

TOLEDO, O.—An overheated smoke-stack caused a fire January 17 in the one-story frame greenhouse of C. W. Counter on Michigan avenue, near Manhattan boulevard, and before the flames were extinguished the property was badly damaged. The loss is estimated at $500 on building and $150 on contents.

GERANIUMS.

$2.00 per 100 and up. 300 varieties described in our Special Geranium Catalogue

Hardy Pompon Chrysanthemums We are headquarters. 80 varieties $2.00 per 100.

Dahlias We are booking orders for plants next spring, or roots next fall.

Lobelia

Kathleen Mallard, the new Double Blue Lobelia, nice stock from 2-in. pots, 50c per doz., $2.00 per 100, 500 for $9.25.

We have ready to ship the following from 2-in. pots at $2.00 per 100:

Verbenas, Lemon Verbenas, Achyranthes, Black Prince and Minnesota Fuchsias, Coleus, Lobelia (Crystal Palace), Hardy English Ivy, Smilax, Salvia, Dreer's Superb Single Petunias, Dwarf Double Alyssum, Ageratum.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Start Your Season's Business Right

by advertising now in this journal. Don't delay. The best orders are placed early with advertisers in the AMERICAN FLORIST.

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Wired Toothpicks

10,000, $1.75; 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers

CUT FLOWER BOXES

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Ageratum, 2-in., 2c; R. C., 50c. Byer Bros., Chambersburg, Pa.

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Alternantheras, 4 varieties, R. C., 50c per 100; 2½-in., $2. Mosbæk Greenhouse Co., Onarga, Ill.

Alternantheras, R. C., 3 kinds, 50c. Byer Bros., Chambersburg, Pa.

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Alyssum, dwf. double, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

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Alyssum, giant dbl., 2½-in., $2 per 100; 300, $5. J. C. Schmidt, Bristol, Pa.

Alyssum. 2½-in., giant dbl., $1.25 per 100. Keeney's Greenhouses, Monongahela, Pa.

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Araucarias, L. Van Houtte, Ghent, Belgium.

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Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in., $5; seedlings, $1 per 100. Plumosus, 2-in., $3; 3-in., $5. G. M. Emmans, Newton, N. J.

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Asparagus plumosus, 2¼-in., $2.50; 3-in., $5; 4-in., $8. Sprengeri, 2¼-in., $2; 3-in., $4; 4-in., $7. Mosbæk Greenhouse Co., Onarga, Ill.

Asparagus plumosus, 2¼-in., $2 per 100. Jos. H. Cunningham, Delaware, O.

Asparagus plumosus, 4-in., $8 per 100. W. W. Coles, Kokomo, Ind.

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Apple Blossom,	Enchantress,
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Carnations, Defiance, $6 per 100; $50 per 1,000. Beacon, White Enchantress, Winsor, $3 per 100; $25 per 1,000. Aristocrat, $4 per 100; $35 per 1,000. Rose Pink Enchantress, Victory, $3 per 100; $20 per 1,000. Lawson, $1.50 per 100; $12.50 per 1,000. Jensen & Dekema, 674 W. Foster Ave., Chicago.

Carnations, Enchantress, Nelson Fisher, $15 per 1,000. Rose Pink Enchantress, $20 per 1,000. Winsor, Beacon, White Perfection, $25 per 1,000. Superior, $30 per 1,000. White Enchantress, $35 per 1,000. J. D. Thompson Carnation Co., Joliet, Ill.

Carnations, White Perfection, Beacon, $25 per 1,000. White Enchantress, Winsor, Rose Pink, Victory, $20 per 1,000. Sarah Hill, Afterglow, Winona, $50 per 1,000. Enchantress, $18 per 1,000. E. G. Hill Co., Richmond, Ind.

Carnations, White Perfection, Enchantress, Melody, Winsor, Rose Enchantress, V. Lawson, Octoroon, $3 per 100; $25 per 1,000. Beacon, $4 per 100; $35 per 1,000. Winona, Splendor, Viola Sinclair, $6 per 100; $50 per 1,000. Peter Fisher, Ellis, Mass.

Carnations, Enchantress, Rose Pink Enchantress, White Perfection, Melody, White Lawson, $2.50 per 100; $20 per 1,000. White Enchantress, Winsor, Beacon, Victory, Aristocrat, Vesper, $3.50 per 100; $30 per 1,000. Splendor, $6 per 100; $50 per 1,000. East Sudbury Greenhouses, So. Sudbury, Mass.

Carnations, Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson, Harlowarden, Eli Cross, 25 Monroe St., Grand Rapids, Mich.

If you do not find what you need in our Ready Reference Department, write us about it

Carnations, Cardinal, Queen, Enchantress, Lady Bountiful, $15 per 1,000. Rose Pink and White Enchantress, Beacon, Victory, $25 per 1,000. Wm. Murphy, 311 Main St., Cincinnati, O.

Carnations, Bay State, Georgia, Mrs. J. C. Vaughan, $12 per 100; $100 per 1,000. Enchantress, Craig, Imperial, Lawson and standard kinds, $3 per 100. Chas. H. Totty, Madison, N. J.

Carnations, 5,000 Fair Maid, 500 each Queen, Cluster Roper, Craig, White Lawson, $6 per 100; $50 per 1,000; 500 Afterglow, $14 per 100; $60 for lot. C. H. Totty, Madison, N. J.

Carnation Mrs. J. C. Vaughan, $12 per 100; $100 per 1,000. Jensen & Dekema, 674 W. Foster Ave., Chicago.

Carnation Lloyd, from sand, $3 per 100; $25 per 1,000; from soil, $4 per 100; $35 per 1,000. John Bennett, Atlantic Highlands, N. J.

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Carnation Georgia, R. C., $2 per doz.; $12 per 100. James D. Cockcroft, Northport, N. Y.

Carnations, Apple Blossom, Wanoka. Wanoka Greenhouses, Barneveld, N. Y.

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Carnations, Standard var. J. L. Dillon, Bloomsburg, Pa.

Carnations, Mrs. J. C. Vaughan and O. P. Bassett. Vaughan's Seed Store, Chi. and N. Y.

Carnations. Wood Bros., Fishkill, N. Y.

Carnations. A. M. Herr, Lancaster, Pa.

Carnations. Patten & Co., Tewksbury, Mass.

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100,000 Mums, R. C., $1.25 per 100; $10 per 1,000; 2-in., $2 per 100; $18 per 1,000. Cash. L. J. Rowe, Titusville, Pa.

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Chrysanthemums, leading vars. Wood Bros., Fishkill, N. Y.

Chrysanthemums. Chas. H. Totty, Madison, N. J.

Chrysanthemum Golden Glow. Eli Cross, Grand Rapids, Mich.

Chrysanthemums, hardy, $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

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Cineraria hybrida, 2½ and 3-in., $4 and $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Cinerarias, 2½-in., 300 for $5; 4-in., $5 per 100. J. C. Schmidt, Bristol, Pa.

Cinerarias, dwarf, 3-in., $6 per 100. Perennial Gardens Co., Toledo, O.

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Coleus, 10 fine varieties, R. C., 60c to 75c; 2¼-in., $2. Mosbæk Greenhouse Co., Onarga, Ill.

Coleus, R. C., 60c. Byer Bros., Chambersburg, Pa.

Coleus, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Coleus, 10 varieties, 2¼-in., $2 per 100. Jos. H. Cunningham, Delaware, O.

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Cupheas, R. C., 75c. Byer Bros., Chambersburg, Pa.

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Cyclamens, finest giant strain from 3-in. pots, nice plants, full of buds, 7c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

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Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

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Paris daisies, giant white and yellow, 2-in., 2c. Byer Bros., Chambersburg, Pa.

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Dracæna indivisa, transplanted, 10 to 12 inches, $2.50 per 100; $20 per 1,000; 4-in. pots, $35 per 1,000. Palm Washingtonia robusta, 3-in., $6 per 100, f. o. b. Los Medanos Nursery, Cornwall, Calif.

Dracæna terminalis, $9, $12 and $18 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Dracæna indivisa, 3-in., $5; 4-in., $12; 5-in., $20. Mosbæk Greenhouse Co., Onarga, Ill.

Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

FERNS.

Ferns, Boston, 6-in., 50c; 7-in., 75c; $1, $1.25. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c to $1. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50. Amerpohli, 5½-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ferns. 100 Whitmani, 2½-in., $5 per 100; 100 3-in., $12; 75 Boston, 3-in., $6 per 100; 75 Piersoni, 3-in., $8 per 100; 75 2½-in., $5 per 100; 50 Elegantissima, 2½-in., $5 per 100, Perennial Gardens Co., Toledo, O.

Ferns, Boston, 2¼-in., $3; 3-in., $6; 4-in., $12; 5-in., $25; 6-in., $40. Piersoni, 8-in., $100. Scottii, Whitmani and Elegantissima. 2¼-in., $5; 3-in., $10; 6-in., $75. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, 5 and 6-in. Boston and Whitmani. Keeney's Greenhouses, Monongahela, Pa.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Ferns, Adiantum Farleyense, $18 per doz.; large cut fronds, $10 per 100. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Ferns, assorted, for ferneries, $3 per 100; $30 per 1,000. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Boston, Scottii, Whitmani, Farleyense, all sizes. Samuel A. Woodrow, 53 W. 30th St., New York.

Ferns, Boston, 5-in., 30c each. Geo. M. Emmans, Newton, N. J.

ERICAS.

Erica epacris alba, 3½-in., $10 per 100; Persoluta rubra, 3½-in., $10 per 100; Melanthera, 3½-in., $10; Regerminans, 3-in., $8 per 100. Anton Schultheis, College Point, N. Y.

FEVERFEW.

Feverfew, R. C., $1; 2¼-in., $2.50. Mosbæk Greenhouse Co., Onarga, Ill.

FICUS.

Ficus, 5½ and 6-in., 25c, 30c and 40c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Rubbers. P. J. Berckmans Co., Augusta, Ga.

FUCHSIAS.

Fuchsias, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Fuchsias, 8 kinds, R. C., $1. Byer Bros., Chambersburg, Pa.

GERANIUMS.

Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

100,000 GERANIUM CUTTINGS.—We are supplying the finest stock on the market, of the following SUPERB BEDDERS; are semi-double. S. A. Nutt, crimson; Peter Henderson, scarlet; Jean Viaud, pink; Beaute Poitevine, salmon; Mme. Buchner, white; top cuttings, well rooted, $1.75 per 100; $15 per 1,000. The W. T. Buckley Co., Springfield, Ill.

Geraniums, Nutt, Jean Viaud and rose geraniums, 2¼-in., $2.50 per 100. Buffalo Cut Flower Co., 495 Washington St., Buffalo, N. Y.

Geraniums, single and dbl. Grant, Buchner, etc., 2-in., 2c. Rose geranium, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Geraniums, S. A. Nutt, 2-in., $2 per 100; $20 per 1,000. C. B. Knuth, 11801 St. Clair Ave., Cleveland, O.

Geraniums, standard varieties, R. C., $1.75 and $15 per 1,000; 2¼-in., $3 and $25 per 1,000. Mosbæk Greenhouse Co., Onarga, Ill.

Geraniums, 2½-in., dbl., mixed, reds, pinks and whites, $1.75 per 100. Keeney's Greenhouses, Monongahela, Pa.

Geraniums, Nutt and 10 other varieties, 2¼-in., $2.50 per 100. Jos. H. Cunningham, Delaware, O.

Geraniums, 2-in., $2 per 100 up. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Geraniums. A. M. Herr, Lancaster, Pa.

GLOXINIAS.

Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

GREENS.

Greens, fancy and dagger ferns, $1.75 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $7.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

Greens, bronze and green galax, 50c per 1,000. Fancy and dagger ferns, $1 per 1,000. Green leucothoe sprays, $2.50 per 1,000; bronze, $4. Rhododendron sprays, $2 per 1,000. Mountain laurel sprays, $2 per 1,000. J. N. Pritchard, Elk Park, N. C.

Greens, evergreens, fancy and dagger ferns, bronze and green galax. Geo. Cotsonas & Co., 53 W. 28th St., New York.

Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala.

Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, Southern wild smilax, case 50 lbs., $2. J. A. Rumbley, Evergreen, Ala.

Greens, smilax, ferns, palm leaves, etc. John P. Scherer, Union Hill, N. J.

Greens, hardy cut evergreens, etc. Henry M. Robinson & Co., 15 Province St., Boston.

HARDY PERENNIALS

Fine selection of Hardy Perennials. Send for descriptive list. Mosbæk Greenhouse Co., Onarga, Ill.

Hardy pinks, R. C., 75c. Byer Bros., Chambersburg, Pa.

HELIOTROPES.

Heliotrope, R. C., $1. Byer Bros., Chambersburg, Pa.

Heliotrope, 5 of the best; R. C., $1; 2¼-in., $2.50. Mosbæk Greenhouse Co., Onarga, Ill.

HYDRANGEAS.

American Everblooming hydrangeas, strong field-grown plants, 15 inches and up, $2 per doz.; $15 per 100. Field-grown plants, 8 to 12 inches, $1.50 per doz.; $10 per 100; $90 per 1,000. Lists free. The E. Y. Teas Co., Centerville, Ind.

Hydrangeas. W. & T. Smith Co., Geneva, N. Y.

IRISES.

German iris, 25 named varieties, $2.50 per 100; mixed, $2 per 100. Elmhurst Nursery, Argentine, Kansas.

Iris Germanica and Kæmpferi. E. S. Miller, Wading River, L. I., N. Y.

IVIES.

Ivy, English, R. C., $2 per 100. John Nyflot, 7311 Florissant Ave., St. Louis, Mo.

Ivy, hardy English, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

If you do not find what you need in our Ready Reference Department, write us about it.

LILACS.

Lilac, pot-grown for forcing, Chas. X, Marie LeGraye, Mme. Casimer Perier, Bertha Dammann, Mme. Lemoine, well branched, with buds, $1 each; $10 per doz. Vaughan's Seed Store, Chicago and New York.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley, Reimschneider's Perfection, 3-yr. crowns, $16 per case of 1,000. Holsatia, for late forcing, 3-yr. crowns, $24 per case. Jackson & Perkins, Newark, N. Y.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

Lily of the valley pips. J. M. Thorburn & Co., 33 Barclay St., New York.

From Storage.

Lily of the valley, cold storage, $2 per 100; $15 per 1,000. New crop for forcing, $1.75 per 100; $14 per 1,000. H. N. Bruns, 1409 Madison St., Chicago.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., 50c per doz.; $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

MOSS.

Sphagnum moss, 1 bale of 5 bbls., $1.60; 5 bales, $7.25; 10 bales, $13.50; 1 bale of 7½ bbls., $2.25; 5 bales, $10; 10 bales, $18; 1 bale of 10 bbls., $3; 2 bales, $5.50; 5 bales $12.50. Brookville Moss and Peat Co., Brookville, N. J.

Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Johnson Seed Co., 217 Market St., Philadelphia.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn, Mill Track, $6 per 100 lbs. W. C. Beckert, N. S., Pittsburg, Pa.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, Berckman's dwarf golden arborvitæ. Althæa Meehanii, weeping mulberry, Magnolia grandi. Azalea Indica, Camellias. P. J. Berckmans Co., Augusta, Ga.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Planes, straight, transp., 10 to 12 ft., $10 per 100; 12 to 14 ft., $12 per 100. Conifers. C. Kerkvoorde, Wetteren, near Ghent, Belgium.

Nursery stock, fruit and shade trees, shrubs, evergreens, tree roses. W. & T. Smith Co., Geneva, N. Y.

Nursery stock, Forsythia, 18 to 24 in., well rooted, $2 per 100. Tamarix, 4 to 5 ft., $6 per 100. Elmhurst Nursery, Argentine, Kans.

Nursery stock, arbor vitæ (Thuya occidentalis) 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock. Storrs & Harrison, Painesville, O.

Nursery stock, conifers, Koster spruce, etc. Kallen & Lunnemann, Boskoop, Holland.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Areca lutescens, 4-in., 3 plants in pot, 25c. Kentia Bel., 5½-in., 25 to 30 ins., 50c to 60c each; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each; 5½-in., 20 to 25 ins., 50 to 60c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, Kentias, latanias. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Palms, Kentia Bel., 2¼-in., 4 leaves, 8 to 10 ins., $1.50 per doz.; $10 per 100; $90 per 1,000; 3-in., 5 lvs., 12 ins., $2 per doz., $15 per 100; $140 per 1,000; 6-in., 6 lvs., 20 to 24 ins., $1 each; 6-in., 6 to 7 lvs., 26 to 28 ins., $1.50 each; 6-in., 6 to 7 lvs., 32 to 34 ins., $2.50 each; 11-in. tubs, 7 to 8 lvs., 6 ft., $20 each; 11-in., 8 to 9 lvs., 7 to 8 ft., $25 each; 11-in., 8 to 9 lvs., 8 ft., $30 each. Kentia Fors., 2¼-in., 4 lvs., 8 to 10 ins., $2 per doz.; $15 per 100; $140 per 1,000; 3-in., 5 to 6 lvs., 15 ins.; $2.50 per doz.; $20 per 100; $175 per 1,000; 4-in., 5 to 6 lvs., 15 ins., $5 per doz.; $40 per 100; 6-in., 6 lvs., 28 to 30 ins., $1 each; 6-in., 6 lvs., 34 to 36 ins., $1.50 each; 7-in., 6 to 7 lvs., 36 to 40 ins., $2.50 each; 7-in., 7 to 8 lvs., 36 to 40 ins., $3 each; 8-in., tubs, 6 to 7 lvs., 42 to 44 ins., $4 each; 9-in., 6 to 7 lvs., 5½ ft., $8 each; 10-in., 6 to 7 lvs., 6 ft., $10 each; 12-in., 6 to 7 lvs., 8 to 9 ft., $17.50 each; 12-in., 7 lvs., 6 to 7 ft., $20 each. Made-up Kentia Fors., 3 plants in tub, 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 8-in., 40 to 42 ins., $4; 8-in., 42 to 48 ins., $5; 12-in., 6 ft., $15; 12-in., 8 ft., $17.50. Kentia Sanderiana, 4-in., 3 to pot, 15 to 18 ins., 75c each; 5-in., 18 to 20 ins., $1 each. Henry A. Dreer, Philadelphia.

Palms, Kentia Bel., 7-in. 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Joseph Heacock Co., Wyncote, Pa.

Palms, Latania specimens, 8-in., $1.50 each; $16 per doz. Wagner Park Conservatories, Sidney, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, strong, transplanted from fall, almost ready to bloom, finest strains, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Choicest strain of seedling pansies, $3 per 1,000 or 50c per 100. Strong plants ready to transplant. Joy Floral Co., Nashville, Tenn.

Pansies, select strains, giant, 50c per 100; $3 per 1,000, splendid plants. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

PANDANUS.

Pandanus Veitchii, 6-in., $18 per doz.; specimens, $3 to $7.50 each. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Pandanus. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums, R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

PETUNIAS.

Petunias, Dreer's superb single, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Petunias, Marvel, R. C., $1; 2¼-in., $2.50. Mosbæk Greenhouse Co., Onarga, Ill.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

POINSETTIAS.

Poinsettias, 35c each; $4 per doz. Samuel A. Woodrow, 53 W. 30th St., New York.

PRIMULAS.

Primula Chinensis in bloom, 5½-in., $2.50 per doz. Obconica, 4-in., 10c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Primroses, Chinese, 2½-in., $5 per 100. Perennial Gardens Co., Toledo, O.

PRIVET.

AMOOR RIVER PRIVET, 300,000, all sizes. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

Rhododendrons, assorted colors, our selection, 8 to 12 buds, $1 each; $9 per doz.; 12 to 18 buds, $1.25 each; $12 per doz.; 18 to 24 buds, $2 each; $20 per doz. Vaughan's Seed Store, Chicago and New York.

Rhododendrons. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Rhododendrons. Kallen & Lunnemann, Boskoop, Holland.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROOTED CUTTINGS.

Rooted cuttings: Ageratum Stella Gurney, Dew plants, tradescantia, German ivy, 50c per 100. Mixed flowering begonias, $1 per 100. Keeney's Greenhouses, Monongahela, Pa.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots, $2 per doz.; $12 per 100; 2-yr., 2 to 3 ft., budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots, $3 per doz.; $15 per 100; 3-yr., 3 to 5 ft., budded, $3 per doz.; $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins; Dormant 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown. 1st size, budded, $2.50 per doz.; $16 per 100; $150 per 1,000; 2nd size, grafted, $2 per doz.; $12 per 100; $100 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1-yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 5-in., 35c each; $3.50 per doz.; $25 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Vaughan's Seed Store, Chicago and New York.

Roses for forcing: Crimson Rambler, Dorothy Perkins, Lady Gay, XXX, $12 per 100; XX, $10 per 100; No. 1, $8. Hybrid perpetuals: Magna Charta, Mme. Gabriel Luizet, Mrs. Cleveland, M. P. Wilder, F. Levet, Frau Karl Druschki, Mrs. John Laing, Marchioness of Lorne, etc., $10 per 100; U. Brunner, $13; Am. Beauty, $15. Jackson & Perkins Co., Newark, N. Y.

Roses. White Baby Rambler, 2½-in., $1 per doz.; $6 per 100; 3-in., $1.50 per doz.; $10 per 100; 4-in., $2.50 per doz.; $20 per 100. Baby Dorothy, 3-in., $2 per doz.; $15 per 100; 4-in., $3 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, low budded on Rosa canina, our selection, $4 per 100; purchaser's selection, $5 per 100. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Roses, dormant field-grown, Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, F. Levet, Jacq., Prince C. de Rohan, Magna Charta, U. Brunner, Giant of Battles, etc., $16 per 100; $1.50 per 1,000. Dingee & Conard Co., West Grove, Pa.

Rose White Killarney, 2¼-in., own roots, $30 per 100; 250, $70; 500, $125; 1,000, $250: grafted, $5 per 100 additional. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Roses. C. Soupert, 2-yr., field-grown, $18 per 100. Anna Mueller, $15. Crimson Rambler, $12, $16, $18. Perennial Gardens Co., Toledo, O.

Rose My Maryland, grafted, 2½-in., $20 per 100; $150 per 1,000; own roots, 2½-in., $10 per 100; $90 per 1,000. S. J. Reuter & Son, Westerly, R. I.

Roses, field-grown, Newport Fairy, 1-year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Rose White Killarney, $30 per 100; $250 per 1,000. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Roses, Am. Beauty, R. C., $3 per 100; $25 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Roses. White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, Am. Beauties, R. C. and 2¼-in. J. F. Wilcox, Council Bluffs, Iowa.

Roses, 400 sorts, 2½ and 4-in. Leedle Floral Co., Springfield, O.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

If you do not find what you need in our Ready Reference Department, write us about it.

Roses for forcing. W. & T. Smith Co., Geneva, N. Y.

Rose White Killarney. Waban Rose Conservatories, Natick, Mass.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses. Chas. H. Totty, Madison, N. J.

SALVIAS.

Salvias, 6 varieties, R. C., $1; 2¼-in., $2. Mosbæk Greenhouse Co., Onarga, Ill.

Salvia splendens, Bonfire, R. C., 75c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

SEEDS.

Seeds, alyssum, Vaughan's Little Gem, lb., $3.50; tr. pkt., 10c; oz., 35c. Asparagus plumosus nanus, 100 seeds, 50c; 1,000 seeds, $3.50; 5,000 to 10,000 seeds, $3.25 per 1,000. Begonias, Berna, tr. pkt., 15c. Salmon Queen, Semperflorens, Red Lubecca, tr. pkt., 25c. Lobelia, Bedding Queen, tr. pkt., 15c; ⅛ oz., 25c; oz., $1.50; Speciosa, tr. pkt., 10c; oz., 55c: Hambrugin. tr. pkt., 25c; Maurandya, ¼ oz., 25c; tr. pkt., 10c; oz., $1. Petunias, Vaughan's best mixture, large flowering, tr. pkt. (1,000 seeds) 50c; 3 pkts., $1.25; Howard's Star, tr. pkt., 10c; oz., 80c; Snowball, ⅛ oz., 25c; tr. pkt., 10c; Salvia Splendens, Clara Bedman or Bonfire, tr. pkt., 25c; oz., $2.50; Salvia Zurich, ¼ oz., $1.25; tr. pkt., 25c. Smilax, new crop, lb., $3; tr. pkt., 10c; oz., 25c. Stocks, Prince Bismarck, tr. pkt., 25c. Thunbergia, mixed, tr. pkt., 10c; oz., 40c. Verbenas: Defiance, tr. pkt., 10c; oz., 80c; Firefly, tr. pkt., 15c; oz., $1.20; Mammoth mixed, tr. pkt., 10c; oz., 80c; white, tr. pkt., 15c.; oz., $1; rose and carmine shades, tr. pkt., 25c; oz., $2; purple, tr. pkt., 25c; oz., $2; Mayflower, tr. pkt., 15c; oz., $1; choice mixed and Venosa, tr. pkt., 5c; oz., 20c; Lemon (citriodora), tr. pkt., 20c; oz., $1.25; Vaughan's Best Mixture, tr. pkt., 25c; ¼ oz., 50c; oz., $2; 2 ozs., $3.50. Vaughan's Seed Store, Chicago and New York.

Seeds, Salvia Bonfire, $2.25 per oz.; tr. pkt., 25c; Splendens, $1 per oz.; tr. pkt., 15c; Zurich, 1-16 oz., $1.25; tr. pkt., 50c. Verbenas, oz., $2; tr. pkt., 25c. Lobelia Crystal Palace, tr. pkt., 25c; Speciosa, tr. pkt., 10c. Begonia Vernon, 1-16 oz., 50c; tr. pkt., 25c; Erfordii, tr. pkt., 25c; Semperflorens magnifica, 1-32 oz., $1.50; tr. pkt., 50c. Stocks, Cut and Come Again, ⅛ oz., 50c; tr. pkt., 25c. Primula obconica gigantea, 4 colors and mixed, tr. pkt., 50c. Asparagus plumosus, $4 per 1,000. Sprengeri, 75c per 1,000. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Seeds. Stocks, Cut and Come Again, asst. colors, tr. pkt., 25c; Dwarf Bouquet, tr. pkt., 25c; Snowflake, tr. pkt., 50c; Petunia, fringed, single mixed, tr. pkt., 50c; double mixed, tr. pkt., $1. W. O. Beckert, 103 Federal St., North Side, Pittsburg, Pa.

Seeds. Salvia splendens; Nana Compacta, Zurich; Compacta Grandi, Fireball; Grandiflora Ameliorata, King of the Scarlets, tr. pkt. 50c; 6 pkts., $2.50. O. V. Zangen, Hoboken, N. J.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, onion, beet, tomato, cabbage, cucumber, sweet corn, seed potatoes and onion sets. S. D. Woodruff & Sons, 82-84 Dey St., New York.

Seed pansy, Trimardeau, 2-3 oz., $1.50; Cassier, 2-3 oz., $2.50; Germania, 2-3 oz., $2.50; Spotted Odier and Bugnots, 2-3 oz., $2. C. Schwanecke, Oschersleben, Germany.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds, natural grass, clover, agricultural and forest tree seeds, grass seed mixtures. Conrad Appel, Darmstadt, Germany.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seeds. D. Landreth Seed Co., Bristol, Pa.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seed, Salvia Zurich, Zurich grown, 50c tr. pkt. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, giant flowering pansy, $4 per oz. Jos. H. Cunningham, Delaware, O.

Onion seeds. We are extensive growers and dealers. Schilder Bros., Chillicothe, O.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton C. Zvolanek, Boundbrock, N. J.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, choice German flower seeds. Fredrick Roemer, Quedlinburg, Germany.

Seed, onion Southport White Globe 1908 crop, Laughlin Seed Co., Kenton, O.

Seeds, field seed corn. Ratekin's Seed House, Shenandoah, Iowa.

Seeds, Bermuda onions. Wildpret Bros., Port Orotava, Teneriffe, Canary Islands.

Contract Growers.

Seeds, new sweet peas: Mrs. Walter Wright Spencer, Senator Spencer, Black Knight Spencer, Gaiety Spencer, Prince of Wales Spencer, Juanita Spencer, Blanch Ferry Spencer, Ruby Spencer, New nasturtiums: Dwarf Orange var. foliage, Tall Croesus, Tall Scarlet, Tall Salmon var. foliage. Dwarf var. Ivy Leaf Princess, Golden Rose (gold leaved), Lilliput Lady Cherry. Routzahn Seed Co., Arroyo Grande; Calif.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet pea, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seed beans. F. L. Hogue, Carpinteria, Calif. Grower for the wholesale trade only.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SMILAX.

Smilax, nice plants, early fall sowing, just right for carrying forward, 50c per 100; $3 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spireas. Jacs Smits, Ltd., Naarden, Holland.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, Lemon, Aloysia citriodora, 40c per doz.; $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Verbenas and lemon verbenas, 2-in., $2 per 100. R. Vincent, Jr., & Sons, White Marsh, Md.

Verbenas, R. C., 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Verbenas. J. L. Dillon, Bloomsburg, Pa.

VINCAS.

Vinca variegated, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, field-grown, $4 per 100. W. W. Coles, Kokomo, Ind.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

VIOLETS.

Violets. Wood Bros., Fishkill, N. Y.

WHOLESALE CUT FLOWERS.

Commission Dealers.

Abrahamson, Wm. W., 21 Wabash Ave., Chicago.

Amling, E. C., 32-36 Randolph St., Chicago.

Berning, H. G., 1402 Pine St., St. Louis.

Buffalo Cut Flower Co., 495 Washington St., Buffalo, N. Y.

Deamud, J. B., Co., 51 Wabash Ave., Chicago.

Ford Bros., 48 W. 28th St., New York.

Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., N. Y.

Guttman, Alex. J., 34 W. 28th St., New York.

Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

Hunt, E. H., 76 Wabash Ave., Chicago.

Kennicott Bros. Co., 48-50 Wabash, Chicago.

Keuhn, C. A., 1122 Pine St., St. Louis.

Krueger Bros., Toledo, O.

Langjahr, Alfred H., 55 W. 28th St., N. Y.

McCallum & Co., 937 Liberty Ave., Pittsb'g. Pa.

McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.

McKellar, Chas. W., 51 Wabash Ave., Chicago.

McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.

Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.

Millang Bros., 41 W. 28th St., New York.

Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.

Murphy, Wm., 311 Main St., Cincinnati, O.

Niessen Co., Leo, 1208 Arch St. Philadelphia.

N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.

Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.

Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.

Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.

Pollworth, C. C., Co., Milwaukee, Wis.

Randall, A. L., Co., 19 Randolph St., Chicago.

Raynor, John I., 49 W. 28th St., New York.

Rice Bros., 128 N. 6th St., Minneapolis, Minn.

Robinson, Henry M. & Co., 11-15 Province St., Boston.

Schreiner, Nicholas C., 41 W. 28th St., N. Y.

Seligman, John, 56 W. 26th St., New York.

Sheridan, Walter F., 39 W. 28th St., N. Y.

Smith & Co., W. C., 1316 Pine St., St. Louis.

Traendly & Schenck, 44 W. 28th St., N. Y.

Vaughan & Sperry, 58-60 Wabash Ave., Chicago.

Welch Bros., 226 Devonshire St., Boston.

Winterson, E. F. Co., 45-49 Wabash, Chicago.

Young, A. L., & Co., 54 W. 28th St., N. Y.

Young, John, 51 W. 28th St., N. Y.

Young & Nugent, 42 W. 28th St., New York.

Zech & Mann, 51 Wabash Ave., Chicago.

Growers.

Bassett & Wasburn, 76-78 Wabash, Chicago.

Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.

Bruns, H. N., 1409-11 W. Madison, Chicago.

Budlong, J. A., 37-39 Randolph St., Chicago.

Elliott, W. H., Brighton, Mass.

Hill, The E. G. Co., Richmond, Ind.

Jensen & Dekema, 674 W. Foster Ave., Chicago.

Peacock Dahlia Farms, Atco, N. J.

Poehlmann Bros. Co., 35-37 Randolph, Chicago.

Reinberg, Peter, 35 Randolph St., Chicago.

State Nursery Co., Helena, Mont.

Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

Weiland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

Woodrow, Samuel A., 53 W. 30th St., N. Y.

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Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.

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Chicago—Hauswirth, Florist, Auditorium Annex.

Chicago—Wittbold, Florist, 1657 Buckingham Place.

Chicago—The Floral Shop (Schnell & Poppe). 705 W. Madison St.

Cincinnati, O.—Julius Baer, 138 E. 4th St.

Dayton, O.—Matthews, 16 W. 3d St.

Colorado Springs, Colo.—Frank F. Crump.

Denver, Colo.—Daniels & Fisher.

Denver, Colo.—The Park Floral Co.

Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.

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Philadelphia, Pa.—Robt. Kift, 1725 Chestnut St.

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Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

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Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

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Sunlight double glass hotbed sash. Sunlight Sash Co., 506 Floyd St., Louisville, Ky.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

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Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

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Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

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Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

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Insecticides, tobacco paper, 24 sheets, 75c; 144, $3.50; 288, $6.50; 1,728, $35.10. Nicofume liquid, pint, $1.50; ½ gal., $5.50; gal., $10.50; 5 gals., $47.25. The Kentucky Tob. Product Co., Louisville, Ky.

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Fumigating supplies, vaporizing pans for tobacco extract, improved. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Insecticides. Carman's Antipest Insecticide and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

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Fresh Tobacco Stems, bales 200 lbs. upwards, 50c per 100 lbs. Scharff Bros., Van Wert, O.

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Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

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Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Wire work, second to none. Wm. H. Woerner, 520 N. 16th St., Omaha, Neb.

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Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

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FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

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To-Bak-Ine Liquid has been proven by State Tests to be the

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on the market—contains most pure Nicotine (the ingredient that determines cost to us and value to you)—most uniform in strength. All the other To-Bak-Ine Products are equally efficient and reliable.

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TO-BAK-INE LIQUID Kills Thrips, White Fly, Green Fly, Black Fly, Red Spider, etc. PRICES:—¼ pint, 60c; ½ pint, $1.10; 1 pint, $2.00; ½ gal., $7.75; 1 gal., $15.00; 5 gals., $67.50. Write for prices on 10, 20, 40-gal. casks with locked faucet and for complete spraying directions and other information.

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Send for "Words of Wisdom" Booklet—Free.

To-Bak-Ine Fumigating Paper is the most satisfactory agent for the destruction of Green Fly that has ever been brought to our notice. As you know, we have been heavy buyers of this product, all of which has been used in our own greenhouse.—F. R. & P. M. PIERSON, Scarborough, N. Y.

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I have used your To-Bak-Ine Fumigating Powder in carnation and rose houses, fumigating in the carnation houses once a week and in the rose houses twice a week. It has entirely kept down Aphis. It leaves no odor on the flowers and has not, in the slightest, hurt either flower or foliage on the roses, as does burning tobacco stems.—WILLIAM SCOTT, Corfu, N. Y.

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Send for free 5-lb. sample.

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Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

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Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, N. Y.

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Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

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U-N-I-T Globe Sprayer, $3.50 prepaid. J. F. Cass Mfg. Co., Dept. A., Detroit, Mich.

The Crestline "Sunshine" spraying pump. Crestline Mfg. Co., Crestline, O.

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Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

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Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

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Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

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Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburg, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

Supplies, wire designs, etc. The Cleveland Cut Flower Co., 215 Huron Road, Cleveland, O.

Supplies and wire designs, etc. Henry Kusik & Co., 73 Western Ave., Minneapolis, Minn.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

Supplies of all kinds. A. L. Randall Co., 19-21 Randolph St., Chicago.

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"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

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Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VENTILATING APPARATUS.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilators, the Standard ventilating machinery, original machine with self-oiling cups, most powerful, least complicated, very compact. E. Hippard, Youngstown, O.

Foley ventilating apparatus, unexcelled. Send for circulars and estimates. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Ventilators. The Advance Ventilating Apparatus. Write for estimates and circulars. The Advance Co., Richmond, Ind.

Ventilators. Evans' Improved Challenge ventilating apparatus. Quaker City Machine Works, Richmond, Ind.

Ventilators, hand ventilating, etc. The King Construction Co., N. Tonawanda, N. Y.

Washington.

MANY SOCIETY FUNCTIONS.

The White House decorators had another chance to display their skill in working out artistic effects, with plants and flowers of every description, when the president and Mrs. Roosevelt were hosts at the second in the series of state functions of the winter, the judiciary reception, in honor of the supreme court. Many other receptions were in progress during the week; dinners and luncheons were in evidence everywhere, and hence the demand for flowers increased to a great extent.

NOTES.

At a dinner given by the Argentine minister and his wife, in honor of the newly appointed American minister to Argentine, and Mrs. Huntington Wilson, the floral decorations were quite elaborate, orchids, white, lilac, and Richmond roses were used extensively. Geo. C. Shaffer executed the work.

The committee which will have charge of the decorations for the inaugural ball, and decorations of Pennsylvania avenue, is requesting bids on this work from the local retailers.

Geo. H. Cooke furnished the center pieces for a dinner at Mrs. Munn's, the Italian embassy and at a banquet at Rauchers all the same evening.

Marche & Co. have an order for a giant wreath which they will ship to Paris. It is made of artificially colored bay leaves.

At a dinner at which Postmaster General Von Meyer was host, J. H. Small used a great number of carnations.

The Florists' Club meeting will be held February 2. Election of officers will be the main business of the meeting.

G. S.

Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

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144 sheets..... 3.50
288 sheets..... 6.50
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OVER 40% NICOTINE.

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By far the CHEAPEST.

JUST NOTE PRICES:

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

Answers to Country Life Commission.

The commission on country life, appointed by President Roosevelt, has sent out a list of questions to farmers and all others interested. Following are the questions, and the answers as given by a farmer, says the Wisconsin Agriculturist:

1. Are the farm homes in your neighborhood as good as they should be under existing conditions?

What is meant by good? Do you suspect our morals? We are reasonably law-abiding, and vote as often as permitted.

2. Are the schools of your neighborhood training boys and girls satisfactorily for life on the farm?

No. We train them to go to the city and become lawyers, merchants, frenzied financiers and other honorable and remunerative occupations.

a. Why?

Why? Because we think there is more to eat and more money to buy things to eat near the cold storage safety deposit vaults.

b. What suggestions have you to make?

Gosh! I dunno. Money might be sent to us. We need more automobiles. Don't send cast-off clothing, whatever you do.

3. Do the farmers in your neighborhood get the returns they reasonably should from the sale of their products?

You bet they don't, boys.

a. Why?

Our acres don't produce enough, so that when juxtapoised over forninst our needs, there is a surplus coming our way.

b. What suggestions have you to make?

Race suicide or emigration.

4. Do the farmers receive from the railroads, etc., the service they reasonably should have?

Our transportation people seem to be doing all they can, under the awful load of governing we have been asking them to tote.

b. What suggestions have you to make?

Hang a few agitators.

6. Are the farmers and their wives in your neighborhood satisfactorily organized to promote their mutual buying and selling interests?

Yes. Our wives are not as the wives of some we know. Our wives are all right.

b. What suggestions have you to make?

Be careful about your questions about our wives, or keep away from this district.

8. Is the supply of farm labor in your neighborhood satisfactory?

Yes, at $30 per month and board, and if you keep a good-looking hired girl and a horse and buggy for their use.

9. Are the conditions satisfactory to the hired men?

Under the above conditions I may say yes. More girls would only be a source of trouble.

b. What suggestions have you to make?

One girl and a horse and buggy per man, with use of owner's automobile to attend divine worship.

10. Have the farmers in your neighborhood satisfactory facilities for doing their business in banking, credit, insurance, etc.?

Oh, yes; we have no trouble to bank anything we have, and can always borrow on a first mortgage; the second, third and fourth mortgages are not so easy.

a. Why?

The banker usually has heart failure over a second mortgage.

11. Do the farmers and their wives and families in your neighborhood get together for mutual improvement?

No. We lie about each other too much. Let's not go into this, please.

12. What, in your judgment, is the most important single thing to be done for the general betterment of country life?

There isn't a single thing. Life is an endless round of joy in the rural districts. All we need is more than we've got. We are born healthy, live frugally, marry the best we can, divorce seldom, obey the law (we don't need much law in the country), vote as we're told—most of the time; are long on common sense and don't ask impertinent questions of strangers.

Stop the Wind in the Greenhouse.

WORDS FROM TWO EASTERN MEN.

"Your Paint and Putty saved us, for the time being at any rate, a complete rebuilding. We used a barrel of the Twemlow Putty — it is great stuff."

"Your Twemlow's Old English Liquid Putty is certainly great stuff. Two winters ago there were two houses which the high winds shifted a little during a cold spell, which left quite an opening between the glass and the woodwork. It was zero weather and too cold to do anything outside. I was puzzled to know what to do. I took the putty bulb and went over it on the inside, just to tide over the cold weather, **but to my surprise** it staid and is as good to-day as if put on under the most favorable circumstances.

"I write this because it may be of some service to you to know it."

SLUG SHOT KILLS SOW BUGS Sold by Seedsmen.

Hammond's Paint & Slug Shot Works, Fishkill-on-Hudson, N. Y.

New Orleans.

The Horticultural Society held its semi-annual meeting January 21, and aside from interesting talks on plants and flowers, the business of the evening was taken up with considering the results of the November flower show and laying plans for another exhibition in the spring of 1910.

The reports of Secretary C. R. Panter and Treasurer John Eblen were read, and it was shown that a loss of $326 had been sustained on the flower show. The original loss was about $600, but the members who won prizes donated the amounts to the association, bringing the loss down considerably.

A letter was read from Prof. Wilmon Newall, of the State crop pest commission, warning the horticulturist to look out for the fish-tailed moth, a destructive immigrant from France. The moth, the professor wrote, had been found on plants and flowers imported from France to New York.

Richard Eichling, manager for U. J. Virgin, read an interesting paper, entitled "The Forcing and Growing of Bulbous Stock for Cut Flowers in the Southern States."

J. A. Newsham exhibited some very beautiful Oncidium splendidum. Mr. Newsham gathered the plants himself while in Central America some months ago.

Snapdragons and Their Culture.

Among the many beautiful hardy plants that can be flowered the same year as the seed is sown, it is doubtful whether any are capable of giving such good and lasting displays as the snapdragons, a popular name applied generally to the many varieties of antirrhinum. Strictly speaking, says The Garden, these plants are perennials; but as they may be so easily raised from seed, most cultivators do not trouble to retain old plants through the winter unless extra large specimens are required, the modern practice being to treat them as annuals.

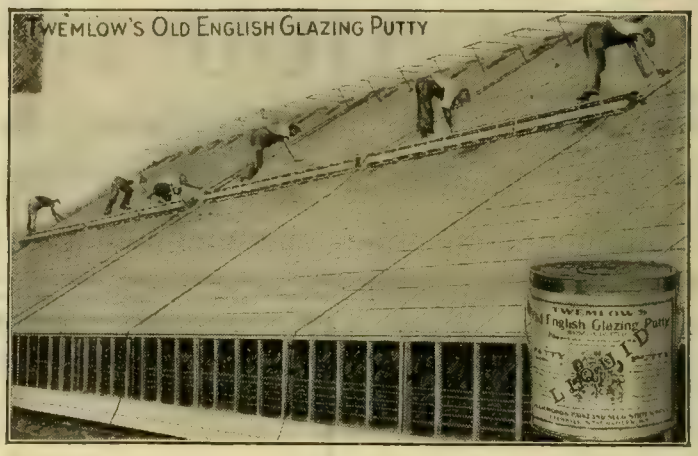
To obtain plants to flower the same year, seeds must be sown under glass during January or the early part of February, employing well-drained shallow pans or boxes as receptacles. A good soil mixture for sowing the seeds in is composed of loam (one part), sharp sand (one part) and leaf-soil or well-decayed manure (one part), the whole being passed through a small-meshed sieve, so as to render it fine and suitable for receiving the rather small seeds. Some of the rougher portion must be retained for placing over the drainage material in the bottom of the pans or boxes, as this will prevent the finer particles being washed down into the drainage, which, if allowed, would prevent a free escape of superfluous moisture.

When the rough and fine soil has been placed in position and made moderately firm it should be within half an inch of the rims of the receptacles, and the surface must be made quite level, when it will be ready for the seeds. As mentioned above, these are rather small, hence care will be needed to scatter them evenly and thinly over the soil. A light sprinkling of very fine sandy soil is all the covering needed, and this may be pressed down gently with the bottom of a clean pot. Water well with a very fine-rosed can, cover with a sheet of brown paper or a pane of glass and then stand the pans or boxes in a warm greenhouse or frame where the temperature ranges from 50° to 60°.

Should the soil subsequently show signs of drying, it must be gently sprinkled with a fine spray from can or syringe, taking care not to disturb the seeds. When germination has been effected, the brown paper or glass must be promptly removed and the pans or boxes placed near the glass, otherwise the seedlings will quickly become drawn and spoiled. As soon as the young plants are large enough to handle, pricking off must be resorted to, and boxes about 4 inches deep are the best for this purpose. Good drainage is essential, and the soil mixture advised for seed-sowing will answer very well, but it may with advantage be used in a rougher state. Three inches apart each way is none too much for the seedlings, and it is imperative that the soil be made firm around the roots of each as the work proceeds, a firm (not hard) rooting medium inducing that sturdy growth which is so desirable.

Keep the young plants in a rather close house or frame until they have taken well to the new soil, when a hardening off process must be commenced, affording more air gradually and keeping the plants as close to the glass as possible. If properly hardened off the plants may be set out in their permanent quarters by the middle of May, soil of a rather poor nature tending to free-flowering and good colors better than that of a very rich character. Old mortar or lime added to the soil will be much appreciated. If the tall and intermediate varieties are planted one foot apart each way and the Tom Thumb sorts nine inches, they will quickly fill up and form a beautiful mass of color in the late summer and autumn months. For bedding purposes these plants are splendid, especially the intermediate and Tom Thumb types, the tall varieties being excellent for mixed borders and also for cutting.

THE BEST ARTICLE OF ITS KIND IN THE WORLD.



It stops leaks, keeps out the wind, is good to bed the glass in, and holds glass tight.
THIS IS ALL PROVED BY YEARS OF TEST.
"HAMMOND'S GREENHOUSE WHITE," a paint for the service.
Sold by many Supply Houses. Made only by
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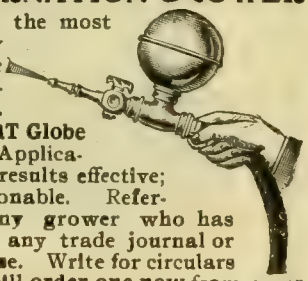

To raise the most thrifty plants use Salt, Potash or Soda in the U-N-IT Globe Sprayer. Application easy; results effective; price reasonable. References: Any grower who has used it or any trade journal or supply house. Write for circulars or better still order one now from your dealer or sent prepaid on receipt of $3.50.
Address Dept. A.
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Phone: Main 4827.
BUILDING AND PROPAGATING SANDS.
Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,
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HAMMOND'S SLUG SHOT WORKS
FISHKILL-ON-HUDSON, N. Y.

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The Crestline "Sunshine" has solid brass cylinders. Can be used as all-'round pump. Free circular. Ask for information on any pumping problem.
We make pumps for all uses.
Crestline Manufacturing Co.
Pumps, Sinks, Hose. Crestline, Ohio

Florists' Refrigerators
Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.
McCRAY REFRIGERATOR CO.
960 Mill Street, KENDALLVILLE, IND.

The many beautiful colors now obtainable in these plants should insure their being more freely grown.

Maurandia Barclaiana Atro-coerulea.

In this plant the flowers are much larger than in older and well known varieties. The color is of a deep beautiful blue and flowers during the whole season. It is altogether much superior to any other variety known. If sown in March, in frames, and put out in the ground in May it will flower until late in the autumn even in a half shady place.—Revue Horticole.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Washington.

Capt. Shaffer's team defeated the Carrolls, January 15, at the Rathskellar alleys, scores as follows:

FLORISTS:			
Cooke	157	161	177
Shaffer	175	191	175
Hanmer	170	212	179
Caldwell	168	170	202
McLennon	155	165	151
Total	825	899	884
CARROLLS:			
McCarthy	160	194	160
McCarty	170	177	180
Harlow	181	162	158
Walsh	154	244	195
Cox	146	202	171
Total	811	979	864

The Florists succeeded in taking one game from the Potomacs, January 22; the following are the scores:

FLORISTS.			
Shaffer	101	195	177
Hanmer	180	213	167
Goodman	171	165	156
Caldwell	171	178	141
McLennon	183	142	168
Total	866	892	809
POTOMACS.			
Barber	205	159	178
Walker	167	170	151
Jacobson	156	168	214
Bunn	204	161	182
Bontz	165	171	175
Total	897	829	906

G. S.

At Louisville.

The Florists' bowling club met January 18 with a very good attendance and a very good time prevailed. Capt. Brand's team defeated Capt. Walker's two out of three. Geo. Stark was high with 182 and Karl Rabe was low with 92. Following are the scores:

Wm. G. Walker	144	135	122
James Doerr	137	152	145
Geo. E. Schulz	107	136	160
Geo. Stark	111	182	94
Jacob Schulz	101	137	127
	100	100	100
Total	700	842	748
Andy Brand	124	170	119
Fred L. Schulz	138	127	156
Louis Kirch	152	120	101
Jos. Wettle	156	132	121
Karl Rabe	104	92	137
Robt. Miller	117	135	131
Total	791	776	765

The Florists' bowling club had a very good time January 25, Captain Brand's team defeating Capt. Stark's three straights. Fred L. Schulz was high with 209 and Karl Rabe was low with 75. Following are the scores:

	1st.	2nd.	3rd.
Geo. Stark	152	125	91
Wm. G. Walker	112	195	168
Geo. E. Schulz	117	118	118
Jos. Wettle	121	121	124
Jacob Schulz	113	125	112
Karl Rabe	130	75	79
Total	745	759	692
Andy Brand	170	137	120
James Doerr	162	138	170
Fred L. Schulz	131	168	209
Louis Kirch	118	125	120
Robt. Miller	108	86	118
	110	110	110
Total	799	764	847

F. L. S.

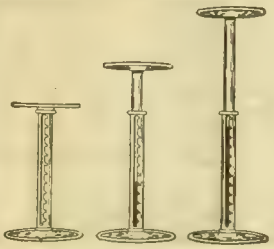
Stung.

Tourist: Looks like pretty good soil around here. What crops do the farmers grow in this section?

Native: That all depends, stranger.

Tourist: Depends on what?

Native: On what sort uv seed they puts in.



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All Heights, from 6 to 48 inches.

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Write or wire us if unable to obtain the stands locally.

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TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

At St. Louis.

January 24 was ladies' night when the following scores were rolled:

	1st.	2nd.	3rd.	4th.	Total.
J. C. Young	116	108	154	149	527
W. C. Young, Jr.	111	112	159	179	561
J. Fullergraf	129	110	112	146	497
J. Connon	119	99	140	168	526
J. Koenig	112	109	149	133	503

	1st.	2nd.	3rd.	4th.	Total.
L. A. Giger	142	135	165	205	647
W. C. Young, Sr.	133	154	134	107	528
F. H. Weber	152	135	140	...	427
C. Connon	98	100	...	...	198
W. C. Smith	71	108	108	102	389

High single score—205. High total—647.

W. F.

Flora and Fauna.

Blue roses are a common thing,
And cherries to the same stems cling
With peaches fat.
Strange vegetation you'll agree,
Is the observer apt to see
Upon a hat.

I've seen a squirrel with a beak
Aligned beside a furry freak
Alike a bat.
You'll notice fauna rare and queer
Hobnobbing with the other gear
Upon a hat.

—Washington Herald.

SHELBYVILLE, IND.—Chas. Haymond will erect a greenhouse at the Green-Wilson place.

THE BEST Bug Killer and Bloom Saver

For **PROOF** Write to

P. R. PALETHORPE COMPANY,

OWENSBORO, KY.

Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,

FLUSHING, N. Y.

Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

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"Natural Guano" PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

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THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

San Francisco.

TRADE QUIET.

Business has been quiet, partly owing to the weather, which has been unusually wet ever since New Year's eve, raining almost every day. Flowers which were quite scarce and high priced during the holidays have come down very much, as there are more than enough to go around. Violets and carnations, especially, are quite plentiful; the latter are not of good quality as owing to the continued dark weather, they do not keep well after being cut. The same can be said of roses. Lily of the valley, Roman hyacinths and freesias are also coming in in quantity and can be bought at very low prices. Tulips and Trumpet Major narcissus are still quite scarce, but a few more days of warm weather will soon bring plenty into the market, the earliest outside grown ones coming from Santa Cruz. There are still quite a few chrysanthemums in the market mostly late white varieties, which come in handy for funeral work and in consequence are eagerly bought up.

NOTES.

The Pacific Coast Horticultural Society at its last annual election elected the following officers:

H. Plath, president.
Wm. Kettlewell, vice president.
T. Taylor, recording secretary.
J. Grimshaw, financial secretary.
G. Theuergarten, librarian.
J. W. Bagge, trustee.

H. Plath gave an interesting talk about his recent trip in Europe and what he saw there of interest to the trade. At the next meeting he will give a report on the National Flower Show at Chicago. The society has been initiating quite a few new members lately and is in a flourishing condition.

Two very nice stores have recently been opened on Powell street between Ellis and O'Farrell, one by T. Mosco, late of Chicago, and the other by the Hackel Floral Co. Another store will soon be opened by John R. Sievers & Co. in the same neighborhood, at the corner of Powell and O'Farrell streets. This will be one of the finest stores in the west; the rent is said to be $600 monthly. Being a corner store Mr. Sievers will have much opportunity to display his tasteful and original window decorations. The trade wishes him much success in his new venture.

Wm. Forrest has recently sold out his store at 2583 Mission street to the Twenty-second street florist who is running this store now in connection with his store on Twenty-second street. He has had a new front put in this store, improving it very much in appearance.

J. J. Karins, representing Henry A. Dreer, Philadelphia, Pa., has just arrived in town, reporting very good business in Washington and Oregon.

The Francis Floral Co. in the California Market reports quite a brisk trade, although only in business a few months.

P.

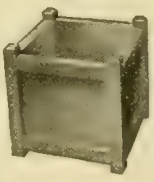
CARTHAGE, MO.—Stephen Hyde, Jr., East Thirteenth street, has begun the erection of four large modern greenhouses 30x600 feet in connection with his present plant. The new additions will be strictly up-to-date in every detail and will be devoted exclusively to the growth of carnations. New boilers are to be installed and when the work is finished Mr. Hyde will have a very complete and up-to-date establishment.

THE KELLER POTTERY COMPANY
Manufacturers of Florists' Red Standard Pots,
AZALEA POTS, BULB AND FERN PANS, ETC.
Write for Price List. 213-15-17-19-21-23 Pearl St., NORRISTOWN, PA

Standard Flower Pots!
Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in.,	in crate, $4.88	144 6-in.,	in crate, $3.16
1500 2¼	" 5.25	120 7	" 4.20
1500 2½	" 6.00	60 8	" 3.00
1000 3	" 5.00	HAND MADE	
800 3½	" 5.80	48 9-in.,	in crate, $3.60
500 4	" 4.50	48 10	" 4.80
456 4½	" 5.24	24 11	" 3.60
320 5	" 4.51	24 12	" 4.80
210 5½	" 3.78	12 14	" 4.80
		6 16	" 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

MISSION PLANT BOXES.

Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.
WAGNER PARK CONSERVATORIES, Sidney, Ohio.

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Manufacturers of
Red Pots
Before buying write for prices.
361-363 Herndon St., CHICAGO, ILL.

H. BAYERSDORFER & CO.,
Florists' Supplies.
1129 Arch Street, PHILADELPHIA, PA
Send for our new catalogue.

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For Nurserymen.
One season's trial is convincing proof of their superiority.
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OF FINELY PREPARED CLAY.
Process and catalogue sent on request.
The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

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Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
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GREENHOUSE GLASS
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SADDLE RIVER, N. J.

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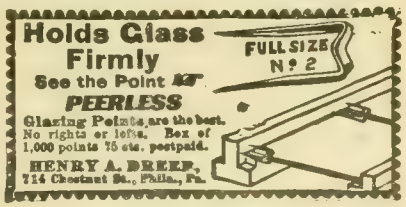

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Never Rust GLAZING POINTS
Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞. 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

STENZEL-GLASS CO.
2 Hudson St., NEW YORK.
Specialists in
GREENHOUSE GLASS
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE.

ALBUQUERQUE, N. M.—J. Woodward has commenced the erection of a large greenhouse on his place just north of Old Town.

The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

DETROIT, MICH.—The American Blower Co., of this city, which manufactures the Detroit steam trap now used in many greenhouse establishments where steam is employed, has consolidated with the Sirocco Engineering Co. of New York. Headquarters will be continued in Detroit.

W. C. POLK, Fort Branch, Ind., has patented an apparatus for building concrete structures providing for means of supporting the forms independently of the concrete, whereby the green concrete will not be strained or broken either by the weight of the forms or their removal; also for releasing and resetting the forms at different elevations saving much time and labor, and to hold them plumb and level after being once set.

THE Association of American Portland Cement Manufacturers has issued a bulletin on "Mixing and Placing Concrete" by Percy H. Wilson and Clifford W. Gaylord that is well worth perusal by anyone having work of this kind in hand or in prospect. Very full yet concise details are given as to preparing concrete and the best materials to use while the illustrations are so clear and apt that they almost tell the story of the processes without the text. We shall have occasion to further refer to this excellent little booklet.

The "A B C" Self Oiling Engine.

This is claimed by florists and market gardeners who have used it to be one of the most dependable, small, high-speed engines extant. It is made in various sizes and styles by the American Blower Co., Detroit, Mich., and its unique features are well described in a catalogue sent out by this firm. The "A B C" engine is remarkable in that it needs oiling only once in three months—once in a year one user claims; the working parts are all enclosed making it very safe as well as dust proof, and it may be coupled direct, without belting, to centrifugal pumps, electric generators or any class of machine for which a high speed and regularity of running is essential. Being enclosed they can be run in very dirty or dusty places, such as boiler rooms, without injury, and for this reason are very handy for driving mechanical stokers, chain grates, ash or coal conveyers or hoists of any description. There are no oil cups or splash lubricators yet it is guaranteed by the makers to run perfectly for three months without refilling the oil reservoir while many customers claim that for periods of from six to nine months they have never even removed the side panels for adjustment. The economy of such an engine must be apparent even to those of little mechanical skill or knowledge.

Greenhouse Building.

Kansas City, Mo.—Wm. L. Rock Flower Co., seven houses 27x260 feet for roses.

Topeka, Kans.—C. E. Hubbard, one greenhouse at 316 Polk street.

Cromwell, Conn.—A. N. Pierson, one house for grafted roses.

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"Detroit" Return Trap. (Patented)

Will keep any Steam heating system free from water, making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—hot—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass.
IT WILL PAY YOU.

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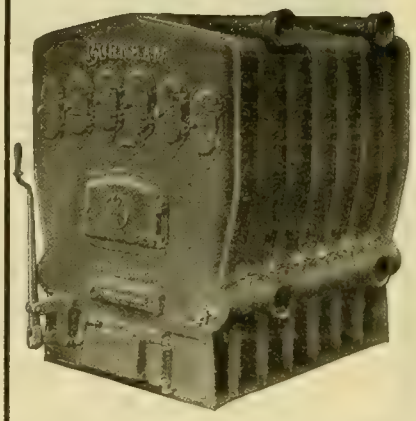

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No Night Fireman Required with our
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30 DAYS FREE TRIAL
will convince you that the
Morehead Return Steam Trap
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Patent Pipe Clamp
Cheap as the cheapest joint in use, and 100 per cent. superior. For particulars write the inventor and patentee.
HENRY STUTTLE, Batavia, Ill.

STEEL Return Tubular BOILERS
The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.
JOHNSTON HEATING CO.,
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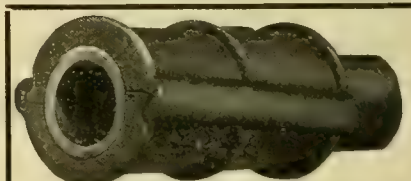

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Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by
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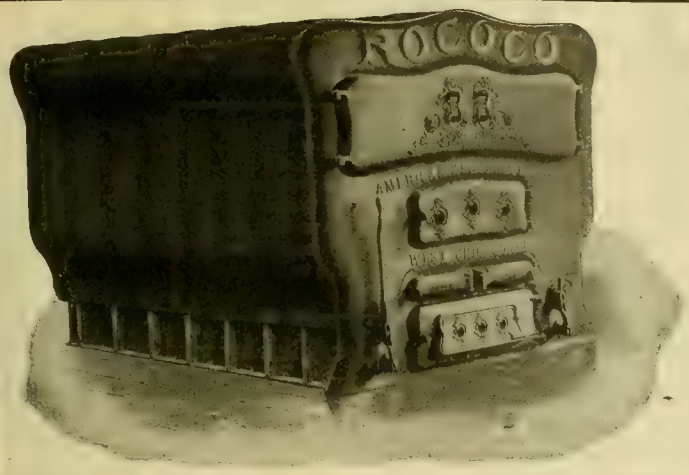

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A boiler built for practical florists.
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West Chicago, Illinois.

Louisville.

BUSINESS GOOD.

Business conditions the past week were the best experienced for some time. Roses had a very good demand and a good many more could have been used. The quality was fair. Carnations had a very good demand and were of fair quality. Quite a number of those shipped in arrived in a condition rendering them unfit for use, naturally causing quite a number of disappointments. It would pay the growers who pack their flowers so tight to use a little ice. They would then receive good reports and would not be thinking they are shipping to a poor market. Violets and lily of the valley sell well and bring fair prices. There will soon be plenty of bulbous stock. At present it is selling well and bringing fair prices, the quality being satisfactory. Green goods are in fair supply and sell rapidly.

NOTES.

The regular monthly meeting of the Kentucky Society of Florists will be held February 2 at Fred L. Schulz's store, 206 Sixth street, at 8 p. m. A rose and carnation exhibition will be held in conjunction with this meeting. Anyone having any novelties of any kind will favor us by sending a sample. Secretary Kleinstarink reported that the outlook for a good exhibition is bright, and it is hoped the members who want some benefit out of the society will attend, and pass their opinions on such exhibitions. It will harm no one and do everyone some good.

Louis Kirch is cutting some of the best carnations around here. His plants are in very good condition despite the fact that he is out late Monday nights trying to bowl 300.

Nanz & Neuner have been exhibiting a large quantity of good carnations in their window.

Jacob Schulz had a pretty table decoration in his window last week.

Henry Fuchs has a nice lot of bulbous stock. F. L. S.

WASHINGTON, D. C.—Martin Griffin, for nearly 50 years florist at the treasury department, died January 9. Mr. Griffin was born in Ireland, and was one of the oldest residents, having resided in this city for 55 years. For many years his work on the treasury grounds had been the subject of praise, not only from citizens but visitors and sighteers as well. About two years ago the wife of Mr. Griffin was burned to death. The aged man, in an attempt to rescue her from the flames, was badly burned. Despite the injury, Mr. Griffin had taken such a keen interest in his work that he continued as florist as long as his strength permitted him. A year ago, however, he was forced to retire because of the injuries.

Prepare for Cold Weather

HEATING PLANTS AND SUPPLIES
at Wrecking Prices

If you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at forced sale

100,000,000 ft. of Brand New Lumber and Timbers,

which we offer at prices lower than your local dealer can supply the same grade.

ESTIMATES FURNISHED FREE. Our Greenhouse Engineer will furnish you with an estimate on anything you may require in the Boiler, Heating Material or Building line.

GREENHOUSE BOILERS A complete line of Locomotive Fire-box Boilers, Kroeschell Greenhouse Boilers, Return Tubular Boilers, Cast Iron Sectional Boilers etc. Some are rebuilt, some brand new, but all are in first-class condition for further service.

BOILER FLUES Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

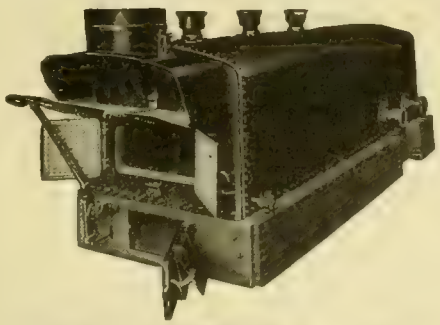
BOILER TUBES 20 carloads of 4-in. Boiler Tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

IRON PIPE 100,000 ft. of Standard Pipe, in good condition. We cut and thread to order. Any length or size you want. Ask for Pipe List and save money.

HARDWARE Building and light hardware of all kinds, Wire and Wire Fencing, Bolts, Hatchets, Hammers, Axes, etc. Everything needed in the greenhouse supply line at bargain prices.

Ask for Our Latest 500-page Catalog No. 47. It is the greatest book of bargains ever issued. You save 30 to 50 per cent by dealing with us. Our Furniture Catalog No. F47 is now ready for distribution. Write for it to-day.

Chicago House Wrecking Co. 35th and Iron Sts, CHICAGO.



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The strongest and lightest package for sending Roses and other plants by mail. Cost less and afford better protection. Samples and prices sent on request.

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NEWARK, O.—Kent Bros. opened a new store at 20 West Church street January 16, with Miss Lorena Kent in charge.

Ornamental and Honey Comb Rock

For Water Fountains, Flower Rockeries and Fish Ponds, sold at reasonable prices. Prompt attention paid to all orders.

JOE H. HARDIN, Venice, Ohio

Louisiana Red Cypress

As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress, we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

Desplaines, Ill.

Frank Garland, with 65,000 square feet of glass, grows a general line, including roses, carnations, sweet peas and bulbous flowers. The chief pride of the proprietor here is the sectional cement bench of his own construction which he is gradually putting in all his houses. Frank Garland is a heavy grower of bulbous stock, the late Edgar Sanders having dubbed this place "Little Holland" on one occasion after seeing the extensive line grown. There are 60,000 tulips, including Coleur Cardinal, Keizerskroon, La Reine and Yellow Prince, 15,000 daffodils and 40,000 Paper White narcissus. Lilies are also grown, including 2,000 giganteum, 2,000 longiflorum and 1,000 Formosum. In the rose section Rhea Reid cuttings are already in sand and My Maryland will be soon added.

H. C. Blewitt has devoted his entire place, 15,000 square feet, to sweet peas, with which he is having excellent success. For early varieties he has Christmas Pink, Mrs. Wallace, Navy Blue and Earliest of All. For midseason, King Edward VII, Emily Henderson and Countess of Radnor are grown. Emily Henderson is a very good summer white as it stands the heat well. For late there are Blanche Ferry and several of the Spencer varieties. Attention, says Mr. Blewitt, is the entire secret of success in sweet pea culture. The thermometer should not go above 50° at night, though 65° during the day is permissible. Mr. Blewitt has the distinction of having cut the first carnations grown in this greenhouse center, this having occurred while he was foreman for Garland Bros. in 1889.

The range of the Desplaines Floral Co., Harry Blewitt and John Prickett, proprietors, with 32,000 square feet of glass, is in excellent cultural condition. Besides the standard carnations this firm is growing Defiance and Winona. Several seedling carnations, originating here, give good promise of success, notably a cross between Rose Pink Enchantress and White Perfection. They are fine, large flowers, with well-filled centers, and no splits as yet. The color is a little lighter than that of Rose Pink Enchantress.

Sol. Garland has his 45,000 square feet of glass in the pink of condition. The standard carnations are grown and the best of the new varieties are tried out. Mrs. Patten is considered an especially good bloomer from January 1 to July 1 and is producing fine flowers now. O. P. Bassett, Lucille, Winona and Afterglow are among the new varieties to be benched this season. Two 30x200-foot houses are to be built this spring, replacing two which still have the sash of houses erected by the late Sol. Garland, Sr., at Winnetka, 45 years ago. These sash, it is interesting to note, were made by the late Frank Moninger, father of the late John C. Moninger of the John C. Moninger Co., Chicago.

W. S. Garland, with 50,000 square feet of glass, confines his attention largely to carnations. Enchantress and Mrs. Patten have been particularly fine this season, the latter being much admired for its stiff stem and excellent form. In the fall some 20,000 chrysanthemums are grown, followed by sweet peas in the same benches.

Chas. Wiffin has about 20,000 square feet of glass; grows carnations, sweet peas, pansies, stocks and Asparagus Sprengeri. The carnations, which were backward on account of late planting, are now thrifty plants in excellent crop. The pansies are just starting up and stocks for the first time are a considerable feature.

Chas. Arnold, successor to Peters & Arnold, with about 15,000 square feet of glass, has planted his houses to sweet peas, feverfew, stocks, Paper White narcissus, candy tuft and carnations.

PORTLAND, ORE.—The greenhouse of Milton W. Smith, at 826 Hood street, was destroyed by fire with a loss of $100 January 10.

LUMBER

for Greenhouse Benches, Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in special position to furnish "PECKY" CYPRESS; everything in PINE and HEMLOCK BUILDING LUMBER. WRITE FOR PRICES.

Adam Schillo Lumber Co. Cor. Weed and Hawthorn Sts., **CHICAGO.** Tel. Lincoln 410 and 411.

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VENTILATING MACHINERY

The original machine with self-oiling cups. The most powerful, least complicated, very compact, with ease of operation.

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Over six miles in use and highly recommended by all. The only **Drip Proof** gutter on the market.

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It has no equals for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, Ohio.

The "T" Bar Curved Eave Greenhouse

Is absolutely Dripless, glass rests on Wood, reducing breakage and condensation, less wood than any other construction, wood all exposed—all steel inside, all wood outside.

Greenhouses of Every Type.

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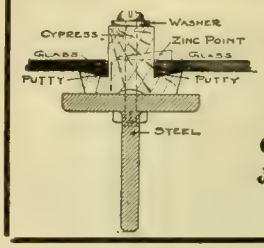

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We manufacture all our **Metal Designs, Baskets, Wire Work & Novelties**

and are dealers in **Glassware, pottery, Decorative Greens and all Florists' Requisites.**

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, FEBRUARY 6, 1909.** **No. 1079**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.: W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August, 1909

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N.Y., March 17, 1909. AUG. POEHLMANN, Chicago, president; BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., president; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa. Secretary.

ALBERT M. HERR, President elect; A. F. J. BAUR, Secretary-elect

Old Year Leaves.

Tossed by the storms of Autumn, chill and drear,
The leaves fall auburn-tinted, and the trees
Stand reft and bare, yet on the silent leas
The leaves lie drifted still—while cold, austere,
Stern Winter waits—while early snowdrops cheer
The woodland shadows—while the happy bees
Are wakened by the balmy western breeze,
And birds and boughs proclaim that spring is near.

So lost hopes severed by the stress of life
Lie all unburied yet before our eyes
Though none but we regard their mute decay;
And ever amid this stir and moil and strife
Fresh aims and growing purposes arise
Above the faded hopes of yesterday.
—Daily Mirror.

American Carnation Society.

Indianapolis Convention Report Continued from Issue of January 30.

What the Experiment Stations Are Doing for the Carnation Grower.

BY H. B. DORNER.

During the past 15 years the continually increasing demand for carnations has necessarily led to an increase in the greenhouse space devoted to the cultivation of this plant. With this increase many new and perplexing problems have been forced upon us. There is hardly a plant that has more diseases and insect pests affecting it. In those states where many carnations are grown the experiment stations have attempted, from time to time, to solve some of these problems. The results of these studies have been published in bulletins and reports of the stations.

EXPERIMENTS ON COMMERCIAL SCALE.

Most of the work in the past has been done on a small scale with just a few plants, and the results, to a certain degree, are rather indefinite. Today it is realized, that to have results comparable with commercial work, one must carry on these experiments on a commercial scale. Many of the stations are now building or have built greenhouses which are devoted entirely to special floricultural crops.

In looking over the work done by the various stations one finds that the problems of 10 or 15 years ago are not altogether the problems of today. Some of the earliest work on the carnation was on rust and its prevention and destruction. At that time the carnations were not rust-resistant and were easily affected. Since those days the varieties sent out each year have been more resistant each year until today the rust is not the enemy that it formerly was. No chemical has been found as yet that will eradicate it and its disappearance is due to a change in the constitution of the host. Its worst days are over. Stem rot has been discussed time and time again but no effective method has been devised for its destruction. Its disappearance will also follow on the breeding of resistant varieties.

LIVE QUESTIONS.

The questions of today then seem to be along the line of carnation breeding, methods for the prevention and destruction of insect enemies and problems of nutrition or, in other words, the proper use of fertilizers. In order to secure the necessary data for this paper, the writer sent a letter to the director of each agricultural experiment station in the United States, requesting such information as could be given regarding results that have been published and also the work which is being carried on at the present time. No attempt will be made to discuss the work of the stations in detail, but to give a brief resumé of what has been done and what they are doing at present.

The requirements of the carnation naturally prohibit its being grown in certain parts of the country and many stations carry on no work along this line. This includes most of the states south of the Mason and Dixon line and also many of the western states. Replies have been received to most of these but the report is naturally incomplete as some have failed to answer. In addition to this information data was secured from an examination of the literature published.

MOST WORK IN CARNATION CENTERS.

It will be found that most work has been done by the stations of those states which may be called carnation centers. The troubles of the carnation growers were important enough to occupy a part of their time. Among the stations from which replies have been received are a number where no work has been done. This is not due to a lack of interest but because very few, if any, carnations are grown in the state and so time and funds have been expended on other crops. Among these are the following southern and western states: New Mexico, California, Louisiana, West Virginia, Alabama, Utah, Montana, Wyoming, Kentucky.—Maine, Minnesota and North Dakota also have done nothing along this line.

WORK IN VARIOUS STATES.

Florida has attempted to grow carnations but found that northern varieties all failed in the south. The variety Augusta was sent out from there as the

only variety suitable for the state. South Carolina grows a few carnations but has carried on no experiments as there are few floral establishments in the state. In North Carolina the work has been recent and some time has been devoted to root-knot of carnations. Virginia has done nothing but expects to take up work in floriculture in the near future.

Pennsylvania has also done nothing but expects to take up some carnation work as soon as new houses are finished. Ohio has done a little on sub-irrigation and crossing but has published nothing. Michigan has done nothing, due to lack of equipment. Wisconsin has no facilities at present but floricultural work will begin as soon as new houses are completed. Iowa grows a few plants for class work but has given them no attention as a crop. Kansas has done some work on control of rust but has published nothing. Missouri has confined her work entirely to practical methods of preventing rust and suggests use of dry Bordeaux mixture. In Oregon a little work has been done but no data published. In Washington only a few carnations are grown for class work. Commercially few carnations are planted, time and space being devoted to roses.

EQUIPMENT AND FUNDS WANTED.

Thus far the report shows that there are some stations in carnation growing sections at which floricultural work would be carried on if they had the proper equipment and funds. Several of these have greenhouses under construction and will take up this line of work in the near future. There are, however, a number of stations at which much work has been done with the carnation and where still more is being done.

In Massachusetts some work has been done at both stations. At the Hatch station two bulletins have been published: No. 10 deals with fertilizers for carnations and No. 80 gives directions for spraying. The seventeenth report gives some notes on soil sterilization and the fourteenth some notes on stem rot. In the reports of the state station are found notes on stem rot and analyses of carnations.

In Bulletin 128 the Rhode Island station gives the results of soil treatment in culture of carnations. At present a 50-foot house is devoted to experiments on the effect of various kinds of physical and chemical soil treatment upon carnation growth. This is now only in its second season and nothing has been published as yet.

Connecticut has issued various notes on results of experiments with carnation

H. B. Dorner, Urbana, Ill.

diseases, effect of lime on development and the use of commercial fertilizers. These have been published in the station reports of 1896, 1897, 1899, 1900 and 1906.

WORK IN NEW YORK.

At the Cornell station the carnation has been used in various experiments as to crossing, influence of electric and acetylene light, influence of fertilizers on vegetative parts and on vigor, quantity and viability of pollen. Records have been made of work but not printed as yet.

At the state station at Geneva some very comprehensive work has been done. The latest bulletin published (Technical Bulletin No 7) contains the results of a very careful study of the bud rot, its causes and control. In addition to this publication the following bulletins have also been issued: No. 100 on methods of "Combating Carnation Rust"; No. 138 "Effects of Common Salt on the Growth of Carnations and Carnation Rust"; No. 164 on "Leaf Spot"; No. 175 "A Parasite upon Carnation Rust"; No. 186 contains notes on stem rot.

WORK IN NEW HAMPSHIRE.

At the New Hampshire station the following problems are now under consideration; the state has devoted to this work at present time 2,500 square feet of glass:

1. A test of the value of farm manures judiciously used in the compost heap, as a means of improving the growth of plants, size and other points of excellence in the flower.
2. A test of the value of commercial fertilizers applied as a top dressing to carnation benches.
3. How to account for the earliness and free flowering of carnations, the theory being worked out in seedlings.
4. Pot culture of carnations during summer months in cold frames compared to field culture.
5. House culture of carnations compared to outside culture.
6. Suitable soil for winter culture of carnations.
7. Inheritance of color in carnations.

WORK IN VERMONT.

In Vermont, Wm. Stuart has done some interesting work in crossing carnations, the results of which appear in the twentieth annual report of the station. The work consists of a study of seasonal influence in crossing relative to seed production in which Mr. Stuart arrives at the conclusion that early crosses are most successful giving a higher percentage of successes, a larger number of seeds and a higher percentage of germination. Some attention has also been given to Mendelian inheritance in the carnation with respect to the unit characters of single and double. He finds that the law holds good in the case of the carnation.

In New Jersey investigations have recently been taken up. At the present time a study is being made of the physical condition of the red shale soil

PARTIAL VIEW OF THE EXHIBITS AT THE CARNATION SOCIETY'S EXHIBITION AT INDIANAPOLIS, JANUARY 27-28.

GROUP OF VISITORS AT THE INDIANAPOLIS CONVENTION, JANUARY 27-28.

using various proportions of sand and organic matter. Some interesting notes as to the productivity, color and size of prosperity in these tests are given in the AMERICAN FLORIST, p. 1244, issue of January 16.

In Bulletin 127 the Maryland station has some very interesting notes on the effects of fertilizer on stiffness of stem, effect of varying amounts of nitrogen, the earliness, different time of setting carnations, continuous cropping without changing soil and bursting of carnations due to location on bench. (Also noted in the AMERICAN FLORIST.—ED.) At the present time investigations are being carried on to determine effect of cutting selection on vigor of plant and development of color types from seed. A house 20x50 feet is being devoted to this work.

In Indiana the results of the most important work were given in bulletin 59 on "Bacteriosis of Carnations." This disease was considered to be due to bacteria but is now known to be caused by punctures of insects and is called stigmonose. A number of articles also appeared in trade journals at various times. No work is now being done due to lack of greenhouses.

WORK IN ILLINOIS.

At Illinois the past year was devoted to the repression of thrips on carnations and during the season from October, 1907, to June 15, 1908, over 68,000 buds were examined. Most of the work was done with tobacco compounds. The full results of the work have not been published yet.

During the present year two houses 25x105 feet are being devoted to an experiment with carnations testing the value of chemical fertilizers as supplementing stable manures. This experiment comprises 30 combinations of fertilizers which are repeated with four different varieties in order to check results—3,200 plants are used in the experiment. The fertilizers used are dried blood, sodium nitrate, ammonium sulphate for nitrogen, acid phosphate, ground rock and bone meal for phosphorous, potassium sulphate, wood ashes and kainit for potassium and lime. Several years will be required to complete the work.

The only work done by Nebraska is on the bud rot of the carnation and its accompanying mite. The results of this work were published as bulletin No. 103. Ten stations have not been heard from, and as most of them are in regions unfavorable to carnation growing, have probably done no work along this line. A study of the report will show that the real work in floriculture at the stations is in its infancy and that the work along the line of carnations is just beginning. The time is not far distant when each station will be devoting a certain amount of time to it.

W. W. Coles on the Convention.

The eighteenth annual meeting of the American Carnation Society has come and gone, and was, no doubt, the most successful of any to date. The stock, both standard and new varieties, was of a higher grade than heretofore and kept remarkably well during the two days of the exhibition. In fact, some of the vases were even better the last day than when staged. A great number of new seedlings were shown and many looked quite promising to the average carnation grower. I made notes of a few of the many good looking seedlings as they ap-

peared on the show table, and no doubt have missed quite a number that may be future standard sorts, although it is difficult to judge the merits of any variety unless it is seen growing.

One of the most attractive looking new comers was a beautiful bright dark pink shown by Nic Zweifel of Milwaukee, Wis., and Dorner's two new reds had the appearance of striking a new high mark for red varieties. Shasta by Baur & Smith was commented on very favorably by the growers in general, also a promising good looking white, No. 404, from Dailledouze Bros. These two whites seemed to be talked of as prospective good ones. Dorothy Gordon by Joseph Heacock at first sight would be taken for well grown Rose Pink Enchantress. Bertermann Bros. Co. had the field to themselves in the yellow class. Their new seedling, named James Whitcomb Riley, is a recent departure for this class. I was so impressed with this grand sort that I took the car to Cumberland to see it growing, and was much pleased with its growth, good stem and free blooming qualities. It was the most distinct carnation shown. In the maroon class, F. R. Pierson's No. 60 looked quite promising. Admiration is a pleasing pink which Chas. Knopf considers his best production. President Taft was too weak to stand up and was a disappointment. The most popular varieties exhibited were White Enchantress, Light Pink Enchantress and Rose Pink Enchantress, in the white and pink varieties. In the red classes Beacon and Victory were most prominent and O. P. Bassett, as usual, showed up in good form. The new variegated variety, Bay State, on the Patten order, won the gold medal. Mrs. J. O. Vaughan was shown by W. N. Rudd in good form. The vases of White Killarney rose shown by F. R. Pierson Co. and the Waban Rose Conservatories were truly magnificent. We shall all want to grow this peerless variety next year. I do not believe there was a single grower who was not well repaid for the visit to this grand exhibition.

Carnations I Have Known and Their Elevating Influence.

BY MISS SARAH A. HILL.

Mr. Toastmaster and Dear Friends:

I have taken my pen in hand to write you a few lines because I can express what I have in mind much better than in attempting an after-dinner speech, for unlike the majority of my sex, I happen not to be eloquent of tongue. I recognize many faces present as those of old and tried friends, but if I could for a moment see your signatures I should know many more of you intimately, for the written name at once brings up a picture of your letters, and I can say without boasting that few women, the country over, have as many delightful gentlemen correspondents as "Yours Truly."

EARLY VARIETIES.

Now that the machine has taken the place of the steel pen I am seldom at a loss to arrive at the meaning of my correspondents, but there have been times in the past when I hardly knew whether I was deciphering an ardent declaration of admiration, or only a very warm cancellation of an order for a belated lot of the reigning novelty in carnations. It is never safe for an unmarried woman to let her memory reach too far back into the past, but I can remember when old La Purite was our mainstay; I remember when Mlle. Carle threw up its first snow white flower and we held our breath over its purity of color and its clear cut form, but even the most daring catalogue liar could not claim freedom of bloom for either of these beautiful old pathfinders, nor for Buttercup or Chester Pride, Portia or Grace Wilder, which were added as the years went by, and if there had been only carnations on our benches I doubt if we should have had butter on our bread, for the bread-and-butter carnation had as yet no existence.

THE TIDE TURNING.

In 1888 with Tidal Wave the tide began to turn, and Father Dorner soon after gave us a delightful set of seedlings and these, with Lizzie McGowan and Daybreak, set an entirely new pace, and a carnation, from being a spoiled beauty for admiration only, began to be questioned as to its right to occupy space and as to its returns in hard dollars and cents per square foot; the heavy boot of sordid commercialism had kicked aside the old-time beauties, and the husky varieties with sleeves rolled up, stems like steel, calyces like gutta percha, petals like leather, and a noise like money, came rustling on the stage and many a song and dance they have given us.

Visitors who go about a greenhouse with the proprietor seldom fail to remark upon the elevating influence of flowers; I have never known a florist yet who failed to acquiesce; he will stretch his neck in his collar, elevate his shoulders, and really feel higher up both mentally and morally as the suggestion is once more made to him. But I have seen the most enthusiastic visitor put to flight from the most magnificent carnation range by a very depressed looking section hand who might be scattering bone meal or other dainty tidbit for Lady Carnation's mid-week meal. And further, I have known carnations that have dragged their owners down very near to the bottomless pit, and even the best of varieties at times have tried the souls of their grower till no modern tongue contained sufficiently lurid language to express his feelings.

THE VARIETY JUBILEE.

I once made the acquaintance of a glorious red carnation, sweet as winds from Araby, a stem like whalebone, 8 and 10 blooms to the plant, a blaze of color, and every florist wanted it by the 500 or 1,000, but the rust "swept down like the wolf on the fold" and devoured every green leaf, and I still have the vision of our good German grower with wildly waving arms over his grassless benches exclaiming "That Jubilly, he was the very teufel," and what else he may have said when no ladies were present I never dared inquire. A prominent firm in Massachusetts who had a nice order for "Jubilly" placed with us, was extremely curious to know why they were failing to receive their cuttings, and made inquiry quite forcibly weekly, and faintly each week we replied. I am glad that I am addressing a company of florists every one of whom has disseminated or has been upon the point of disseminating a new carnation, for you know exactly what I am talking about, and how often you went into a perspiration before the season closed, and neither did you need a rose temperature to make your pores open.

Well, some four years after Jubilee this same prominent Massachusetts firm sent out a seedling, Mrs. Thomas R. L., I believe. We gave it a good write up in our catalogue—"Size enormous, stems stiff, free in growth, profuse in bloom, of healthy constitution, never bursts its calyx, everything has been claimed for it and our opinion is that it will justify the claim"; and it did very nearly, but I believe it was late in May before our orders were filled and so despicable is feminine human nature that I confess to pure enjoyment in going to our file and copying verbatim several letters addressed to us four years previously only substituting the name Mrs. Thomas R. Lawson for Jubilee asking why we were not receiving those cuttings promised us with such absolute certainty for early delivery in the January past, and I think that the secretary of the disseminating company must have duplicated our replies of even date, for I recognized the same tone of chastened humility that had characterized our own.

I never felt my sympathies more deeply stirred than in the case of a certain

CARNATION ADONIS AS GROWN BY W. C. SMITH, PHILADELPHIA, PA., IN 1904.

See Miss Hill's Address Before the Indianapolis Convention of the American Carnation Society, January 28, 1909.

BANQUET GIVEN THE CARNATION CONVENTION VISITORS AT THE COLUMBIA CLUB, JANUARY 28.

magnificent pink variety grown not a thousand miles away from this city which seemed to have every necessary qualification for success, but it later developed that the cuttings would not root. Now a perfect carnation, like the great American mortgage lifter, must "Root, hog, or die." We waited and waited for those cuttings; so did the rest of you; each time we were told that the last batch had failed to root. One grower was sure the plants were grown too warm; another that it was too much bottom heat in the propagating house; a third that they needed a Bordeaux spray. A happy thought struck our firm; we would ask for unrooted cuttings, would take them over to Richmond, under our perfect conditions we would root them in three weeks and complete our orders. Our disseminating friend was very accommodating and sent us baskets of the loveliest tips imaginable, but with every appliance known to modern carnation culture, we failed to root over 10 per cent. It would not have been safe for you to talk to the owner of Mrs. Nelson that year on the elevating influence of flowers. Nothing short of diabolism itself could have been more tantalizing than the antics of that magnificent beauty.

EASTERN AND WESTERN BEAUTIES.

Our firm has at different times tested for their owners a number of aspirants for favor with varying success; its a risky thing to do; if they fail to make good, the owner will always have a doubt in his mind as to whether all the conditions were just right to bring out their good points; the gentleman, who does the testing, and his grower, will have arguments about wasted space and the nice discrimination needed in endorsing a novelty. Less than a decade ago, your toastmaster went down into the east to take a last look at a fine white seedling which we were to test, and if satisfactory to help disseminate; it showed up so fine down in its eastern home that he could hardly wait to get the stock planted on his own place. In the meantime, our Fred H. Lemon had gone up into the northwest on a similar errand with regard to a gorgeous pink; on his return he gave the usual wheatfield description, buds and blooms knocking their heads together—and such heads—on such stems! "E. G. H." wanted a south bench to test his white beauty and "F. H. L." insisted on a southern exposure for his glorified pink; they each had a 200-foot bench facing south in the best 400-foot house. When the date of the annual meeting of this society came around, where the white beauty and the glorified pink were to take your breath away, "E. G. H.'s" south bench was covered with a dense growth of pale green carnation grass which would have required a scythe to cut it and not a flower in sight, while "F. H. L.'s" south bench looked like a patch of seedling onions in very early spring, with an occasional petal of pink thrown in for cheer. The two gentlemen never went together to inspect the two benches; the senior member might be seen gazing with a pained expression at Lemon's choice, but carefully avoiding a glance at his own eastern beauty; an hour later, "Brer." Lemon could be found, arms folded, an unholy smile upon his face, gazing at 200 feet of Hill's hopes, but without a glance at the onion patch, and to this day their only comment has been, "check!" but the check never went through the treasurer's hands.

THE ILL-FATED ADONIS.

Then there was Adonis, and here words fail me for the present, but, some day when Richard W. and Robert C. and the secretary of The E. G. H. Co. have all reached the age limit, and have leisure to take up literature, we are going to collaborate a biography and romance of the young Adonis, the most ravishing scarlet carnation ever shown to human gaze; behold a bench of it in full bloom, heads erect, a color far beyond words to describe. You can see the ecstasy in the faces of Messrs. Craig, Hill and Witterstaetter as they devoured its dazzling beauty. This is not yet a matter of ancient history and still it was before the days when the florist had grown sadly wise and had learned to balance a carnation stem on his index finger as the juggler does his pole to test its stiffness; before he had learned to draw the flower slowly through his closed hand and watch the petals spring back to the horizontal, before he had learned to slap the bloom upon the table and watch the resisting power of the texture; Adonis helped to teach the trade this last trick and so was not wholly lost in the economy of carnation culture.

Since Adonis there have been others; they are current history and still in mind. Father Dorner and Peter Fisher have been the means of giving us the most popular carnations and the best wage earners in the family; we can gaze long and fondly upon White Perfection and Enchantress as a father does upon a good child and say, "They have never given me an anxious moment." Oh! but

the waste of it all, the squandering of hard earned dollars you may say; but progress always costs in any line of trade or life and the expenditure of money is the smallest item; the thing that really counts is endeavor and patient perseverance, and absolute honesty, and this is as true in commerce as in manufacturing or in carnation culture, and flowers do have an elevating influence on their growers, if the soil is mixed with good will for one's fellows and faith in a kindly Providence that sends the needed rain and sunshine and finally gives the increase.

Final Resolutions.

The following resolutions were adopted at the close of the banquet by the committee on final resolutions:

Whereas, The American Carnation Society has been for the past two days the guest of the florists and members of allied professions of Indianapolis and vicinity, and

Whereas, The exhibition hall and facilities for staging displays have been the most convenient and best adapted ever placed at our disposal, and

Whereas, The kindness, courtesy and ever ready assistance extended by our fellow members of Indianapolis have deeply impressed us, therefore

Be it resolved, That we tender to the city officials of Indianapolis our sincere thanks for the hospitable welcome extended to our society.

That we record with deep appreciation our gratitude to the State Florists' Association of Indiana and the members of our profession who have been allied with them in perfecting the admirable arrangements which have contributed so greatly to the success of this meeting. And that our thanks are further due to the press of the city for the accurate reports they have made of our meetings, and to the horticultural press especially, for the interest they have taken in advancing the welfare of our society.

F. R. PIERSON,
PETER FISHER,
WM. WEBER,
Committee on Final Resolutions.

The Banquet.

At the elaborate banquet given by the State Florists' Association at the Columbia club in honor of the members of the American Carnation Society, January 28, Dr. J. A. E. Haugh introduced E. G. Hill as toastmaster, who after a few introductory remarks called upon Mayor Bookwalter, who responded to the toast "Indiana, a Good Place to Stay." "My own acts prove," said the mayor, "what I think of Indiana and Indianapolis as a place in which to remain. The stork left me here in Indiana and although I wandered away, I came back. Now a wife and assets in the way of a family, all of whom stay in Indiana, testify to our regard for the state." The mayor paid a tribute to the business of growing flowers. He said that a man's environment and occupation leave a stamp upon his face and his character. "A man whose work," he continued, "keeps him surrounded by beautiful flowers is bound to influence him. We who buy the products of your labors may think we are paying Broadway prices for Indiana flowers, but I believe we get full value for our money. While the prices may rise consistently, the standard is rising with the price. The people of Indiana and Indianapolis are glad to have had you growers here. We hope you will not wait many years before you return, for Indianapolis and Indiana are both good places to stay."

MENU.

Blue Points
Celery — Radishes — Olives
Consomme Royal
Fillet of Sole Au Vin Blanc
Cucumbers
Sweetbreads Saute A La Financiere
Roman Punch
Roast Crystal Spring Duckling Apple Sauce
Cauliflower Cream Sauce
Browned New Potatoes
Lettuce Salad
Frozen Egg Nogg
Cake
Cheese
Demi Tasse

Dr. Haugh proposed the toast of "Our Guests" in fitting terms with response by J. F. Ammann, Edwardsville, Ill. A vocal solo by Miss Maud Langstaff followed and Miss Sarah Hill was then called upon to speak of "Some Carnations I Have Met." This address proved the gem of the evening and was heartily applauded.

W. N. Rudd spoke of the exhibitions and in connection therewith told the story of an inspection party visiting a penitentiary and remarking upon the cleanliness of everything about the place and the total absence of flowers on the grounds around the building. "Yes," the warden replied, "We have always wanted flowers here, but, don't you know, there has not been a florist sent to the penitentiary since I have been here."

J. C. Vaughan was next called upon and referred to the loss sustained by the society in the loss of the late L. E. Marquisee.

J. A. Valentine spoke for the parent society and other speakers included President Patten, who distributed the special prizes, Mrs. Vesey, representing the ladies, A. T. Hey, and Aug. Poehlmann, the last named reminding the audience of the Buffalo convention and exhibition of the American Rose Society, opening March 17.

At the close of the addresses, H. M. Altick, of Dayton, O., read a poem on the "Flower Divine," by the late L. E. Marquisee written shortly before his death.

A quartette and orchestra contributed to the pleasure of the evening by the rendition of frequent selections.

Echoes.

Our three friends from St. Louis, Otto Koenig, Fred Meinhardt and Theo. Miller, seemed to enjoy every minute of their visit, and regretted when the time came for them to return to the state where they have to be shown.

It will be expensive business for Leonard Kill and Ed. Hauswirth to be reinstated in the Sucking Pig Club. Moral: Members should attend the meetings and continue in good standing.

Albert M. Herr has given the society many long years of useful service as secretary. The members were highly pleased to elect him president for the ensuing year.

The German house proved an ideal place for the exhibition. The air seemed to be just right, as nearly all exhibits kept in fine shape to the end.

Let us all make up our minds right now to attend the next convention at Pittsburg. We cannot afford to miss it.

Judge Vesey, of Fort Wayne, Ind., is a prince of good fellows; he does not believe in doing things by halves.

We were all very glad to see our old time friend, Fred Dorner, Sr., taking such an interest in the exhibits.

The exhibit of miscellaneous plants by Henry Reiman was one of the greatest attractions of the show.

Mrs. Vesey and Miss Sarah Hill made two of the best speeches at the banquet.

CARNATION

HOUSE OF CARNATION RUBY.

Fred Dorner, Jr., was de-light-ed with the showing made by his two new red carnations.

The most talked-of variety on exhibition was James Whitcomb Riley.

What would the carnation convention be without W. N. Rudd?

W. W. COLES.

Convention Notes.

Starting at 6:30 a. m. an interurban car carried 54 convention visitors to Richmond. The early start and long journey surely proved their enthusiasm, for there was a blizzard at the time, and it is 68 miles from Indianapolis to Richmond by the interurban.

Many of those in attendance visited the greenhouses of Bertermann Bros., at Cumberland, to see the new J. Whitcomb Riley carnation growing.

Dorner's, at Lafayette, and the various Richmond and New Castle establishments, proved irresistible to many of the visitors.

Miss Sarah A. Hill's address, printed elsewhere in this issue, was the gem of the convention.

There were about 150 at the banquet, including 25 ladies.

Additional Visitors.

In addition to the long list of visitors given in our issue of January 30, the following were in attendance:

M. A. Barcick, Seymour, Ind.
W. A. Clarke, Pittsburg, Pa.
F. Brinker, Pittsburg, Pa.
Mrs. E. Dailledouze, Brooklyn, N. Y.
H. B. Dorner, Urbana, Ill.
Eugene Ender, Chicago.
Chas. L. Frank, Portland, Ind.
Elizabeth Frank, Portland, Ind.
Harry C. Frank, Portland, Ind.
H. M. Frank, Dayton, O.
Jos. F. Frank, Champaign, Ill.
Sol Garland, Des Plaines, Ill.
G. R. Gause, Richmond, Ind.
R. B. Hayes, Shelby, O.
Fred Heinl, Terre Haute, Ind.
Jos. G. Heinl, Terre, Haute, Ind.
Miss F. W. Herleman, Marion, Ind.
D. R. Herr, Lancaster, Pa.
Miss Sarah Hill, Richmond, Ind.
L. E. Hitz, Marion, Ind.
Simon Humfeld, Muncie, Ind.
E. M. Hyatt, Anderson, Ind.
J. Jones, Richmond, Ind.
Allen Kimmel, Portland, Ind.
T. L. Knipe, Kokomo, Ind.
O. G. Koenig, St. Louis, Mo.
E. N. Kroninger, Allentown, Pa.
Leroy L. Lamborn, Alliance, O.
De Forest W. Ludwig, Pittsburg, Pa.
Earl Mann, Richmond, Ind.
F. C. Mann, Dayton, O.
Wm. Meine, Richmond, Ind.
Theo. Miller, St. Louis, Mo.
G. Mueller, Milwaukee, Wis.
Henry Newby, Logansport, Ind.
P. J. Olinger, Cincinnati, O.
Mrs. Olinger, Cincinnati, O.
Harvey Parker, Richmond, Ind.
Geo. Pastor, Huntington, Ind.
H. H. Ritter, Dayton, O.
A. G. Robinson, Louisville, Ky.
Ben Schweder, Richmond, Ind.
W. E. Slack, Marion, Ind.
J. S. Stuart, Anderson, Ind.
W. M. Tiplady, Lexington, Ky.
Jos. A. Wiebens, Chicago.

MASON CITY, IA.—Edward Curtis of the Curtis Floral Co. of Hampton, has located in this city and will run a large flower store here, under the name of the Mason City Floral Co.

ORANGE, N. J.—The president's reception and annual smoker of the New Jersey Floricultural Society will take place on Friday, February 12, at 8 o'clock at their rooms in the Lindsley building. Prominent speakers on horticultural themes, entertainment and the usual floral display will be features of the evening. —J. B. D.

Favorite Flowers of Famous People.

KAISER ADMIRES THE EDELWEISS.

The emperor of Germany has for his favorite flower the edelweiss, an inhabitant of snow-clad peaks. For the flower perhaps his preference was unfortunate. Since the day when he first appeared on an occasion of state with a blossom of edelweiss in his buttonhole the plant has been practically exterminated throughout its native habitat. At once it became the fashion, and was so generally worn by men, women and children that nature's supply could not equal the demand. For a long time now in Germany it has been artificially grown as an important article of commerce.

EDWARD VII BOOMS THE GARDENIA.

Edward VII. is somewhat fickle in his love for flowers, and has a way of taking up first one flower after another and making it fashionable. For several winters, however, he has worn in his buttonhole a single gardenia. In New York, as well as London, this flower has, through his setting of the fashion, been the correct boutonniere for men, and for some years it has as well been adopted by women. The duchess of Marlborough on several occasions has been seen wearing corsage decorations composed of as many as 20 of these blossoms.

VIOLET LOVED BY NAPOLEON.

"Violet crowned Athens" has come down as a simile for a city of flowers, one of reigning festivities. For, as the flower of Athens, the violet was greatly beloved throughout Greece and was naturally the emblem of Athens. Later, Napoleon chose it for his favorite flower. So strongly did Napoleon make his love for the violet felt that after he had gone to Elba the flower still spoke of him. In France it shortly became then a sign of imperialistic sympathy to be seen wearing it, or even to acknowledge that it was held in admiration.

KING OF ITALY LIKES THE TUBEROSE.

The king of Italy favors, among flowers, the tuberose. Not that he wears it in his buttonhole; rather he likes the high, slender arrangements of it which throughout its season are seen in almost every Italian home. The scent of it there, it would seem, permeates the whole land.

HOUSE OF CARNATION MRS. CHAS. KNOPF.

THE RETAIL TRADE

Dinner Table Decoration by A. McConnell.

One of the most notable decorations ever executed in New York and far exceeding anything that has occurred this season, was that at the Plaza hotel on the night of January 7, the occasion being the debut of Miss Marjorie Gould, daughter of George Jay Gould and wife. The decorations were by Alexander McConnell and his skilful assistants. Practically one entire floor of the immense Plaza was given up to the event and great numbers of American Beauty roses, orchids and lily of the valley were used in the decoration. The decoration of Miss Gould's table was a very skilful piece of work, the main scheme being a representation of three large flowering rose trees, the roses being white, on a sunken garden of lily of the valley. The trees were connected by garlands of lily of the valley arranged in a striking and beautiful way. At the other two tables the sunken garden effects were carried out with cattleyas, Australian tree ferns decorated with orchids being used instead of the rose trees. Palms, ferns and southern smilax were used in profusion about the halls, and there were arches of American Beauty roses.

St. Valentine Day Supplies.

There is very little that is actually novel in the way of supplies offered to the trade this year for St. Valentine's day. As usual the business will naturally center around the violet. In violet boxes, the regular line of folding violet colored oblong paper boxes are with us again. Then the red heart shaped box in three different sizes, which was here last year is again seen. Very attractive also is the violet heart shaped wicker hamper (so called Japanese), this is very neat and in but one size. One of the few novelties of this season is the heart shaped box with forget-me-nots and bleeding hearts on a white ground. A similar box, new this year, has violets on white ground and is offered in two sizes for 100 and 200 violets respectively.

Violet ribbons and cords are offered in variety. These cords are about three-quarters of a yard long and all are tasseled, the two most inexpensive being a medium wide cord and one of a heavier grade. In this violet shade a braided cord on the same order but very heavy is also seen. Phantom gauze cord with satin edging and tasseled ends is attractive and not expensive.

One of the neatest offerings in this line is a violet ribbon shot with green and pink bows on the end. In the regular supply of ribbons there is the usual assortment of violet shade, white pink, Nile, scarlet and Mais, are also appropriate for St. Valentine's day. A fancy ribbon about two inches wide with slender green bars on a violet ground is very neat. The same ribbon in solid violet is also good.

Pearl corsage pins in all shapes and sizes are shown and are as neat as they are inexpensive. Of course the violet foil will not be forgotten. Very appropriate for milady's bouquet. Green foil also should not be forgotten and in many cases would be quite as attractive as the violet. Violet wax paper is offered and helps finish the fancy hampers and boxes noted above.

Funeral Designs.

Funeral work is the most important factor of the retail trade. Little money is made by the selling of cut flowers, for when a customer comes in with 50 cents or $1 he or she expects what often costs the retailer more. Then again, we must figure the loss by waste. Now to the shop that has orders for a good funeral trade many of the profit leaks, such as waste of stock are eliminated—for if the clerk or shop keeper knows his business everything can be used up, even the stemless roses.

This subject is one upon which much can be said. Discretion in sizing up a customer, whether he will spend $2 or $2.50, is the most important thing. After having judged your man, don't fall back into the old rut of 25 years ago and talk a gates ajar, or a broken

Store of Alex. McConnell, New York.

wheel, but rather suggest something original, presuming that your man wanted to spend, we will say, anywhere from $25 to $100—which, in large cities, is no uncommon thing. Why not then suggest a handsome bunch of American Beauty roses with a clump of violets just where the bow of ribbon is fastened? Or, for another, a bunch of longiflorum lilies with a clump of mignonette 25 to 50 or 50 to 100. A wreath of cattleyas or violets and gardenias; a casket cross of violets with a bunch of orchids and Adiantum Farleyense, a wreath or cross of Killarney roses with Farleyense and mignonette.

CASKET COVERS OR BLANKETS.

These are two different things, although some mean them as one and the same. The casket cover is made to conform to the casket being on a wire frame. This was formerly used to a greater extent than now as the later caskets are of the open style. The casket cover, if such it is, is first covered with smilax. Then the flowers used would depend upon the age of the deceased. Some handsome covers we have seen were made of Bridesmaid roses with a band across of lily of the valley or violets, then garlands of Bridesmaid looped around the same. Perhaps the choicest combinations would be one of solid violets and Adiantum Farleyenses with a band of cattleyas; the garlands here would be alternately of violets and cattleyas.

Speaking of palls or blankets, a piece of albatross is procured, according to the size desired. This, when covered with green, is ready for the flowers which are treated as for the casket cover only that the garlands are eliminated. I made one of these a little while ago of violets and Adiantum Farleyense, placing diagonally in the center, a casket cross of gardenias. This made a choice pall.

A short time ago I had occasion to visit a fellow florist who was about to make a design. Trouble he was having in plenty and what he was saying would not look well in print. One by one he would try to place his flowers but each stick would break. Was it the fault of the stick? No, the whole fault lay with him, as it so often does, in the mossing. Houses will fall on poor foundations and likewise, no design can be turned out if its foundation is not properly started. In taking the design apart we found half as much again moss as was required and fully a half spool of thread. When sending the boy to the cellar to moss a design, go with him and show him first to pull the moss apart—then see that it is dampened. Show him how to take the moss loosely and not to pack it in as hard as possible. With the design filled, let him tie it in securely and at the same time use as little thread as possible. With this done the main trouble is overcome.

See that the design, be it a pillow, cross or wreath is not backed with tin foil, but rather covered with galax or ferns. Many designs are spoiled by the over use of lettering. It is true that many people wish it—but many times a good salesman can talk them out of it, and at the same time give the customer a richer and neater design. Presuming a delegation from some car shop drops in asking to be shown some designs. In many instances the clerk digs out a book of photographs instead of taking pencil and paper and drafting for his customer some standing design richly put together, that will catch the customer nine times out of ten.

Years ago a car made for a railroad man went or a horseshoe for the shoer, but we have outlived that age and time and today people want more and more original designs. Some one comes in and says, "I want some flowers for a grave that will last." Don't advise an immortelle wreath or a wreath of galax. Suggest an empire wreath which is simply a crescent wreath opened at the narrow part and brought to a point. This is mossed perfectly round and sweet bay or green leucothoe leaves used pinned on solid giving the effect of a model or chiseled wreath. Then in the center or thick part of the wreath a cluster of sprays, and, by working in a handsome bow of purple ribbon, one has a dignified design. For another, nothing gives better satisfaction, if properly put together, than a crescent wreath of boxwood. This dark green foliage stands the storms better perhaps than anything we know of. Take it, say at Christmas, and work into it a cluster of red berries, place it on a grave and it is good for four to five months.

Remember, workers, whatever your design might be conform and work to it. Don't make a wreath look like a mound as is so often the case, or, as I saw some time ago, a standing cross festooned from the top to the arm and then some which gave it the appearance of a ship's mast. Above all things be artistic from the smallest to the largest work; give a little touch of originality for it pays tenfold.

C. A. SCHNELL.

DINNER DECORATION AT PLAZA HOTEL, NEW YORK, JANUARY 7, 1909, BY ALEX. McCONNELL, AT THE COMING OUT OF MISS MARJORIE GOULD.

Ice Box Cooling Machine.

ED. AMERICAN FLORIST:—

We are contemplating the erection of two ice boxes in our stores, the dimensions of the boxes being 3x9x8 and 5x8x7 feet respectively, to be equipped with an ice machine. We wish some reader would enlighten us on the practicability of such cooling machines, and what would be the proper temperature of a flower store ice box. K. F. C.

Those who have tried ice machines consider they are so far superior to the old methods of cooling by ice that in no instance have we heard of any one discarding or thinking of discontinuing the machine after once installed and in good running order. The main advantages of cooling by machinery are: The elimination of dirt and mess incident to filling the box with ice; the even temperature that can be obtained by an ice machine properly equipped; the economy of space in the box, showcase or refrigerator.

To keep any kind of flowers successfully an even temperature is absolutely necessary, a variation of 5° is often fatal; in fact, the temperature in most florists' refrigerators fluctuate more than this, possibly 10° to 15°, caused principally by carelessness in leaving the door or doors open. For carnations a temperature of about 45° is excellent, with a free circulation of plenty of air, not crowded either in the vases or the vases in the box. Too often carnations are ruined by overcrowding; they delight in plenty of fresh air. With an ice-machine the temperature can be kept much drier and consequently the carnations are much harder and crisper; too much dampness will cause sleepiness; in fact, they want to be kept as dry as possible. Roses will stand a damper atmosphere, but still, a dry air will not injure them, as long as an even temperature is maintained. Roses will lose their color under a fluctuating temperature far quicker than two or three days storing under an even temperature.

Ice boxes of the size mentioned should be cooled easily with a 2-ton or even a 1-ton refrigerating machine. With a 2-ton machine, expansion of the size of the coolers would be possible with no additional expense. If the machine is not to be run almost continually during warm weather, then brine tanks should be installed, they acting as a storage battery, holding the temperature over night or for even a little longer period. A plant of this kind should be installed for about $1,000; by some concerns for less and others more. The best and easiest power to use is electricity, being far less trouble to handle and only using and paying for current when necessary.

S. S. PENNOCK-MEEHAN CO.

We try and keep our ice box as near as possible between 45° and 48°. We find that, when it can be arranged, natural cold, secured from outdoors is better than artificial cold, but this is, of course, impracticable when the store is located in a large block or in a closely built up city section.

GEO. ASMUS.

ALBION, N. Y.—The west wing of the greenhouse owned by Julian Duquette, in South Clinton street, was destroyed by fire January 27. The office was burned, but the south part, built last summer by Mr. Duquette, was saved. The damage to the building and contents is estimated at $1,500.

DESIGN BY CHAS. P. MUELLER, WICHITA, KANS.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Cosmos.

Where there is a demand at retail for a good variety in cut flowers a few plants of cosmos may be grown for early cutting under glass. The seed may be sown at once in a pan or flat and the plants pricked out as soon as ready. When sufficient call for it exists a bench may be devoted to its culture, but the ordinary retailer will not need a great deal of it and it is not a good flower to ship long distances. There are frequently small side benches or corners in the houses that can be used for such plants without taking up much valuable space and in such positions the plants may be set out when ready. Plant them in such a position that a wire or stout string can be run around them as after they grow to a considerable height the plants are apt to fall over when crooked stems and poor foliage will result.

Forget-Me-Nots.

These little flowers are not in great demand but there is always a welcome for a few. The house in which they are grown should be kept cool and the treatment that is effective for pansies and violets is also suitable for the myosotis. Where plants were pricked off into frames as we advised in the fall they will now be good stock for lifting and transferring to the benches inside. Earlier plants that have flowered should be lifted and thrown out to make room for these unless they are needed for stock, in which case they may be returned to the frames and planted, there to remain until it is time to work up stock outdoors. The soil in the benches on which the plants are growing should be kept fairly moist but a little sulphur should be applied to the pipes occasionally in order to check mildew which sometimes makes its appearance and is destructive to the plants.

Antirrhinums.

At this time antirrhinums will be taking a decided brace and the increasing light will help the growth and advancing flower spikes. The earliest planted stock, which is depended upon to produce large heavy spikes, will probably be benefited by a light application of a good concentrated fertilizer which may be stirred into the surface soil and watered in. Apply it when the soil is in a medium state, not very dry or very wet, but just in the condition that it will take a watering without injury. Later plants will not yet have sufficient hold of the soil to require feeding and the roots will not have used up the nutriment in the soil. Here the only attention necessary will be to stir the surface soil frequently to admit the fertilizing properties of air and light and to enable the grower to see how the soil is in regard to moisture. As the growth gets more vigorous, the roots will be extending more into the soil and will take more moisture. Any plants that are not making the headway they ought to should be examined, and if it is apparent that the water is not getting away from the roots freely the supply must be diminished; otherwise they will continually get worse and the

crop will be a failure. Before the spikes get sufficiently heavy to break or bend from the spraying see that they are supported in some way, as they are very brittle and easily break out.

Bulb Stock.

Where bulb stock was potted early and kept cool it will be always ready when wanted for bringing into flower. Nothing is gained by holding the bulbs out of their pots for the better they are rooted the finer the flowers will be. Narcissus Golden Spur has, of late years, become very popular for forcing on account of its fine yellow color, handsome flowers and early flowering habit. It may be brought into flower in about 16 days in heat and in a temperature 60° at night in about three weeks. Single tulips will need about the latter time and it is too early yet to force many double varieties. The treatment after taking them out of the plunging material has been too often noted to need extended reference but we may again warn growers against exposing the tender, pale yellow shoots too suddenly to the light or giving strong heat at the start. Bring them on gradually in both respects. Keep the soil in the flats well watered and avoid wetting the plants much overhead and all will be well.

System in Routine Work.

The more one has to do with greenhouse work the more he is impressed with the necessity of keeping the necessary details strictly up-to-date. When a bench of roses needs disbudding today a man can do it in far less time and with greater benefit to the plants than if it is left for a few days. The buds will be larger, they will have taken more of the necessary vigor of the plants to extend and their removal is more of a shock to the plants' system when they have to be cut off with a knife than if rubbed off with the fingers. The "do it now" idea has perhaps been overworked but "do it as soon as it is necessary," would be a fine idea to keep before the minds of section men and helpers generally. The present is a busy time; all plants take a brace and there is much to do in providing for their needs. Thousands of dollars are lost every year owing to those in charge of growing establishments not having such a line on their work that they can foresee what is coming and prevent waste. A good manager when he propagates 10,000 roses or carnations should have in mind the future of these plants and be prepared to take care of them right along. If they have to be left getting potbound while the benches or soil are being prepared for them there is a dead loss in the wasted vigor of the plants. If they have to be potted into larger pots there is a great expense, not only in the matter of pots and potting, but in the increased work of carrying the finished plants to the benches and the greater trouble of planting. This may seem a small matter when only a few hundred plants are concerned, but it is the system that is in fault and it is characteristic of some places that these things are left more or less to chance while in others the hand of the manager is seen everywhere in the freedom from friction and the easy way in which the work always appears to be done on time. Little details are attended to before they have time to grow into big ones while the routine work seems to do itself, so little does it disturb the arrangements of the place. Contrast this with the place where the foreman or manager is always rushing about with three or four things in hand at once, some parts of the work always left to be gone over and the men being given orders of a contradictory nature. No need to say which place will show the better balance of profit at the end of the year. The thing is important and well worth looking into by all, from the proprietor of the smallest greenhouse establishment to the foreman or manager of the acres of glass in our largest plants.

The Foley Cup.

Awarded to F. R. Pierson Co., at National Flower Show, 1908, for Best New Rose, With White Killarney.

Control of Thrips in Cucumber Houses.

On March 14, 1908, we received a report from Streator, Ill., of serious injury to cucumbers from thrips. A visit was made March 25, and it was found that two crops of cucumbers had been practically ruined by them. At the date of my visit it was impossible to get any young plants started in the beds, for as soon as they were set they were immediately covered and so completely that the plants were soon stunted and worthless. The owner, who had 10 large houses, reported that he had tried about everything on the market but that anything that killed the thrips injured the plants to such an extent that he was forced to discontinue its use. He was using hydrocyanic acid gas for exterminating white fly and had also tried it for thrips as strong as one ounce of potassium cyanide to each 1800 cubic feet of space but without appreciable results.

The experimental evidence as to whether thrips could be killed with the above named gas was decidedly conflicting. Prof. Sirrine of the New York Experiment Station in a paper before the American Carnation Society, February, 1900, included Thrips tabaci among the worst carnation pests. He found that carnation buds were injured by hydrocyanic acid gas even when used at the rate of one-half ounce per 1,000 cubic feet. More important, however, is his statement, "I have used hydrocyanic acid gas on this pest when on ferns as strong as three ounces to 1,000 cubic feet of space, allowing it to act all night without injuring the thrips in the least. We will say nothing about the condition of the plants."

ROSE WHITE KILLARNEY.

As Grown by F R. Pierson Co , Tarrytown-on-Hudson, N. Y.

WHITE KILLARNEY GROWING AT THE SCARBOROUGH RANGE OF THE F. R. PIERSON CO., TARRYTOWN-ON HUDSON, N. Y.

Dr. W. E. Hinds in May, 1900, reported the results of some tests for the suppression of greenhouse thrips in which he used .155, .2 and .31 grams of potassic cyanide to 30 cubic feet with excellent results. This is using the gas at the rate of one ounce of cyanide to 3,000 to 5,000 feet in an all-night fumigation. All the thrips were killed in his tests. It will be seen that the results were quite different, for, in one case, from one-fifth to one-third ounce of cyanide gave positive results, while in the other three ounces failed to kill thrips.

In Circular 37 of the United States Division of entomology it is stated that Scott, McGowan and Meteor carnations withstood one-tenth gram of 98 per cent cyanide per cubic foot for 15 minutes without injury. This is a little over three ounces per 1,000 feet although we must not fail to consider that the time for the exposure is very short. "This will kill about 90 per cent of the plant lice but will not kill thrips."

Since the use of hydrocyanic acid gas has passed the experimental stage in the repression of cucumber insects it was decided that some tests should be made as to its value in killing thrips. Three connected houses each 15x300 feet, of the short roof type, were offered us for a test with the gas. There were one and three-fourths houses in young plants 12 to 18 inches in height, and one and one-fourth houses of large bearing plants. The old plants were infested with white fly and all the plants were completely covered with thrips. Even the blossoms were filled with thrips. Twenty-five staminate flowers picked in various parts of the house yielded 81 specimens of thrips. The pistillate flowers were apparently as badly infested and the failure of the plants to set fruit was attributed to this cause. This view was found to be correct but the amount of the damage was not obtained. It may be well to call attention here to the fact that on some plants like strawberries the greatest injury is done to the essential parts of the flower, and in others as pears and other fruits the total destruction of the crop is brought about by the action of thrips in the blossoms even though they also seriously damage the foliage.

The houses contained 108,000 cubic feet of space and it was decided to use one ounce of the cyanide per 1,000 cubic feet. Accordingly 12 one-gallon jars were placed in each center walk. One pint of water and then one-half pint of commercial sulphuric acid was poured into each jar. The potassium cyanide, 98-99 per cent pure, was weighed out in 3-ounce lots and put into double paper bags. Three men, each carrying 12 of these bags of cyanide started from the further end of the houses and walking abreast rapidly dropped one bag in each jar as they passed down the houses and outside. This was done just before six p. m., March 25 which had been a warm sunny day with a strong wind. The latter had very much lessened about five p. m. The houses were filled in a few minutes with a cloud of the gas and every jar was a success. The liberation of the gas was considered ideal.

The next morning the houses were opened and the odor was very slight. The maximum temperatures recorded in the two ends of the houses was 70° and 72° rising to 74° in the morning. The old plants were uninjured. The young plants showed a paleness around the edges of the leaves and in some cases these edges drooped. Much of this trouble disappeared when ventilation and syringing were given. In the house farthest from the wind the terminal buds were scorched and the trouble increased toward the service building. This house was next a glass partition which tended to prevent the escape of the gas and it seems to have banked on the side next the service building and on the side farthest from the wind. The young plants in this half house never made any growth from the terminal buds but threw out good strong side branches which later yielded as good a crop as any plants in any of the houses and nothing but a careful examination would have disclosed any difference between them and normally grown plants. However, the results were too severe upon the plants to advise anyone to fumigate with this strength of the gas although it is often seen recommended for white fly.

The results in killing thrips were excellent. A large number of counts were made. Plants nearest the jars showed an average of 965 of the thrips killed and those least exposed as low as 86 per cent killed. The average of all counts made in all parts of the houses showed that 8.3 per cent of the thrips were alive. The counts were later confirmed by another man and the evidence is conclusive that thrips can be killed with the gas at the rate of one ounce per 1,000 cubic feet and upon plants that will stand the strength of gas mentioned it is an effective and important insecticide. It is quite important that we realize that this was one of the largest experimental tests ever conducted with this gas and it was under commercial conditions instead of being carried out in small greenhouse laboratories.

On April 30, the white fly having become as abundant as before, and the thrips even more abundant, it was decided to fumigate with hydrocyanic acid gas. The strength used was only one-third that used in the former experiment. This gave us an opportunity to observe the value of a weaker strength on thrips. The methods used were the same as in the former experiment except that only one ounce of potassium cyanide was placed in each jar. The next morning no injury whatever could be discovered on the plants. Examinations were made of leaves in equidistant points throughout the houses and and the proportion of 198 live to 23 dead thrips was found which indicates that on the average about 11 or 12 per cent were killed. The white fly were all killed.

The results show that one ounce of cyanide to 3,000 cubic feet is just as

effective as a greater strength for the white fly while thrips were not very much decreased and, unless the treatment could be often repeated, the thrips would not be checked. No opportunity presented itself to try any strengths between these two extremes but any amount that can be used with safety to the plant must often be used because of the rapid multiplication of the insects. If, from later experiments, the conditions under which it is safe to use, on cucumbers, as great a strength as one ounce of potassium cyanide per 1,000 cubic feet can be found it certainly is the most effective in exterminating thrips.

Thrips on upper surface, 327 killed, 27 alive, or 92.37% killed.
Thrips on lower surface, 160 killed, 87 alive, or 65% killed.
Thrips on both surfaces, 487 killed, 114 alive, or 81% killed.

Those leaves which were wet on both sides with the spray show dead thrips on upper and lower surfaces and it is quite certain that when live thrips were found that they had crawled over the edge of the leaf after the spray was applied. At warm temperatures the thrips travel rapidly over the leaves. The dead and live thrips on upper surfaces were adults. The immature forms feed on the lower surface of the leaves and consequently a

DEPARTMENT OF HORTICULTURE AND MARKET GARDENING AT AMHERST.
Instruction Building and Greenhouses at Massachusetts Agricultural College.

Owing to the danger of injuring the plants in using hydrocyanic acid gas sufficiently strong to kill thrips in large numbers, it was decided to test the efficiency of sprays. It was known that thrips were easily killed from the contact with tobacco extract sprays but the cucumber plant is injured by the spray. The greenhouses were equipped with a Skinner automatic watering apparatus and the test was made of spraying followed almost immediately by a syringing. As a preliminary test one-half a row containing 50 plants was sprayed with a seven cubic centimeter solution of pure nicotine in two gallons of water. The application was made with an auto sprayer and auto pop nozzle.

The adult thrips were feeding on the upper surface of the leaves in large numbers and the conditions were favorable for the test. The plants were sprayed without purposely wetting the underside of the leaves since it was not possible to wash off the spray on the lower surface of the leaves. The results were as follows:

SPRAYING WITH PURE NICOTINE IN WATER.

Plant No. 1.

Leaf	Upper surface. Alive	Upper surface. Dead	Lower surface. Alive	Lower surface. Dead
1	0	31	10	4
2	1	24	3	63
3	0	6	10	0
4	5	28	10	23
5	0	5	2	0
6	1	2	1	0
7	1	39	10	5
8	1	13	21	0
9	2	21	0	0
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
	11	169	67	95

Plant No. 2.

Leaf	Upper surface. Alive	Upper surface. Dead	Lower surface. Alive	Lower surface. Dead
1	1	39	2	21
2	1	9	0	6
3	0	2	0	4
4	1	19	2	10
5	0	14	3	1
6	3	15	3	0
7	4	2	7	0
8	2	26	1	6
9	1	16	1	9
10	0	7	1	4
11	0	3	0	1
12	0	3	0	1
13	0	3	0	2
	16	158	20	65

less number were killed. In order to cleanse the plants as soon as the counts were made and before the spray had time to dry upon the leaves the water was turned on and the spray material and dead thrips washed off.

It was observed in these trials that thrips when wet with the spray gave a few struggles and died. Thrips becoming excited from any cause often run through drops of water on the plant and some may be killed by attempting this with spray material. However, the only way to kill any considerable number of thrips is to hit them with the spray. No injury resulted to the plants from this treatment although the plants were restocked from the unsprayed plants in the same bed.

On April 30, two beds in another house were emptied of the old plants and replanted with young plants which had been thoroughly sprayed before planting. One bench of old plants was left in the house for a month after the young plants were set. These old plants were full of thrips and continued to keep up a supply as fast as the insects were killed on the young plants. Large numbers of the pests had been shaken off in the removal of the old plants from the beds. As soon as planted thrips infested the young plants in such numbers that had not treatment been begun immediately the plants would have been destroyed in a week.

It was desired to test whether by a daily application of spray it was possible to rid the young plants of thrips without injury to the plants. After each spraying the insecticide was washed off but the spray was kept off the lower sides as far as possible. The two beds were divided into halves. Eight plants on each half next the center line were left unsprayed as checks while the remaining 92 plants on each bed were sprayed with a different insecticide as follows:

Plat.	Insecticide.	Per Cent Pure Nicotine.	Amount per Gal.
1	Nikoteen	28.52	12cc.
2	Nicoticide	40.04	7½cc.
3	Nico-Fume	41.52	7½cc.
4	To-bak-ine	40.47	7½cc.

The amount of nicotine was about the same, that is, a little over three cubic centimeters in each gallon of spray, the object being to find out if any of these insecticides injured the plants less than others or whether any possessed any additional agent or quality which rendered it more effective against thrips. Also it was thought that the gummy substance which coated the leaves would not be found in all of the materials tried. This substance while of value in killing thrips is detrimental to the cucumber plant.

The applications were made as early as possible, while the thrips were still on the upper surface of the leaves, otherwise the work may just as well be omitted. Examinations were made on five hills of each sprayed plat and on one hill of each check section, the latter receiving nothing but the syringing with water. The results show:

Average Number of Thrips per Hill.

Treatment.	May 6.	May 20.	May 26.	June 3.	Average.	Per Cent Thrips.
Nicoticide	10	20	22	13	17	9.28
Nikoteen	14	8	34	18	18	10.57
Nico-Fume	23	8	29	19	20	11.28
To-bak-ine	28	13	10	10	16	8.71
No spray	65	48	278	309	156	100.

The results are remarkably close together which is after all about what we might expect since equal amounts of nicotine were present in the sprays used. The amount of leaf injury was very slight

CONTROL OF THRIPS IN CUCUMBER HOUSES.
House at Streator, Ill., Where Experiments Were Conducted

and was the same from the different treatments. The injury consisted of a narrow line of dead brown tissue around the edges of the leaves. At one time it was feared that this would result in a bad attack of curled leaf but a week later when the plants were inspected the trouble had disappeared, the leaves being normal except that they had a slight brown edge.

The gentle spray of the watering apparatus did not seem to affect thrips materially. At least it can be said that water must be applied with force which can only be done when the plants are not in bloom and at any time the work must be carefully done to avoid tearing the foliage. Water must be directed against the lower surfaces of the leaves with the object of destroying the young thrips as soon as they hatch, for it has been found that adult thrips are difficult to kill with water.

After June 1 the plants were thoroughly sprayed twice a week and syringed with water to remove the insecticide. When examined June 5 and 15 the plants were so entirely free from thrips as to make it almost impossible to find any specimens on them. The removal of the bed of old plants mentioned above eliminated a prolific source of infection. The check plants were seriously injured by thrips and their condition was very noticeable to any one passing through the house. The number of thrips per hill had increased from an average of 309 per hill to over 1,000. As many as 89 thrips were found on some of the larger leaves. Upon a large plant which has grown to the top of the house 1,000 thrips can exist. However, the oldest leaves were dry and of no value to the plant. When the plant is stopped in its growth and there is no longer a supply of fresh green leaves to keep up the plant's activities owing to the progress of the thrips' attack, the plant must soon succumb.

From the foregoing experiments it is evident that thrips can be killed by hydrocyanic acid gas at the rate of one ounce per 1,000 cubic feet. Also that spraying with 40 per cent nicotine preparations, using them at the rate of one teaspoonful to a gallon of water, will control thrips on cucumbers without injury to the plant, provided the spray is immediately washed off. If all the plants are treated and the spraying thoroughly and persistently done, even though the application has to be made each day for a time the thrips can be suppressed. Any insecticide that can accomplish this result when a house is thoroughly stocked with thrips can be relied upon to keep thrips in subjection if used regularly from the beginning of the season.

A. C. BEAL.

Canadian Weather.

During the recent cold snap the following temperatures were recorded from the undermentioned points; the figures given are below zero: Edmonton, 30°-42°; Calgary, 28°-34°; Lethbridge, 25°-40°; Medicine Hat, 28°-40°; Battleford, 34°-48°; Prince Albert 36°-50°; Swift Current, 28°-36°; Regina, 30°-39°,

F. R. Pierson Co. Will Build.

In 1906 when the F. R. Pierson Co., Tarrytown, N. Y., put up the last 55 feet 6 inches by 300-foot house, the firm anticipated erecting its duplicate the same year, but they even went so far at that time as to prepare the concrete trench for the heating pipes. The work, however, was delayed with the idea of executing it the following year, but then the "hard times" came along, and the proposition was laid over. But now with every prospect bright for business betterment, they have placed their order with the Lord & Burnham Co. for that duplicate house. It is to be the section iron frame construction, with a slope to the south of 26½ degrees, and to the north of 37½ degrees, making the height at the ridge 23 feet 5 inches. The sides are 6 feet 6 inches high from grade to the ice clearing plate at the eaves. The iron rafters are welded at the eaves to the guaranteed wrought iron posts which are partially imbedded in the concrete sides, and extend into the solid concrete footing 2½ feet below grade. Reinforced concrete is used up to the usual height of boarding. This concrete is tapered off near the top of the inside face so that it does not project beyond the cypress sash sill which is bolted to it by cast iron knees imbedded in the concrete. It has been customary to hinge the side sash directly to the facia on the under side of the galvanized plate, but the facia is done away with and the sash are hinged directly to the plate.

When the first house was ordered Mr. Pierson insisted on having an arrangement of the side ventilation that would extend the least possible into the walks; so Lord & Burnham Co. got busy and designed a specially compact gear with 6-inch arms, and carried the shaft directly through the posts which serve as bearers. As a result no part of the apparatus extends into the walks beyond the line of the side heating pipes.

In the ridge ventilation the operating rod is brought directly down through the bench and a miter gear used with the hand wheel placed at side of bench. This leaves the bench entirely free. The 15/16 x 1⅞-inch cypress bars are screwed directly to the angle iron purlins. The bars on the southern exposurs are spliced at one of the purlins with the L. & B. patent splice plate and metal weather seal.

VIEW OF THE LORD & BURNHAM HOUSE COMPLETE.

Massachusetts Agricultural College.

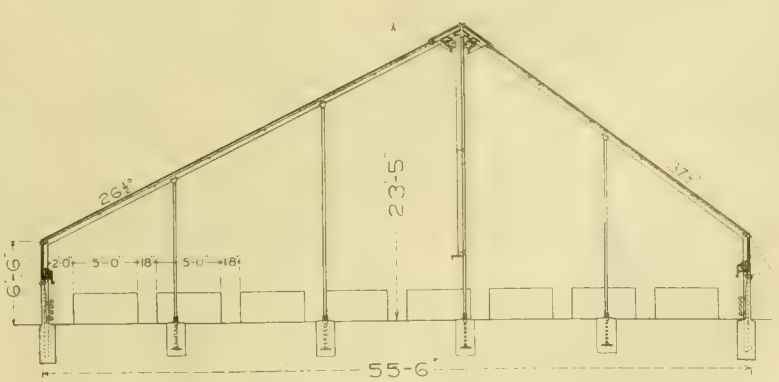
E. O. Orpet, of South Lancaster, gave a most instructive talk before the floricultural classess at Massachusetts Agriculture College January 27. Mr. Orpet spoke of the history of orchids, with special reference to the rapid increase in their production by American growers during the last 10 years. He also covered the cultural problems in a very clear, concise manner, and showed the blooms of many specimens which gave the students a splendid idea of differences in genera and species. The hour proved too short a time for the consideration of the subject, and Mr. Orpet met the students informally in the evening and answered many questions, regarding orchid culture. On February 3 George Sinclair of Holyoke will speak on "Chrysanthemum Culture." The observation trip on Saturday will be to the extensive commercial range of A. N. Pierson, at Cromwell, Conn. On the trip down it is expected there will be time for a visit to the noted rose garden at Elizabeth Park, Hartford.

French hall, the new instruction building for the departments of floriculture and market gardening, and the new greenhouse range, are nearly completed. Various horticultural associations, and prominent growers in the state, will be invited to attend the dedication, the date of which will be announced later. In this connection the senior class in floriculture plans to hold the annual flower exhibition. Many growers of special crops have signified their intention of sending material for this exhibition. These shows prove especially instructive to the students in their work with varieties, and in giving them an idea of the splendid quality of material the owners are placing on the market.

E. A. WHITE.

The Cyanide Trust in Germany.

Consul-General Robert P. Skinner, of Hamburg, advises that according to information, the manufacturers of cyanide of potassium and cyanide of soda in Germany have pooled their American interests, and arranged with a certain New York firm to act as their agents. They will not sell to other American firms. The agent of the manufacturers' combination is located in Hamburg. The consul also gives the name of another Hamburg firm through whom American purchases might be made. All these names are recorded at the Bureau of Manufactures, Washington, D. C.



SECTION OF NEW LORD & BURNHAM GREENHOUSE.

Under Construction for the F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time.

Advertising rates on application.

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Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa

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324 Dearborn St., CHICAGO

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Glass.

Jobbers report having a fair supply of glass on hand with prices low, at 90 and 30 per cent discount for double strength glass. They say that considering present conditions that those intending to build will make no mistake in ordering now, and should not be surprised if prices advance shortly. Inquiries are coming in freely.

THE concrete bench still has many problems for the grower.

THE prices of high grade lumber are stiffening and apt to go higher.

HARRY J. VEITCH, of Chelsea, Eng., has recently been made chevalier of the order of Leopold, a much coveted honor in Belgium.

H. B. BEATTY was re-elected a director of the Manufacturers' Light, Heat and Gas Co. by the largest vote in the history of the company.

OUR Springfield, O., correspondent mentions the fact that there is a possibility of several establishments joining in providing a central heating plant. Where there are a number of firms with their greenhouses close together this seems a good idea if the details of the scheme could be carried out satisfactorily and there seems to be no good reason why they could not.

"THE ROSE SLUGS" is the title of a recently printed bulletin sent out by the Department of Agriculture. It is from the pen of H. F. Chittenden and contains much useful matter. The American rose bug, its life history, distribution and remedies for it, the bristly rose slug and its enemies and remedies are all treated on somewhat in detail, and we may have occasion to further refer to this useful publication.

Ladies' Society of American Florists.

The members of the Ladies' Society of American Florists, return thanks to the Indiana florists for the royal entertainment given them at Indianapolis during the carnation meeting.

MRS. CHAS. H. MAYNARD, Sec'y.

Society of American Florists.

REGISTRATION OF ROSE.

A protest having been filed against the registration of a rose offered by the Dingee and Conard Co. under the name Charles Dingee, the registration of the same is held in suspense. Under the rules of this society the original matter of the registration and the protest against it have been placed in the hands of Robt. Simpson, certified to the undersigned by the secretary of the American Rose Society as the chairman of their committee in charge of such matters, and no further action will be taken by this society pending the result of the investigation to be made by the committee of the American Rose Society.

W. N. RUDD, Sec'y.

Plant Notes.

All growers are not aware of the excellent plants of gloxinias that may be grown from seed in one season. Seed sown now will give splendid flowering plants by August, bright, with good foliage and many flowers in 4½-inch pots, which they will quite hide with their foliage. Were gloxinias only easier to ship in good condition they would probably be very popular market plants. To get the best results in a short time careful culture from the first is needed.

Dimorphotheca aurantiaca the new annual from Namaqualand was recently figured in The Garden, showing it to be a very beautiful plant. The flowers are single of a very deep orange with a salmon flush to the petals, the general appearance being a good deal like that of an arctotis. It is a most distinct and showy plant and should become popular.

Much of the beauty of the newer and better forms of cyclamen lies in the fine, handsomely marbled foliage, which makes an attractive plant even when not carrying flowers. But when coupled with the large and beautifully colored flowers there are few plants that can compare with them.

Maurandia Barclaiana Alba is a fine variety for vases, window boxes, etc. The seed should be sown in February and the plants grown on and transferred to their permanent location from 4-inch pots.

Shipping Flowers to Chicago.

ED. AMERICAN FLORIST:—

I have several times shipped small consignments of flowers to the Chicago wholesale market, but the returns are not in accordance with the market prices as quoted in the AMERICAN FLORIST. Kindly explain the difference.

Indiana. E. H.

This is easily explained. If you were in the habit of shipping regularly to a good commission firm this firm would expect your consignments and lay itself out to find an opening for them whenever possible. But no firm, however anxious to do business, can be expected to give the same attention to consignments arriving irregularly, and probably most frequently when the market is full, as to its own regular shippers. Growers who have a home market for their regular production and ship to a wholesale market when times are dull and flowers plentiful cannot expect good results from the latter and, although this may not be your case, you will be quite able to see where the commission man gets his troubles. Again flowers change in value from day to day, and the prices given in our market reports can only be approximate even with the best of care.

The Need of Printed Letter Heads.

ED. AMERICAN FLORIST:—

We have received a large number of replies to advertisement of Baronne Rothschild violets, on paper with no printed heading, and with signatures or addresses so carelessly written that we find it impossible to decipher the same. Probably the signatures look plain, possibly "pretty," to the writers, but to a stranger they are quite the opposite. When will florists learn to use printed stationery? F. W. FLETCHER CO.

Auburndale, Mass.

Wholesale Prices to Amateurs.

ED. AMERICAN FLORIST:—

We have just located in central Illinois a case of a wealthy private amateur buyer of horticultural stock, seeds, plants and bulbs, who has taken the great pains (!) to print for himself a letter head with his name and the words "flower and nursery stock," by which stationery, in writing to wholesale houses, he thinks evidently to secure wholesale or florist rates.

We for some years have been making it our rule that people of this class who are trying to secure our goods at wholesale prices, shall state to us that they are buying our stock to sell again at a profit. When we submitted this proposition to the above mentioned party he promptly advised us that we need not send any catalogues but that he could place his business with one of the best firms in the United States who wanted all he could give them at wholesale prices.

We believe it would not be out of line for the secretary or some committee of the Society of American Florists to compile and publish a list of private buyers (and we suspect there are a number of such), who are securing goods at whole-

sale prices and distributing them in small lots to their friends at cost, to the material injury of the regular trade of florists and nurserymen in local cities.
VAUGHAN'S SEED STORE.

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibition, le Jardin des Tuileries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

Meetings Next Week.

Baltimore, Md., February 8, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange Hall, St. Paul and Franklin streets.

Boston, Mass., February 13, 11 a. m.—Massachusetts Horticultural Society, Horticultural Hall, 300 Massachusetts avenue. Address on "Plant Breeding," by Prof. Herbert J. Webber, Ithaca, N. Y.

Butte, Mont., February 12.—Montana Florists' Club, Columbia Gardens.

Chicago, February 10.—Gardeners' and Florists' Union No. 10615, 10-12 Clark street.

Cincinnati, O., February 13, 8 p. m.—Cincinnati Florists' Society, Jabez Elliott Flower Market.

Cleveland, O., February 15, 7:30 p. m.—Cleveland Florists' Club, Progress Hall, 2610 Detroit street.

Detroit, Mich., February 15, 8 p. m.—Detroit Florists' Club, Cowie building.

Davenport, Ia., February 11.—Tri-City Florists' Club.

Hartford, Conn., February 12.—The Connecticut Horticultural Society, County building.

Madison, N. J., February 10, 8 p. m.—Morris County Gardeners' and Florists' Society, Masonic hall.

New York, February 8, 7:30 p. m.—New York Florists' Club, Grand Opera House building.

New York, February 10, 4:30 p. m.—Horticultural Society of New York, American Institute rooms.

Omaha, Neb., February 11, 8 p. m.—Omaha Florists' Club, City hall.

Rochester, N. Y., February 8, 7:30 p. m.—Rochester Commercial Florists' Association, 24 Stone street.

St. Louis, Mo., February 11, 2 p. m.—St. Louis Florists' Club, Bowman hall, 1023 Locust street.

OBITUARY.

Miss Katherine Sheedy.

Miss Katherine Sheedy, who had charge of Madden's Flower Shop at Jersey City, N. J., died at Flatbush, L. I., January 20, of Bright's disease, after an illness of only four days. Miss Sheedy, who was 33 years of age, had been connected with John Madden's business for the past 10 years, and was very highly thought of by all who came in contact with her. The funeral, which took place from her home in Jersey City, was largely attended by her former associates in the trade. Miss Sheedy was buried in Poughkeepsie, N. Y., where she was born.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—As gardener on private or commercial place; 14 years' greenhouse experience. Key 775, care American Florist.

Situation Wanted—By young man with one years' experience; willing to learn and not afraid to work. Key 771, care American Florist.

Situation Wanted—By first-class grower of roses, carnations and general stock; 22 years' experience; married; references. Address Key 774 care American Florist.

Situation Wanted—By gardener and florist on private place near Chicago; married 12 years' experience; sober and industrious. Address JOHN KAWALEC, 975 S Washtenaw Ave., Chicago.

Situation Wanted—By grower with 12 years' experience in roses, carnations and general stock; best of recommends; age 25, married, please state wages etc. Address JOHN NIERESCHER, 1422 E. Summit, Alliance O.

Situation Wanted—By thoroughly competent grower of roses, carnations, 'mums and general stock, have had 15 years experience; strictly sober and honest; can furnish best of reference. Key 769, care American Florist.

Situation Wanted—Experienced florist; all-around man; 45 years; German, like to have position as working foreman or manager in medium sized commercial establishment. Address E. R., Box 150, R. F. D., R. 1, Fairhaven, Pa.

Situation Wanted—Landscape draughtsman, graduated, good designer, experienced in executing, seeks position where there are chances to promote business; middle west or west preferred. Key A 100, General Delivery, Chicago.

Situation Wanted—By an A No 1 rose grower as foreman on commercial place; 32 years of age; life experience; able to handle help to best advantage; please state wages and full particulars in first letter. Key 772, care American Florist.

Situation Wanted—On a good private or commercial place by a man who understands his business; good grower and manager; best references; can take full charge, or would accept position with promotion in view. Address Key 762, care American Florist.

Situation Wanted—By a sober and all-around florist; 16 years' experience in Denmark, Germany and America. Good grower of all kinds of pot and bedding plants, etc. Competent to take charge of a retail place. Please state wages in first letter. FRED. FOLDEN, 611 Raymond Ave., St. Paul, Minn.

Help Wanted—First class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references, Key 747, care American Florist.

Help Wanted—First-class market gardener, one accustomed to growing vegetables in greenhouses and hotbeds, with some knowledge of carnations and bedding stock, and able to take full charge of 25,000 feet of glass; married man preferred; none but strictly sober person need apply; references. Key 753, care American Florist.

Wanted—German, 35 years of age, 20 years' experience in every line of the trade would like to exchange letters with the widow or daughter of a florist. Key 763, care American Florist.

For Rent—Fifteen acres near large city in Indiana on shares for trucking, small fruits and poultry, to an experienced man with small capital; good river bottom land good five room house, stable and outbuildings, team, wagons and all garden implements furnished; an abundance of water for irrigation; only experienced men with some capital to put in hot beds, help, etc., and understanding intensive methods in truck gardening need apply; write, giving full particulars of experience, family and references. Address Key 765, care American Florist.

For Sale—Established wire design manufacturing business; snap if taken at once. Address Key 722, care American Florist.

For Sale—Some good 3 inch pipe guaranteed sound, 6c foot; several small boilers cheap. W. H. SALTER Rochester N. Y.

For Sale—5000 feet of glass; no competition; can sell more than you can grow at highest price; write for particulars. DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—An old established, first-class retail store with palm houses attached, in Chicago, south side; reason for selling, other business. Key 659, care American Florist.

For Sale—Greenhouse 6,000 feet glass near center of growing town of 7,000 inhabitants in heart of Rocky Mountains; good trade; no competition; price $4,000. J. H. FREEMAN, Salida Colo.

For Sale—A fine wholesale place in eastern state, 20 acres of land, well stocked; carnations a specialty; 20,000 feet of glass, up-to-date in every respect; good reasons for selling. Key 749, care American Florist.

TO LEASE.

Established florists' business in a thriving southern city; 60,000 ft. of glass sale for everything you can grow, house well stocked with roses carnations, lilacs, orchids, ferns, palms, etc., which will be sold at a reasonable figure; large plot now under cultivation suitable for truck gardening also six-room dwelling adjoining same; best of reasons for wishing to lease at a low price. Address **Key 773, care American Florist.**

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,
125-133 W. Superior St. CHICAGO, ILL.

For Sale.

Secondhand Boilers, Tubular and Firebox shapes. Suitable for hot houses and the like where low pressure is required. Let us know what you want, we have it.

RYAN BROS.,
29 N. Clinton St., CHICAGO.

For Sale.

One second hand Hot Water boiler capable of heating 3,500 ft. 4-in. pipe.

Superior Machine & Boiler Works,
125-133 W. Superior St., CHICAGO, ILL.

Position Wanted as Superintendent or Manager.

Man of exceptional ability and broad experience in the production of high grade stock now open for engagement; eleven years in last position as manager of one of the large plants of the country. Correspondence solicited from those looking for a first-class man and where the production, heating, general construction and managing ability will be a factor and appreciated. Address **Key 766, care American Florist.**

FOR SALE.

Established wholesale and retail florist business, consisting of 25,000 feet of glass. This is one of the best places in central New York; everything being nearly new and in first-class condition. Has two boilers either one capable of heating the entire plant. The stock consists of a general line of plants and cut flowers, and is well equipped in every way. Here is your opportunity for a paying business. Come and look the place over and the plant and the books will prove all that I say. Would also consider a proposition to rent.
E. J. BYAM, 408-16 Elm St, Rome, N. Y.

WANTED

March 15th. An experienced, energetic gardener thoroughly acquainted with hardy stock, garden making, grading, trimming, etc. Permanent position to right party. State references and salary.

The Elm City Nursery Co.
NEW HAVEN, CONN.

Toledo, O.

Our club meeting on January 27 was largely attended, the main attraction being exhibits of some of the new carnations. We had asked several introducers and orginators of new varieties to favor us with a few sample flowers of their new wonders, and succeeded in interesting Bassett & Washburn, Chicago, Highland Park Greenhouses, Highland Park, Ill., and W. H. Shumway, Berlin, Conn. The other introducers had no flowers to cut on account of propagating, or did not pay any attention to our inquiry. All were well pleased and we believe that some orders will be the result for the exhibitors.

Thos. Nagee, Harry Heinl and Geo. Bayer were elected as judges, and after a long and careful scrutiny by these three good growers, the score for the three varieties was announced as follows, the scale of the American Carnation Society being used: O. P. Bassett received 85 points, Lucille 80 points, while Edward was not in a condition to be judged, as same arrived in poor condition.

Of our local growers, Krueger Bros. exhibited Sarah Hill and Lawson-Enchantress. Sarah Hill was not near so good as shown by the same growers at our December meeting, Lawson-Enchantress was liked, Emil Kuhnke was awarded the prize for the best 12 red carnations, own seedling. The color was about the same as O. P. Bassett, but was not in it for size or stem.

J. L. Schiller exhibited a few Primula obconica, his specialty, in 4-inch pots; the plants were excellent, measuring almost two feet in diameter with large flower heads, whose individual flowers measured over 1½ inches across. They were of the Arendsi type (gigantea), grown from the originator's strain, the judges commenting very highly on same. This new type of primrose is now of such a high standard and so useful as a cut flower, that it will soon become, in fact is now, indispensable in every retail establishment.

Business has been good with everybody of late and all look hopefully into the future. The Dutch travellers are as thick as weeds, but they are not receiving the orders they used to get, as our growers cannot see the profit any more in bulbs, which would justify them to buy more. They are usually glad to come out even on the end of the season. Of course, we must have a certain amount for variety's sake, but there is always some loss, which cannot be prevented; the bulbs have got to be paid for, whether sold or not.

Little glass will be added this season to the existing establishments, and so far only Schiller contemplates building two propagating houses each 9x125 feet, of which one will be used during part of the year for cyclamens, one of his successful specialties.

SCH.

Dethorning the Cactus.

Twenty tons per acre of the best live-stock forage known is to be produced by the system of "dethorning" the common or desert cactus, says the Washington Times. The cactus is the one thing that will grow practically all over the American desert. It has been supposed to be absolutely worthless, because, while it contains the most valuable combination of nutritive elements, the spines make men and animals avoid it.

But the bright young men of the Department of Agriculture have found a way to subdue it. They propose simply to have the cactus sown in drills, carefully tended, and made to develop a big crop. Then when it is ripe and ready for the harvest, a man with a plumber's blow will walk up and down the rows, blowing its flame over the plants and thereby burning off the prickly spines.

The treatment has been tried out, and is a complete success, it is declared. Cattle and sheep like the cactus when the spines are removed, and this process never fails. The spines singe off just as the pin-feathers come off a spring chicken when it is held in the flame of a burning newspaper. Then the hogs, cattle, or sheep can be turned into the cactus field and will get fat on the expurgated cacti. It is explained that there is so much water in the cactus that livestock fed on it need to drink very little; another vital recommendation for desert farming. If allowed to grow two years before it is harvested the cactus will produce 20 tons to the acre. It doesn't need to be replanted after it has once been eaten off.

Elmira, N. Y.

Lea Compton has resigned his position as shipping clerk with the United States Cut Flower Co. and joined forces with the Compton & Babcock Insurance Co. His place as shipping clerk has been taken by Charley Edgar who was with this firm a couple of years ago. The American Beauty and tea roses are looking fine with prospects of a heavy crop for the month of February. Carnations have been off crop but are coming in again in grand shape. Several thousand carnation cuttings have been potted already and now the boys are busy potting up the first batch of rose cuttings and as this firm only takes the best wood for propagating they will have some nice plants when planting time comes along. X.

NEW BRUNSWICK, N. J.—Sidney Smith, who came to New York a month ago, was found dead in Smith & McNeil's Hotel, January 31, having shot himself. Smith had been employed recently by Freeman Woodbridge and before that by Mary Wilkins Freeman at Metuchen. He had no relatives in this city. Acquaintances knew only that he was well educated, a gardener, and held advanced socialistic views which he was fond of expounding. He avoided any questions dealing with his past. He had been at the hotel three days.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales.....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,
EVERGREEN, ALA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

IF YOU ARE WANTING NICE, CLEAN

Sphagnum Moss

FOR DESIGN WORK,

Place your next order with us. We sell at the following prices. Terms: Cash with order.

Per 1 bale of 5 bbls	$ 1.60
Per 5 bales of 25 bbls	7.25
Per 10 bales of 50 bbls	13.50
Per 1 bale of 7½ bbls	2.25
Per 5 bales of 37½ bbls.	10.00
Per 10 bales of 75 bbls	18.00
Per 1 bale of 10 bbls	3.00
Per 2 bales of 20 bbls	5.50
Per 5 bales of 50 bbls	12.50

Brookville Moss & Peat Co.
BROOKVILLE, NEW JERSEY.

Galax, Ferns, Etc.

New crop, fresh from the patch, prices as follows:

Bronze and Green Galax Leaves...	$0.50 per 1000
Fancy and Dagger Ferns	1.00 per 1000
Green Leucothoe Sprays	2.50 per 1000
Bronze Leucothoe Sprays	4.00 per 1000
Rhododendron Sprays	2.00 per 1000
Mountain Laurel	2.00 per 1000

Discount on large orders. Fifteen years experience enables me to guarantee perfect satisfaction 250 customers now in U. S. Send cash with first order.

J. A. PRITCHARD, Elk Park, N. C.

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.
EVERGREEN ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., **NEW YORK**

Southern Wild Smilax

Price per case of 50 lbs., f. o. b. Evergreen $2.00. Satisfaction guaranteed.

J. A. RUMBLEY, Evergreen, Ala

NEW ROSE WHITE KILLARNEY

We Know You Will Want to Buy White Killarney.

Every live, progressive, up-to-date grower who has seen it is buying it; but when you buy White Killarney, be sure you get the right White Killarney (the Waban variety). When you buy from us you get the variety that has been exhibited and certificated and the one that has attracted such favorable mention. There have been several white sports of Killarney which are very much inferior to the White Killarney that we have been offering and exhibiting—the one that has made the reputation for White Killarney. The superiority of our sport is admitted even by those who have the other sports.

It may seem strange, but the bud of White Killarney is much larger and fuller than the bud of the pink Killarney.

If you are in the vicinity of New York, we should be glad to have you call and see White Killarney growing at our Scarborough range, and you will say at a glance—as everyone who has seen it growing—that it is by far the best white rose that has ever been placed on the market.

It is not only a good winter-flowering rose, but is good the entire year, for which reason it will supersede Bride and Kaiserin, neither of which covers the entire season. In addition to this, it is a splendid shipper. We have shipped flowers as far as Dallas, Texas, and they have reached destination in perfect order. In confirmation of this statement, we take pleasure in reproducing a letter just received from Mr. Willis N. Rudd, Secretary of the Society of American Florists, dated January 18th, in which he writes as follows:

"DEAR MR. PIERSON:—I cannot refrain from writing you and expressing my admiration for the White Killarney as shown at Chicago on Thursday. It is an exquisitely beautiful thing and attracted much attention. I took half the blooms home with me, and they were finer on Saturday than they were at the show. The record is that these blooms were shipped from Tarrytown, staged and exhibited during the afternoon. They were then carelessly wrapped up in a box, and remained in that box until one o'clock Friday morning, at which time I reached home; improved in quality up to Saturday, and were in fairly presentable condition on Sunday.

"In addition to being the most beautiful white rose of its class which I have seen, this demonstrates its splendid keeping and shipping qualities. W. N. RUDD."

We were awarded Silver Cup at National Flower Show, Chicago, for best new rose with White Killarney.

We have a fine stock of White Killarney but, owing to the large number of orders that are constantly being booked, if you want early delivery, it will be wise to place your order before long. Better do it now while you think of it. You will regret it if you do not buy it this season in quantity, and you will not regret it if you do. It is the best new rose that has been introduced in years.

Strong Plants, 2 1-4 inch pots, own roots, $30.00 per 100; 250 for $70.00; 500 for $125.00; 1000 for $250.00. Grafted plants, $5 per 100 additional

F. R. PIERSON CO., Tarrytown-on-Hudson, New York.

Violets for Valentine's

WE ARE HEADQUARTERS. We will have the best in large supply. Get your order in early.

White Lilac and Bridal Wreath Ready now.

Killarney We are without doubt getting in the finest long, stiff stem Killarney Roses coming into the Chicago market.

Freesias Finest in Chicago; $4.00 per 100.

For St. Valentine's Day: Heart Shaped Violet Boxes and a full line of Florists' and Growers' Supplies.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

MARKET EASY.

The market, except possibly for roses, is easy. Carnations are coming in in fine quality but there is hardly demand sufficient to clear off the stock. American Beauty roses are not quite so plentiful as they were, but still more than enough to go around. Bride roses are much in demand for funeral work. Bridesmaid roses are coming a bit more freely, but Killarney is practically off crop with most of the growers, and there is none too much Richmond seen. Lilies are coming in freely and callas are more than plentiful. Bulbous flowers have become a staple article of the market, all kinds and all colors now being seen. Very fine stock is the rule in this line, Mignonette, freesia, etc., are all plentiful. Violets have been a glut on the market with very little outlet. The fore part of last week was not so bad, but during the latter part of the week complaint of wholesalers about the slow sale of violets was general.

NOTES.

Fred Lautenslager of the Kroeschell Bros. Co. reports having booked orders for two of that firm's largest boilers. Wm. Kroeschell says inquiries are coming in very freely and suggests that orders for greenhouse material in general should be placed now as prices are apt to go higher and orders can now be booked at present prices for future delivery.

James Bombenger will tear down his present place this summer and move around the corner to 6425-29 Woodlawn avenue, where he will erect a fine modern retail store, 18x30 feet, and about 10,000 square feet of glass for his decorative and flowering stock. Two new boilers will be installed.

The E. F. Winterson Co. has a large supply of fancy flower decorated heart shaped violet boxes, in two sizes, for 100 and 200 violets respectively. On Monday this firm reported receiving a shipment of 250,000 leucothoe sprays.

The A. L. Randall Co. is now receiving white lilac, one of the specialties of Emil Buettner, the Park Ridge grower. This firm also reports a remarkable demand for cut orchids, especially cattleyas and cypripediums.

B. Eschner, of M. Rice & Co., New York, has been stopping for several days at the Great Northern hotel with an extensive line of samples, including some very attractive seasonable novelties.

Chicago Florists' Club meeting Thursday evening this week at 7:30 o'clock at the Union restaurant, 111 Randolph street, Chicago. The recently elected officers will be installed.

The old greenhouse range of Richard Gloede in Evanston which was sold to the sanitary district commission has been acquired by Joseph Craig.

The western mail was much delayed last week by the storm, many letters being received by wholesalers on Monday, they should have had before.

The firm of Bassett & Washburn have decided to remain where they are having signed a lease for another year.

The Poehlmann Bros. Co. is now cutting some extra choice long stemmed Richmond roses.

There will be a meeting of the experiment station advisory board at Urbana, February 5.

Zech & Mann are now receiving a choice and extensive line of bulbous flowers.

The J. B. Deamud Co. is now receiving fine yellow tulips and single jonquils.

Geo. Reinberg is cutting some choice Cattleya Trianæ.

E. C. Amling has been showing Rhea Reid roses.

Visitors: Joseph Heacock, Wyncote, Pa.; B. Eschner, of M. Rice & Co., and Sidney Wertheimer, New York; Martin Reukauf, of H. Bayersdorfer, Philadelphia.

Memphis, Tenn.

An unusually severe spell of weather accompanied by high winds (64 miles an hour) visited us January 27-28-29, doing much damage by blowing out glass, tearing down awnings, signs, smokestacks, etc. The thermometer showed the unusual record of 10° above zero. No plants were injured inside of the glass structures in this section that we have heard of, but all boilers and heating apparatus were compelled to put forth all their energy to keep up anything like a normal temperature. All our greenhouse structures in this section are not built to keep out such a searching cold wind, and low temperatures were the order while the wind lasted, which was three full days and nights. In the open borders on account of the very mild winter so far, tea roses were breaking at all their eyes, and the new growths were one-half inch long. Forsythias were in full bloom, and our own yellow jasmine was a shower of gold. The peach tree buds were swelling, and jonquils and narcissi were showing color but they have withered away and some of us are wondering what the elements will show us next. Reports from the market gardeners say that this cold snap has seriously damaged the stock of sweet potato seed in the cellars. As this city is a center for sweet potato slips, the price will probably be higher this spring. November sown cabbage plants were not damaged where covered with sash. The florists have had a better month than in January, 1908. The catalogue plant and seed trade opened up earlier on account of mild weather, but no doubt it will slack up until another mild season comes along. No new additions planned for the coming year, except one that was started last year, a $50,000 new plant that got cold feet and has not as yet got warm again. Some of the stores here are buying from the new plant at Columbus, Miss., at prices somewhat lower than Chicago stock, but as yet the variety is not tempting enough to pay express from Columbus for one package and another from Chicago. The express companies already have more than their share of the profits. If the Chicago wholesalers will go out of the Heinz pickling works and send fresh stock, Chicago will still be in the lead and the others in the class of the "also ran."

None of the local florists were in Indianapolis, but a goodly number are making plans to go to Cincinnati in August. If possible an effort will be made to get up a bowling team, as we have several crackerjacks among the craft here.

H.

JOLIET, ILL.—Albert C. Rott had a fine window decoration for McKinley day and sold over 4,000 carnations.

LAKE FOREST, ILL.—At the meeting of the Horticultural Society held on January 27, it was decided to hold a flower and vegetable show this coming summer, about the second or third week in July, and according to the interest taken by both employers and gardeners it will, to all appearances, be a greater success than any show ever held in this neighborhood.—J.

Chas. W. McKellar

51 Wabash Ave CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

WEILAND-AND-RISCH

Wholesale Growers and Shippers of

CUT FLOWERS

50 Wabash Ave., CHICAGO.

'Phone Central 879.

Write for our wholesale price list.

WHOLESALE FLORISTS

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

My plan for saving you money in your buying would interest you. If you are a buyer of cut flowers let me hear from you.

21 Wabash Avenue, CHICAGO.

E. F. Winterson Co.

45-47-49 Wabash Ave, CHICAGO.
Long Distance Phone, Central 6004.

Wholesale Cut Flowers and Florists' Supplies

All cut flowers in season at Chicago market quotations

Write for our NEW SUPPLY CATALOGUE. It will interest you.

Consignments of CUT FLOWERS Solicited.

"THE BUSIEST HOUSE IN CHICAGO"

Everything in the Cut Flower line

Can be had by ordering from us

J. B. Deamud Co.
51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

SEND FOR PRICE LIST.
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO Feb. 3.

Roses	Beauty, extra select ..	6 00
"	" 36 in	5 00
"	" 30 in	4 00
"	" 20 to 24 in.....	2 50@ 3 00
"	" 15 to 18 in.....	1 50@ 2 00
"	" 12 in	1 00
"	" Short	75
		Per 100
"	Bride, Bridesmaid select..	10 00@12 00
"	" medium	6 00@ 8 00
"	Chatenay, select	10 00@12 00
"	" medium	6 00@ 8 00
"	Golden Gate, Uncle John..	6 00@10 00
"	Kate Moulton.....	6 00@15 00
"	Killarney, select	12 00@15 00
"	" medium	8 00@10 00
"	Mrs. Marshall Field, select	12 00@15 00
"	" medium	6 00@10 00
"	Perle	6 00@12 00
"	Richmond extra select....	12 00@15 00
"	" medium.....	8 00@10 00
"	" short	6 00
Carnations		2 00@ 4 00
Callas	....per doz.	2 00@2 50
Cattleyas.....	($9.00 per doz.)	60 00@75 00
Daisies.....		50@ 2 00
Freesias		3 00@ 5 00
Gardenias.....	..per doz	6 00
Hyacinths, Roman.....		3 00@ 4 00
Lilium Harrisii	..per doz.	2 00 15 00
Lily of the Valley		3 00@ 4 00
Narcissus, Paper White.....		4 00
Pansies.....		1 50@ 2 00
Stevia		1 00@ 2 00
Sweet Peas.....		75@ 1 50
Tulips.....		3 00@ 4 00
Violets, single		75@ 1 50
" double		75@ 1 50
Adiantum ,, ...		75@ 1 00
Asparagus Plum, strings..each		50
" sprays		2 00@ 4 00
" Sprengeri.....		2 00@ 4 00
Boxwood	per bunch	35
Ferns, fancy.....	per 1000	2 00
Galax, green per 100	15; per 1000	1 00
" bronze per 100	15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax, Wild...	per 50 lb. case	5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO

L. D. 'Phones Central 1978 and 1977.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

CARNATIONS

Also Harrisii, Callas, Jonquils, Sweet Peas, Green Goods

In fact we have the goods—everything in season and occasionally things out of season. We can supply it if it is to be had on the Chicago market. Quality and service count too. We're growing; our business is increasing and you know we'll do every right thing in our power to make and keep a good customer.

Let Us Have a Trial Order Right Now

ZECH & MANN, Wholesale Florists, Long Distance Phone Central 3284 51 Wabash Avenue, **Chicago**

St. Louis.

ROSES SCARCE.

The first part of the week was warm and springlike, but Friday a great change came. A blizzard, the most severe in years, and zero weather were with us Friday, Saturday and Sunday. Quite a number of carnations were sold on McKinley's birthday; many more would have been sold but for a blinding snowstorm, accompanied with a terrific wind. Violets have been plentiful all week. Roses continue scarce, but carnations are holding up well. Fancy ferns are now selling at $2 per 1,000.

NOTES.

The Florists' Club has mailed a circular to its members and their friends announcing the regular meeting of the club at the Bowman building, Thursday afternoon at 2 p. m. The club will hold its yearly carnation show to which all interested are invited and which will be especially interesting to growers. At 5 o'clock the committee have arranged for an entertainment and smoker at a nearby café. Everyone is cautioned to inform their folks that they will not be home for supper and a good time will be given to all.

We regret the accident to Will Osseck of the firm of W. C. Smith & Co. Will went down into the cellar, stumbled over a box and sprained his ankle. He is confined to his room and carefully nursed by his good and faithful wife. We hope soon to see him in harness again.

Monday several of the retailers were busy at the opening of Penny & Gentiles, dry goods emporium. Several thousand carnations were given away to the ladies.

Dr. William Trelease will lecture next Tuesday at 8 o'clock at the Second Baptist church on Henry Shaw and the Missouri Botanical Garden.

Phil J. Goebel, Jr., had a portion of the roof of his house blown off by the gale on Friday.

Chas. Murray has opened up a store at 4450 Easton avenue, a good locality.

W. F.

Richmond, Ind.

A great many of the carnation men visited this city after the Indianapolis convention, calling at the establishments where their favorite flower is a specialty. At the E. G. Hill Co.'s new plant there was much to be seen of interest in the way of new seedlings, of which there are many promising varieties, running principally to scarlets and reds. The construction and arrangement of the new greenhouses at this establishment proved hardly less interesting to the visitors than the contents, and Mr. Hill and his associates were called upon to answer a great variety of questions, many of them very puzzling.

Joe Hill is very much disappointed with the concrete benches, and it will not be surprising if this is replaced with other material at an early date. Most of the experts who saw these benches think the blocks are too thick and wide, and that the interstices for drainage should be more numerous and not so large. It may be stated that the blocks in the bottom of these benches are about 16 inches wide and three inches thick, and the drainage interstices between them about 1¼ inches wide.

Chas. Knopf showed the visitors as fine a lot of carnations as may be found anywhere, and this condition of high culture applies to the stock in the cutting benches as well as to the flowering plants. Carnations Mrs. Chas. Knopf and Ruby were in fine condition, but another of this firm's novelties, Admiration, proved the greatest attraction. Mr. Knopf grows roses fully as well as carnations, and the house of Richmond at his place was a sight worth seeing.

E. T. Grave has Carnation May Day and a number of standard varieties in excellent condition. Mr. Grave booked quite a number of orders for his novelty.

The E. G. Hill Co. will move two of its old greenhouses and rebuild them at the new plant this season.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Greenhouses, NEW CASTLE, IND.

Louisville.

TRADE UNUSUALLY GOOD.

The conditions of business the past week were very satisfactory, stock in nearly every line having a very heavy demand. Roses of good quality were in fair supply and were cleaned up. Carnations of the best quality sold unusually well and were in good supply. The cheaper grade was hard to move. There were not very many carnations used this year for McKinley day, probably owing to the unusually bad day we had. Lily of the valley and violets had a good demand and the supply was fair. Bulbous stock is in good supply and finds a satisfactory demand. Green goods are a little scarce just at present but will soon be plentiful again.

NOTES.

The growers are now burning a good share of their profits as the thermometer is staying around zero. It was difficult to keep the houses warm owing to the strong, cold wind.

From reports, everyone was well satisfied with the recent convention at Indianapolis. Quite a number attended from this city.

The stores had very attractive displays for McKinley day.

F. L. S.

PETER REINBERG,

35 Randolph Street, CHICAGO
Phone Central 2846.

Largest Grower in the world ....

Will Take Best Care of Every Order.

1,800,000 Feet of Glass.

PRICE LIST:

Carnations $2.20 to $3.00 per 100

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$5 00
36-inch stems	4 00
30-inch stems	3 00
24-inch stems	2 50
20-inch stems	2 00
15-inch stems	1 50
12-inch stems	1 00
Short stems	75

	Per 100
MRS. MARSHALL FIELD	
Extra select	$10 00 to $12 00
Medium	5 00 to 8 00
RICHMOND and **KILLARNEY**	
Select	10 00 to 12 00
Medium	5 00 to 8 00
GOLDEN GATE	4 00 to 8 00
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and **BRIDESMAID**	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
VIOLETS	1 00 to 1 50
ADIANTUM	1 00 to 1 50
ASPARAGUS	50c to 75c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

LOS GATOS, CALIF.—George Guy Payne has been declared a bankrupt.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

— PRICE LIST —

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75

	Per 100	
Bridesmaid and Bride, fancy	$ 6 00 to	$ 8 00
Good		4 00
Killarney, fancy	6 00 to	8 00
Good		4 00
Chatenay, fancy	$ 6 00 to	$ 8 00
Good		4 00
Mrs. Jardine, fancy	6 00 to	8 00
Good		4 00
Kate Moulton, fancy	6 00 to	8 00
Good		4 00
Richmond, fancy	6 00 to	8 00
Good		4 00
Uncle John, fancy	6 00 to	8 00
Good		4 00
Perle	6 00 to	8 00

ROSES, Our Selection, $5.00 per 100

Carnations,	Per 100	
Fancy		$ 3 00
Good	$ 1 50 to	2 00

Indianapolis.

CONVENTION ECHOES.

The carnation meeting was closely followed by the worst storm of the season. With the mercury close to zero and the wind blowing nearly 40 miles an hour, things continued interesting, although not pleasant. The only damage reported was a few lights blown out of the gable end of A. Wiegand & Sons' house. Repairs were made before serious damage resulted.

Misses Elsa and Olga Bertermann entertained their visiting fellow members of the Ladies' Society of American Florists at cards in the palm garden of the German house during the carnation meeting.

Eugene Dailledonze and wife, J. A. Valentine and Fred Lautenschlager were the last of our guests to leave; the latter secured several good orders for boilers during the convention.

It is painful to report that "Handsome Harry Balsley" was not recognized by many of his numerous friends. A mustache more or less makes all the difference in the world.

W. W. Coles, Kokomo, is looking for a site suitable for a wholesale cut flower establishment, as one of his sons wishes to embark in the business.

Bertermann's yellow carnation, James Whitcomb Riley, and Baur & Smith's white, Shasta attracted many interested visitors.

Bertermann Bros. Co. report a heavy call for jonquils this season. J.

Mt. Sterling, Ky.

The season thus far, excepting Christmas, was not very satisfactory, but since January 1 there has been a gradual increase in sales and prices, and we are looking forward to a brisk spring trade. The Christmas trade was more than double that of last season.

Graser & Humphries have opened a salesroom and office at 45 West Main street, where they find a ready sale for pot plants and cut flowers. They grow 6,000 carnations for winter bloom. Besides this, they force bulbous stock, Lilium longiflorum, callas and a few roses. They have completely remodeled an old ramshackle place and added almost double the amount of glass.

PORTCHESTER, N. Y.—J. Piorkowsky, the proprietor of the Rosery, on South Main street, has recently secured the lease of the two greenhouses located on the Maple Terrace property of Mrs. S. Rodriguez, on Grace Church street.

Geraniums FOR SALE

S. A. Nutt, crimson, Jean Viaud, pink and and Rose Geraniums, 2¼-in. pots, $2.50 per 100

Buffalo Cut Flower Co.,

495 WASHINGTON ST., BUFFALO, N. Y.

Long Distance Phones:
Bell Seneca 3762. Frontier 3607

Wholesale Flower Markets

ST. LOUIS, Feb. 3.

Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 2 50
" " short stems	50@ 1 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	5 00@10 00
" Ivory	4 00@ 8 00
" Killarney	6 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	5 00@ 8 00
" Richmond	5 00@ 8 00
" Alice Roosevelt	6 00@10 00
Carnations, common	1 50@ 2 00
" fancy	2 50@ 3 00
Freesia	1 50@ 2 00
Hyacinths Romans	1 50@ 2 00
Lily of the Valley	3 00
Narcissus, Paper White	2 00@ 2 50
Violets	40@ 60
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 00	
Smilax	12 50

CINCINNATI, Feb. 3.

Roses, Beauty, $1 00@3 6 00	
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Hyacinths, Roman	2 00@ 3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	3 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

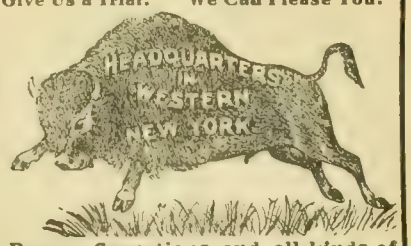
BUFFALO, Feb. 3.

Roses, Beauty, special	6 00
" " fancy	4 00
" " shorter	2 00@ 3 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	2 00@ 3 00
Callas	8 00@10 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	3 00@ 5 00
Narcissus	2 00@ 3 00
Stevia	75@ 1 25
Violets	75@ 1 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	1 50
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00
Smilax Wild, per case	3 00@ 5 50

MILWAUKEE, Feb. 3.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	2 00@ 4 00
Hyacinths, Roman	2 00
Lilium Giganteum	10 00@12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	2 00@ 3 00
Sweet Peas	50@ 75
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	25 35
" Sprengeri	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz.	1 50

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

THE
J. M. McCullough's Sons Co.
Wholesale Commission Florists.
CONSIGNMENTS SOLICITED.
Special attention given to Shipping Orders
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Holton & Hunkel Co.,
WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

RICE BROTHERS
Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

CHEHALIS, WASH.—The Wilbra Nursery Co. has just built a new greenhouse.

New York.

STOCK ON THE SHORT SIDE.

King Winter, with his panoply of snow and ice, has camped right here on Manhattan island. His sudden arrival has made hard work for the street department, the traffic police squad, and disarranged the marcelle waves of the pretty girls. Thus far, the cut flower business has not suffered much. While the business of last week cannot be said to have been heavy, there was considerable doing with a tendency toward shortage in good roses. If business had been rushing there would have been almost a dearth. As it was, special American Beauty went up 75 cents with a prospect, at this writing, of further advance. Good roses of all varieties seem to be off crop and with present weather conditions, we may yet see high prices. However, from the view point of the retailers, prices are already high enough, but of course, it makes a difference whose ox is gored. As noted last week, there is no surplus of bulbous stock, it being sometimes hard for the buyers to find as many good tulips as they want, but as a rule everybody gets what they are looking for, and it must be acknowledged that a light supply is better than a surplus. The only stocks that can be classed as really plentiful, are carnations and violets. McKinley day, January 29, did not seem to cause any particular flurry in carnations, though it was better than last year, when dealers claimed that carnation sales were not up to the average.

February 1.—This was undoubtedly the coldest morning of the winter, regardless of the opinions of the weather sharps. Arrivals were light, some of them being frozen. Though the scarcity of good roses is pushing up the price, there is but little change in other stocks. There is no great surplus of anything, and if the demand was anywhere above normal, prices would soar. Latest advices say special American Beauty roses are selling at $1 each; Killarney at 25 cents and a general advance in all other leading stocks.

NOTES.

It is announced that the annual dinner of the Florists' Club has been postponed from February 20 to 27. As previously announced, it will be held at Shanley's, which is sufficient guarantee that it will be a first class spread. The services of an excellent orchestra has been secured and eloquent speakers, under the spell of beautiful women and choice blossoms, are expected to make a new record in oratory.

Through the vigilance of Traendly & Schenck and their employes, a series of petty stealings of flowers was brought to a close on the morning of January 26. On that date a man who has been under suspicion for a long time, was caught "with the goods," several bunches of lily of the valley, under his coat. He was immediately arrested and will undoubtedly get the limit.

Mrs. Coddington, the mother of L. B. Coddington, a well known rose grower of Murray Hill, N. J., died on January 31. What may appear as an unusual coincidence, was that, on the same date under the same roof, a child was born to Mrs. L. B. Coddington.

It is reported that J. J. Brozat of Bloomfield, N. Y., suffered considerable damage from fire in his range, on the night of January 31. Mr. Brozat is well and favorably known in the wholesale district of this city.

Wm. Mortimer, formerly buyer for the late W. H. Traendly and later with Chas. Austin on Thirtieth street has opened a retail store in the old Traendly place, Seventeenth street and Sixth avenue.

Another wholesale store seems assured at 50 W. Twenty-eighth street. Kessler Bros. being actively engaged in fitting up the storeroom directly over Geo. Cotsonas & Co., dealers in green.

Robert Craig and Julius Roehrs, Sr., sailed for Cuba January 29. No two men connected with the business could have more good wishes follow them.

New York and N. J. Plant Growers Ass'n

FIRST ANNUAL BANQUET.

The first annual banquet of the New York and New Jersey Plant Growers Association was held at the Hotel St. Denis, January 28. The attendance was very large. The tables were prettily and tastefully decorated. Many of the growers were accompanied by their lady friends, and at 7 o'clock the company took their seats. Much credit should be given the house committee for the banquet set before the guests. At the close of the banquet Julius Roehrs, of Rutherford, N. J., president of the association introduced F. L. Atkins of Bobbink & Atkins of Rutherford, N. J., as toastmaster.

The toastmaster outlined the growth of the association since its founding. It has at the present time about 30 members, and is continually growing. He said that the main object of the organization was for the growers to teach each other and outsiders how to grow plants and grow them well. He then called upon the only ex-president, Anton Schultheis, for the first speech. The speaker urged every member to do all in his power to bring in new members. He expressed his sincere regret that Julius Roehrs, Sr., was unable to be with them on this occasion, on account of illness. Mr. Roehrs has left for Cuba for a trip to benefit his health.

The second speaker of the evening, Robt. Craig, Sr., Philadelphia, in opening, said that he believed any body of organized men could do much more to forward any particular competition than an individual. He said that through P. O'Mara much had been done toward lowering express rates. He said that man's success depends much on himself, but after he has done all in his power as an individual, much more can be accomplished by an organization. After a most gallant tribute to the ladies, he said that he had been coming to New York for more than 35 years, and although he did not at the present time know nearly as many growers as he did a few years ago, he always felt at home among the men of the plant industry in New York. He gave an amusing account of his trip to New York, when a young man, and how he was taken in by a green goods man. The speaker urged the younger men of the trade not to be discouraged if they had but little to start business on, for the men who have accomplished most have started with nothing. He paid a tribute to Peter Henderson, the greatest of plant growers and to John Henderson, the greatest of cut flower growers.

The toastmaster then introduced Patrick O'Mara, who rose to the occasion with his usual Irish wit and eloquence. Seeing Robert Craig drink a glass of water, he raised his glass and said, "I drink water with Craig of Philadelphia. You know they have no good water in Philadelphia. They tell me it is so thick that a man cannot sink in it. Philadelphia, you know, is that suburb of New York where they sleep all the time, except when they come to New York to get their eyes opened by green goods men. Philadelphia, however, wakes up New York when it comes to plant sales. When it comes down to business, they are not so slow after all in Philadelphia." The speaker thought that the meeting had a very serious purpose, namely, to form a thorough organization.

The speaker felt that no man on earth had such a big heart as the man who cultivates growing plants. He is compelled to keep his eyes continually upon these growing things, and this gives him a sympathetic feeling for everything living. The Society of Plant Growers of New York and New Jersey is not by any means a trust, but is a mutual benefit organization, where mutual benefit of the highest type is shown. A good example of men organized for the advancement of their interests, is the Society of American Florists. Since the founding of this society tremendous advance has been made by the members in intelligence in floriculture. On questions of policy men of the S. A. F. stand foremost. They are possibly outranked by other men in wealth, but not in brains. The trade press of today has taken a decided step forward in placing before the public the true condition of the industry. The press is much freer today in imparting knowledge to the florists than it was some years ago. More humanitarianism is shown by them than by any other press representatives in the country.

The Society of American Florists may be likened to a nation, which settles broad questions of policy, and the local organizations, such as the Plant Growers of New York and Jersey to a state which settles municipal questions. Out of the members of the S. A. F. have grown these smaller organizations. In closing, the speaker expressed his great pleasure at being privileged to be present at the banquet, and to see so many of the ladies present. He said that a woman was man's conscience, and that no man had a conscience, who has no woman. He thought more benefit was derived from getting together and breaking bread over the same board, than could be derived in any other way.

The toastmaster then introduced President Hallock of the Florists' Club. In referring to the fairer sex the speaker said that the hand that rocks the cradle, rules the world, and usually rules the florists. The speaker took it upon himself to go back before the Christian era to show what our ancestors did to advance the interest of the public in floriculture. Homer felt it his duty to express the beauty and significance of flowers. Cicero also felt in duty bound to call attention to this same thing. If these ancient writers thought this necessary, how much more is it necessary for us to call the attention of our people to such things. He called the plant growers of New York and New Jersey the genesis and aborigines of horticulture. In this section specialists have probably made more money than the smaller growers. The departure from small plant growing is becoming alarming. Our national flower shows need exhibits from hundreds of growers of small plants. More of the general showing from all growers, whether large or small should be encouraged.

At this point the toastmaster called attention to the fact that the organization had the honor of having a woman member, who was present at the banquet. Miss Mills felt that she did not care to make a speech, but for her part had contributed Japanese vases to be given to each of the ladies. The Julius Roehrs Co. of Rutherford, N. J., furnished the orchids which had been placed in these vases on the tables. With the singing of the Star Spangled Banner, Auld Lang Syne, America, and Die Wacht Am Rhine, the party broke up.

Much credit should be given to A. L. Miller, John Scott and Herman Schoeltzel, members of the dinner committee. The banquet was a decided success from both a business and social standpoint. Under the leadership of such men as President Julius Roehrs, Vice President A. L. Miller, Secretary W. H. Siebrecht, Jr., and Treasurer Herman Steinhoff, the plant growers of New York and New Jersey should look forward to a most prosperous coming year.

SAGINAW, MICH.—Carl Roethke, who is still at Mt. Clemens undergoing treatment for rheumatism, is not making as good progress as his friends hoped for.

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I can send to New York City, on short notice, White Lilac, Yellow Daisies, Mignonette, Single Daffodils, Tulips, all colors, etc. These flowers are all A No. 1 and shipped at Philadelphia prices.

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Wholesale Flower Markets

NEW YORK, Feb. 3.

	Per 100
Roses, Beauty, special	60 00@100 00
" " fancy	40 00@50 00
" " extra	30 00@35 00
" " No 1	15 00@20 00
" " No. 2	5 00@ 8 00
" " No. 3	2 00
" Bride, Bridesmaid, extra and special	8 00@12 00
" No. 1	5 00@ 6 00
" No. 2	2 00
" Killarney, special	12 00@25 00
" extra	10 00
" Richmond	2 00@20 00
Carnations fancy and special	4 00@ 6 00
" common	1 00@ 1 50
Callas, per doz.	75@ 1 00
Cattleyas	20 00@40 00
Freesias, per bunch	25
Gardenias, per doz.	1 00@ 4 00
Hyacinths	50@ 2 00
Lilac, Cut, per bunch	75@ 1 25
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	1 50@ 2 50
Mignonette, per doz.	50@ 75
Narcissus (Paper White)	1 50@ 2 00
" (Yellow)	2 00@ 4 00
Stevia, per bunch	15
Sweet Peas, per doz bunches	1 00@ 2 00
Tulips	1 00@ 3 50
Violets	25@ 50
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

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Opposite N. Y. Cut Flower Co.

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American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising

V. S. DORVAL, Secretary.

Philadelphia.

TRADE FAIR.

Business is moving quietly along, a fair amount doing but no extra demand to speak of. The commission houses report a fairly good shipping trade, particularly for the higher grades in all lines. Stock, particularly roses, is scarce, shipments from all growers alike coming in very light. It is said that this condition will continue for a week or 10 days, when the sun, which is daily getting stronger, will bring them forward. The scarcity of short stock is more noticeable than in the better grades. Carnations are in good demand and appear to clean up daily at fair prices. Some very good stock is now coming in. Spring flowers, such as tulips and daffodils, are becoming much more plentiful as are also freesia and sweet peas, all of which help to relieve the situation. Orchids are more plentiful than at any time this season, and the price has softened a trifle; $5 is the price per dozen for cattleyas, with 50 cents straight for the pick of the stock. Azaleas, primulas and bulbous stock in pans and baskets help to make the store windows attractive. Some nicely arranged baskets of ferns and plants of Azalea mollis with their brilliant orange shades were the feature of Pennock Bros. window the past week.

FLORISTS' CLUB MEETING.

The February meeting of the Florists' Club was well attended; carnations were the feature, but the expectations of the members in seeing some of the new ones was not realized as none of these of which great things are expected were to be seen. Messrs. Stroud, Kleinheinz and Campbell Bros. had vases of well grown standard varieties. Batchelor staged a yellow Cineraria stellata, and W. F. Lecroix a vase of extra fine lilac. President A. M. Herr, of the American Carnation Society, read a paper on the new varieties and gave a general account of the recent carnation exhibition and convention which was very interesting. The topic for next meeting is to be the gardenia on the growing of which Wm. Kleinheinz will read a paper. An inter-city bowling contest is to be held between the clubs of Washington, Baltimore and Philadelphia, the first match to be played in Baltimore on February 11.

NOTES.

The local contingent of the delegates to the carnation convention returned on Saturday last and were of one accord that it was the finest exhibition of the kind they had ever seen. Joseph Heacock, who exhibited a vase of his seedling, Dorothy Gordon, said that although cut nearly two days before they were staged they were better the second day of the show than on the first and that this was the case with many other varieties. S. S. Pennock also spoke in the same strain. As a judge he has had to examine many of the entries very closely and said that the general excellence of the exhibits was very marked. Of the novelties he said the new yellow, J. Whitcomb Riley, was very distinct and likely, if a good bloomer, to be much in demand. Edward Stroud is quite elated over winning first prize for his vase of 100 Lady Bountiful over a lot of good stock which was brought a comparatively short distance while his was shipped so far.

C. H. Turner, the genial representative of the King Construction Co., Tonawanda, N. Y., has been canvassing this neighborhood the past week. He says that the growers all report much better results than last season and he looks for quite an addition to the glass area of the wide awake operators in the near future. Dennis Connor, the local representative of the Lord & Burnham Co., is also optimistic and has several important jobs in embryo, as it were. He says the addition for A. Harvey & Son to be erected this spring is 43x250 feet of iron frame construction, an up-to-date house in every respect. Mr. Connor also reports having a contract for a house 21x150 feet for Alphonse Pericot at Collingdale.

John Langford, the colored florist formerly of Thirteenth street below Market, died on Saturday last. Deceased at one time did quite a business at this stand, which he conducted for over 15 years. He commenced business selling flowers on the street for Mrs. Karl Muller and afterwards for himself and then took the store. For the past few years he peddled flowers on Chestnut street, his specialty being open American Beauty roses.

Wm. Graham has taken a position with the Habermehls, where he is to have entire charge of their decorating. Mr. Graham is a floral artist in the full sense of the word and Messrs. Habermehl are to be congratulated on being able to obtain his services. The Graham store and greenhouses in Germantown are for sale and should prove a valuable place for any one wishing to take up the retail end of the business.

The Leo Niessen Co. say it is now receiving some of the finest cattleyas it ever handled. The blooms are certainly extraordinary for size and color. American Beauty roses and carnations have been in great demand the past week; the shipments being light they are ordered as fast as they arrive.

W. & H. J. Evans of Second and Bristol streets, had a tussle with a boiler on Sunday night last; some of the tubes gave out on this, the coldest night of the winter, and it was with extreme difficulty that they managed to keep from being frozen out.

Joseph Heacock, his son James W. Heacock, and foreman Robert Jamison, visited Chicago and took in some of the large rose and carnation growers; they were much pleased with the enterprise that was everywhere apparent.

Wm. McKissick & Bros. say they have business for all the stock coming in, particularly for all of the special class, which appears to be all ordered ahead. They say they want to see flowers more plentiful.

Herbert Steinmetz of Eighth and Arch streets, has to retire on account of poor health, and offers his business for sale. Here is a good opening for an energetic man. K.

Boston.

TRADE IMPROVING.

There has been an improvement in business, well distributed and completing the most lively week of the season. The market is undergoing a complete reaction and a decided shortage in every line, except violets, has boosted prices to the limit. Our winter is in full blast with zero weather prevailing throughout New England. Snow has fallen to the extent of eight inches in the suburbs. The rose supply, while extremely limited, is showing to much better advantage than for some weeks. Killarney and Richmond are in unusual condition and more like the roses which established their career successfully. American Beauty has seldom been exhibited in such rare form and is returning good profits to the grower. Carnations are selling better than for some weeks past. The stock has grown stronger and also the demand. Bulb stock is increasing and meeting with an even sale. Flowering plant stock is scarce and varieties are limited. Cyclamens, lilac and azaleas form the strongest combination.

NOTES.

A. Roper of Tewksbury has returned from the carnation convention well pleased with the success and honors accorded his carnations. His Bay State and new scarlet were shown to be in the pink of condition, notwithstanding the long journey entailed. Mr. Roper controls a model establishment to which he is continually adding and greater feats than yet recorded are expected from him.

Rumors are being heard of the plans now on foot aiming to effect an organization of the local growers and sales agents to secure accounts at stated times. Such a move has been talked of many times before, but now has become a necessity and we hope to see the organization safely and speedily launched.

Henry M. Robinson & Co. are handling at present a line of superior orchids, especially cattleyas. B.

Cleveland.

TRADE SATISFACTORY.

Trade the past week has been very satisfactory, as all lines of stock have been sold at a good price, and at the time of this report more could have been used. Weather conditions have shortened the supply of all flowers, and naturally stock has brought a better price, with all lines practically cleaned up. We trust these conditions will continue for some time, as they will put new life in the business transacted. Ferns in this city are becoming good property; the trade in this item is quite good, and good stock will command a higher price in the near future, as the stock from the east does not seem to be satisfactory.

NOTES.

In our last notes the date for the carnation show was given as February 10. Instead it should have been February 8, Monday evening. All out-of-town exhibitors should have their stock addressed in care of Isaac Kennedy, secretary, 2610 Detroit avenue. All packages should be prepaid.

The Cleveland Florists' Exchange is selling a novelty violet box for Valentine's day—a violet colored box with a heart and cupid dart embossed upon the cover in red, which has been a ready seller.

All those attending the carnation convention have returned full of praise for the show and the good things they had seen.

Mrs. Isaac Kennedy is recovering nicely from the operation she underwent at St. Vincent's hospital some time since. FORESTER.

HALIFAX, N. S.—Patrick Kenefick died at the residence of his son, 20 Fenwick street, January 21.

Annual Carnation and Rose Show

Feb. 27-28.
300 Mass. Ave.

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Horticultural Hall

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Anything you wish to sell in the east should be exhibited here. **FREE TO ALL.**

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Rose Plants
2¼-in. pots, early spring delivery.
My Maryland and Mrs. Jardine
100, $10.00; 1000, $90.00

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Rooted
Carnation Cuttings
All the new and standard varieties. Send for list and prices.
Stock Guaranteed.

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Asparagus Plumosus Nanus.
Extra large heavy Strings, 50 cents each.
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ABSOLUTELY THE BEST POSSIBLE SERVICE.

For VALENTINE DAY
Fancy Violets, = Orchids = Gardenias.
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Wholesale Flower Markets

PHILADELPHIA, Feb 3	Per 100
Roses, Beauty extra	25 00@40 00
" first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Lilac per doz.	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Feb. 3.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride Bridesmaid	2 00@ 8 00
" Chatenay	2 00@ 8 00
" Killarney	2 00@ 8 00
" Richmond	2 00@ 8 00
Carnations	2 00@ 4 00
Cattleyas	75 00
Daffodils	4 00
Freesias	4 00
Lilium Longiflorum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Snapdragon	2 00@ 4 00
Sweet Peas	50
Violets, single	25@ 35
double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	8 00@12 00

BOSTON, Feb. 3	Per 100
oses Beauty best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

Toronto.

ROSES STILL SCARCE.

The continued scarcity of roses is very noticeable and at times it is impossible to get sufficient stock to fill the retail orders, but with brighter weather the crop will improve. American Beauty is still off the list and Richmond is away off crop, while all other varieties are very scarce. In carnations there is a plentiful supply of good quality, and often at reasonable prices, though none are going to waste. Violets have become plentiful, but the weather is hardly favorable for street wear, so that they are not moving as quickly as desired. Bulbous stock is now the main factor for the retailers and all windows show quantities, daffodils predominating. Orchids are still fairly plentiful at $35 per 100.

NOTES.

The regular monthly meeting of the Florists' Club brought out a good number of members; the arranging for the prize list for the fall show occupied the evening, and a number of important changes were made, mainly in the classes for the retailers who wish to compete for the made-up work. The prize money in this class was increased 50 to 100 per cent, so as to bring in outside competition, and the main prize for funeral designs will include, besides the money offered, a gold medal to cost not less than $25.

Grobba & Wandrey are drawing the plans for another range of eight houses, which is becoming an annual affair with them. In my last notes Mr. Wandrey was given the credit for a bouncing baby boy. This was an error from my informant, as Mr. Grobba claims that, although there is a partnership for the growing of flowers, that when it comes to the infants he alone is responsible up to the present.

At the funeral of the archbishop of Canada and one of our most prominent financiers, H. C. Hammond, the past week, friends of both requested that flowers be omitted; both were men that were highly esteemed, and otherwise numerous floral emblems would have been sent.

H. G. D.

Pittsburgh Cut Flower Co.
(Limited)
The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

Baltimore.

STOCK SCARCE.

We have had for the past two weeks or so, more wintry weather, but we have escaped the violent storms and blizzards which have afflicted our neighbors to the north, east and south. Up to this time the mercury has not gone down to the zero mark and there have been few great wind storms. A great deal of fog and cloudy weather has prevailed, and conditions generally have not been favorable to the production of good flowers. Indeed the supply of all grades has been rather scant and the market would have taken more. Roses and carnations are scarce, by comparison; but single violets, hyacinths, freesias and similar stock is in supply beyond the requirements of the market, which does not absorb anything like all shipments. Lily of the valley does not seem to go well this year and northern shipments do not move satisfactorily. There is a great round now of social affairs, dinners, receptions, card parties, etc., and business ought to be at its best, but the scarcity of good material has a bad effect.

NOTES.

The Florists' Exchange is extending its business, doing a considerable shipping business with southern points, from Washington to Jacksonville. Several hours in express deliveries are gained over cities to the north of us, and doubtless this branch of its trade will steadily enlarge.

Mrs. Schuler-Thomas, of Saratoga street, has been critically ill, and though her condition is somewhat improved, grave fears are felt as to the outcome.

S. B.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

CLEVELAND
The J. M. Gasser Company
EUCLID AVENUE
We Ship to All Points in Ohio
The Best of Everything in CUT FLOWERS.

Kansas City, Mo.
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KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

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Hoffman FLORIST 59-61 Massachusetts Ave. cor Commonwealth Ave. BOSTON.

Anderson, S. C.
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533 MARSHALL AVE.

Atlanta, Ga.
ATLANTA FLORAL CO.
41 Peachtree Street.

SANTA ROSA, CALIF.—Already there is a talk of a grand rose carnival in the city of roses during the coming summer and much interest has been aroused. It is practically decided that a rose carnival, one of the biggest and best ever held in this city, where the first rose carnival in the state was held many years ago, will take place. The rose carnivals of the past have never failed to attract thousands of visitors here.

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The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
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Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

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Best Quality on Shortest Notice
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Prompt and Careful Attention given to all Mail and Telegraph orders.

Buffalo, N. Y:
Palmer's
W. J. Palmer & Son, 304 Main St.

Albany, N. Y.
EYRES
Flowers or Design Work.
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.
11 NORTH PEARL STREET,

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J.B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dis. Bell Phone

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FRANK H. HOUGHTON
FLORIST
Telephone Connection. 396 Boylston St.

GUDE BROS. CO. FLORISTS 1214 F ST. N.W. WASHINGTON, D.C.
WASHINGTON D. C.
—
Gude's

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.
Wittbold FLORIST
1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.
HAUSWIRTH FLORIST
M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Chicago. Tel. West 702.
The Floral Shop,
SCHNELL & POPPE, Prop'rs.
Our facilities for handling out-of-town business are perfect. 705 W. Madison St.

San Francisco, Calif.
J. B. BOLAND
Successor to Sievers & Boland,
FLORIST,
60 KEARNEY STREET.

Los Angeles, Cal.
J. W. Wolfskill,
FflorIST,
Telegraph Orders a Specialty. 218 W. 4th St.

New Orleans
CUT FLOWERS
For Tourists and General Trade.
Wire or mail. Highest Grade Stock Only.
URIAH J. VIRGIN, —838— CANAL ST.

Galveston, Tex.
Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. Phone 1912.

St. Paul, Minn.
HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Detroit, Mich.
John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.
Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

Kansas City, Mo.
WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

A sign like this in your window will draw good business now.

Steamship Sailings.

WEEK ENDING FEBRUARY 13.

Feb. 9, Ivernia, Boston-Liverpool.
Feb. 9, Saxonia, Liverpool-Boston.
Feb. 10, Campania, New York-Liverpool.
Feb. 10, Zeeland, New York-Antwerp.
Feb. 10, Majestic, New York-Southampton.
Feb. 11, Hesperian, Liverpool-St. John.
Feb. 11, Pomeranian, London-St. John.
Feb. 11, La Bretagne, New York-Havre.
Feb. 11, Menominee, Antwerp-Boston.
Feb. 11, Prinzess Irene, Genoa-New York.
Feb. 12, Baltic, Liverpool-New York.
Feb. 13, Numidian, Glasgow-Boston.
Feb. 13, Columbia, New York-Glasgow.
Feb. 13, Philadelphia, New York-Southampton.
Feb. 13, New York, Southampton-New York.
Feb. 13, Mauretania, Liverpool-New York.
Feb. 13, La Savoie, Havre-New York.
Feb. 13, Vaderland, Antwerp-New York.
Feb. 13, Celtic, New York-Liverpool.
Feb. 13, Canopic, Boston-Genoa.
Feb. 13, Pretoria, New York-Hamburg.
Feb. 13, Bulgaria, Hamburg-New York.
Feb. 13, Barbarossa, New York-Genoa.
Feb. 13, Main, Bremen-New York.

Toronto, Ont.
WITH HIGHEST GRADE ARTISTIC WORK
Dillemuth FLORIST
Can be relied on to fill all mail, telegraph or cable orders.
438 Spadina Avenue.
Long Distance Phone Main 2409

Owatonna, Minn.
Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

Terre Haute, Ind.
John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Milwaukee, Wis.
C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

Kansas City, Mo.
Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

Louisville, Ky.
Established 1880.
Orders for delivery in this city and nearby points in the South solicited by
M. D. REIMERS,
Successor to Chas. W. Reimers'
329 FOURTH AVENUE.

Brooklyn, New York.
"WILSON"
3 and 5 Greene Ave. and 339 to 347 Greene Ave.
Greenhouses: Short Hills, N. J.
— Deliveries in —
NEW YORK, LONG ISLAND and NEW JERSEY.

Nashville, Tenn.
Joy Floral Co.
610 Church Street.

Colorado Springs, Colo.
FRANK F. CRUMP,
Wholesale and Retail Florist.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

L. W. WHEELER, with the Braslan Seed Growers Co., has returned to the coast.

BOSTON, MASS.—W. W. Rawson & Co. are celebrating their twenty-fifth anniversary this year.

W. H. BARRETT, the seed grower of Adrian, Mich., sends out a fine steel portrait of A. Lincoln as an office card.

CALLA BULB growers in the vicinity of San Francisco report that their young seedlings have been injured by the severe frosts this winter.

TRAVELERS representing the market garden seed houses have been active since November near all large cities and report trade increased over last season.

INDIANAPOLIS, IND.—Chas. Schwake, representing Chas. F. Meyer & Co., was a visitor during the carnation convention last week, as was also J. C. Vaughan, Chicago.

PART of W. J. Fosgate's ranch at Santa Clara, Calif., was under four feet of water during the recent floods, and A. J. Pieters' onions were under water about one day, caused by one of the main ditches being out of order.

PHILADELPHIA, PA.—W. Atlee Burpee & Co. say their mail order business has opened up splendidly and, while some few days have not been quite up to the corresponding days of a year ago, yet, on the whole, they are very well satisfied.

CHICAGO—The onion set market continues strong at about $2.75 for white; red and yellow, $2—Contract prices on the board of trade February 3 for grass seed were noted as follows: Prime timothy, $3.80, white clover, $15.—Visitors: C. Madson and C. L. Kunz, of M. G. Madson Seed Co., Manitowoc, Wis.; Wm. Hageman, New York; W. C. Langbridge, of Jerome B. Rice, Cambridge, N. Y.; Harry Bunyard, of A. T. Boddington, New York; A. J. Pieters, Hollister, Calif.

LOUISVILLE, KY.—Theo. Cobb and C. B. Coe, of D. M. Ferry & Co., Detroit, Mich.; W. H. Grenell, Saginaw, Mich.; C. L. Kunz and M. G. Madson, of the M. G. Madson Seed Co., Manitowoc, Wis.; Arthur B. Clark, Milford, Conn.; W. C. Langbridge, Chas. P. Guelf, Jerome B. Rice and Jerome B. Rice, Jr., Cambridge, N. Y.; A. W. Livingston, Columbus, O.; Watson S. Woodruff, Orange, Conn.; S. F. Leonard, A. C. Leonard, Sam Sibley, C. W. Smith and John F. Geary, of the S. F. Leonard Seed Co., Chicago; Arnold Ringier, of the W. W. Barnard Co., Chicago; Leonard H. Vaughan, Chicago; G. H. Hogg, of Hogg & Lytle, Toronto, Ont.; H. A. Bertoli, of Bromfield & Colvin, Bay City, Mich.; A. L. Rogers, Rogers Bros., Alpena, Mich.; and C. N. Keeney, N. B. Keeney & Son, LeRoy, N. Y., were noted at the canners' convention this week.

American Seed Trade Association.

ED. AMERICAN FLORIST:—

In your issue of January 30 you make me say that our association had a meeting in New York; it was the executive committee. I see that you question the legality of holding a convention in Canada. Our constitution expressly provides that the membership shall consist of growers and dealers "in this country and Canada" and that is the only place the countries are mentioned. The constitution not only does not say anything about where we may meet, but, as a matter of fact, we held our convention at Toronto in 1894.

C. E. KENDEL, Sec'y.

Proposed Tariff Legislation Changes.

ED. AMERICAN FLORIST:—

In reply to R. Van der Schoot's letter would say that he must have been misinformed as to the attitude of the American Seed Trade Association on the tariff question relating to bulbs. The tariff committee has placed with the committee on ways and means of the house a schedule which suggests a duty per 1,000 of $1 on tulips and gladioli, $1.50 on narcissi, begonias, gloxinias and lily of the valley, $3.50 on hyacinths, $5 on lilies and $10 on peonies, and 50 cents per 1,000 on others not specially provided for. And, what is of greater consequence, we want specific duty.

C. E. KENDEL,
Sec'y American Seed Trade Ass'n.

Should Seedsmen Guarantee Crops?

J. H. Bollinger seems to write in a reasonable manner, and I heartily agree with him, and always have done, that "like begets like." There is no question but what there are unscrupulous dealers in seeds as well as there are unscrupulous dealers in any commodity, that the public use, but I believe with L. H. Vaughan that the proportion of the thousands of orders filled by the American seedsmen that prove unsatisfactory to their customers shows a very small per cent, and I am positive that the American seed trade should have a great deal of credit for the almost wonderful improvements that have been made in various types of vegetable and flower seeds during the past few years.

The executive committee of the American Seed Trade Association held a meeting in New York January 22, and I am pleased to state that we proposed having a paper delivered at our convention, to be held at Clifton house, Niagara Falls, Ont., June 22-24 next, by a successful and practical market gardener on the topic, "The Quality in Seeds from a Market Gardener's Standpoint." We hope that our speaker will give us something of benefit to buyer and seller of seeds alike.

WATSON S. WOODRUFF,
President American Seed Trade Ass'n.

Another Warranty Case.

The present case does not refer to the seed trade but the sale of insecticides. The parties are E. P. Rand, market grower, Rayleigh, and Adam Parker & Co., Waltham Cross. Plaintiff's case as stated on Saturday at the Southend court was that he purchased 40 gallons of a disinfectant called Destructo which the salesman stated was the same as Clubicide and equally safe to use, but cheaper. The results, however, were rather disastrous, as when the sun came out after using on his cucumbers, the leaves collapsed and the crop was more or less of a failure. The court rose before the other side could be heard.—Horticultural Advertiser, January 20, 1909.

Imports.

During the week ending January 30 imports were received at New York as follows:

H. F. Darrow, 70 pkgs. plants, one case trees, 187 cases lily of the valley pips, 99 pkgs. two bags seed.

Vaughan's Seed Store, 84 pkgs. lily of the valley pips, four bags, four cases, one pkg. seed.

McHutchison & Co., 39 cases plants.

Brown Bros. & Co., 225 bags seed.

P. Henderson & Co., 12 bags, six pkgs. seed.

J. M. Thorburn & Co., four bags, three cases, one pkg. seed.

A. T. Boddington, 51 bbls. grass seed, three cases bulbs.

To others: 177 cases plants, seven pkgs. plants, 30 cases bulbs, 64 pkgs. lily of the valley pips, 1250 bags sunflower seed, 425 bags cloverseed, 1661 bags seed, 67 pkgs. seed.

European Horticulture.

FROM THE FRENCH TRADE PAPERS.

TO OBTAIN CACTUS DAHLIA SEED.—However unpromising a double cactus dahlia may appear, most varieties, according to M. A. Vigier, will be found to hold some petals which contain a perfect pistil, most, however, have the pistils atrophied or altogether wanting. Some flowers will also certainly be found to be complete, and from these pollen, or better still, the stamens with pollen adhering, may be carried to the fertile stigma. In clear and sunny weather the petal may be left undisturbed, but in case of moist or cloudy days it is best to cut away a large portion at once to leave the pistil quite free, and, as soon as it withers, in all cases remove the petal entirely to provide against decay. Seed may thus be obtained from a large proportion of double cactus sorts.

AMONG the season's novelties are two most desirable verbenas:—V. hybrida compacta lutescens, dwarf, with strong short branches and creamy yellow flowers, and V. hybrida pumila Meteor, eight inches high, very deep scarlet red in color and admirable for borders or dwarf masses.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

The Everett B Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors..... ⅛ oz. 60c; oz $4.00
Pure white..... ⅛ oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Landreths' Seeds are the Seeds which Succeed
125 Years before the American Public.
Do you need some Black Beauty EGG PLANT
LANDRETH SEED CO., Bristol, Pa.

Seed Beans
F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety. Correspondence solicited.

BURPEE'S SEEDS PHILADELPHIA
Wholesale Price List for Florists and Market Gardeners.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

J. E. Hoopes & Co.
Muscatine, Iowa.
Growers on contract of Muscatine Island Vegetables, Sweet Potatoes, Plants, Melons, Fruits, Seeds, etc.
Specialties: Peppers, Tomatoes, Asparagus
Seedsmen cordially invited to inspect our growing crops or stocks at any time
CORRESPONDENCE SOLICITED

Routzahn Seed Co. Arroyo Grande, Calif.
Wholesale Growers of Full List Flower and Garden Seeds.
SWEET PEA AND NASTURTIUM SPECIALISTS.
Novelties for 1909 Contract Growing now being booked.

NEW SPENCERS.	NEW NASTURTIUMS.
Mrs. Walt. Wright Spencer	Dwarf Orange, variegated foliage
Senator Spencer	Tall Crœsus, variegated foliage
Black Knight Spencer	Tall Scarlet, variegated foliage
Gaiety Spencer	Tall Salmon, variegated foliage
Prince of Wales Spencer	Dwarf Variegated Ivy Leaf Princess
Juanita Spencer	Golden Rose, Gold Leaved
Blanch Ferry Spencer	Lilliput Lady Cherry.
Ruby Spencer	

WRITE FOR PRICE LIST.

Wildpret Bros. Port Orotava, Teneriffe (Canary Islands).
Largest Growers and Exporters of genuine
BERMUDA ONION SEEDS
Raised from purest strains obtained after many years' constant work.
We sell no old or mixed seeds. Our stock is true to name and quality. Those customers wishing to have a full delivery in the coming season are requested to send their orders at an early date.
☞REMEMBER THAT WE EXECUTE ORDERS FROM THE TRADE ONLY.
We want to protect our friends by SELLING ONLY TO REGULAR SEEDSMEN, and we expect also to receive your kind protection.

FIELD SEED CORN We Grow for the Wholesale Trade.
We grow all the leading best varieties; planted from pure stock, carefully selected, hand picked; butt and tip ends taken off by hand; also milled, screened and graded; highest quality and grade.
Write for samples and prices, with list of your requirements, in car lots or less.
Robinson's Code. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. **Varela's Improved Onion Seeds** will give best satisfaction to growers. Insist on getting them It will pay you.
Federico C. Varela, Teneriffe, Canary Islands

C. Hill Co.
SEATTLE, WASH.
Growers of
Puget Sound Cabbage Seed.
For Wholesale Trade Only.

S. D. Woodruff & Sons
SEED GROWERS AND DEALERS.
Garden, Field and Flower Seeds.
82 and 84 Dey St., NEW YORK.
Seed Farms: Orange, Conn. **OUR SPECIALTIES: Onion, Beet,** Tomato, Cabbage, Cucumber, Sweet Corn, **Seed Potatoes** and **Onion Sets.**
Catalogue free. Correspondence solicited.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
☞Write for Prices on Surplus Stocks for Immediate Shipment.

Trade Directory FLORISTS, SEEDSMEN, NURSERYMEN, Etc.
$3.00 Postpaid
AMERICAN FLORIST CO.
324 Dearborn St. CHICAGO.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

AN important report by A. C. Beal, of the Illinois Experiment Station, Urbana, on "Control of Thrips in Cucumber Houses," will be found on page — of this issue.

MENDON, MICH.—Beebe & Son have purchased 400 acres of land in Lake township for peppermint growing, to be added to the 300 acres already used by the firm for this purpose.

KALAMAZOO, MICH.—Articles of incorporation for the Kalamazoo Gardening Co., capitalized at $25,000, were filed at Lansing, January 25. The stockholders are Dr. Bunyan, W. Ostrander, Henry Van Haaften and Adam K. Grant.

Massachusetts Asparagus Growers' Ass'n.

The annual meeting of the Massachusetts Asparagus Growers' Association was held at the house of President C. W. Prescott, Concord, January 28, 1909. There was a good attendance. The president reported progress for the past year. An extremely interesting and instructive discussion took place concerning fertilization, breeding and general handling of asparagus.

Prof. J. B. Norton, representing the Bureau of Plant Industry of Washington, D. C., was at the meeting, and gave a most interesting talk upon the plan of breeding by which it is hoped to establish a rust resistant variety of asparagus. Prof. Norton's investigations of this subject during the past summer and fall shed much light upon the question, and encouraged the belief that success is more than a possibility. The following officers were elected:

C. W. Prescott, president.
Frank Wheeler, vice-president.
Thos. Hollis, secretary-treasurer.

Executive committee: C. W. Prescott, Frank Wheeler, Thos. Hollis, J. E. Howland, E. S. Corey, Wilford Wheeler.

[The above association was formed in January, 1906, with the stated idea of restoring the asparagus to immunity from the rust disease. The men composing the executive committee are practical growers, and the objects of the association are worthy of all encouragement. The annual dues of the society are only $1, the same being the initiation fee. ED.]

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points January 30 were as follows: Boston, cucumbers, $10 per box. Cincinnati, cucumbers, $1.50 to $1.75 per dozen; mushrooms, 30 cents to 35 cents per pound. New York, mushrooms, per pound, 35 cents to 50 cents; cucumbers per dozen, $1.25 to $2.50; lettuce per barrel, $2 to $3; tomatoes per pound, 20 cents to 30 cents; radishes per dozen bunches, 50 cents to 75 cents; asparagus per dozen bunches, $6 to $6.50; rhubarb per dozen, $1 to $1.25; grapes per pound (imported), 45 cents to 65 cents; muskmelons each, Egyptian, 75 cents. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $5 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 30 to 40 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.25 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents.

Stokes' Bonny Best Early Tomato

Is a Wonder. It is MAKING GOOD wherever grown.

If you grow tomatoes for early market you should use it.
If you grow tomato plants as a side line (there's money in it), it will make you a reputation.
It is **very early.**
It is a fine bright scarlet.
It is just the right size and shape.
It is the finest all-around tomato ever introduced.
It holds its size clear to the end of the season better than any tomato I have ever seen.

Stokes' Bonny Best Early Tomato

IS A WINNER

Price, pkt. 10c; oz., 50c; ¼-lb., $1.75; lb., $6.00. Postpaid.

Stokes Seed Store.

219 Market St., PHILADELPHIA, PA.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3 000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St.Paul,Minn**

FRESH MILL-TRACK SPAWN

$6 00 per 100 lbs.

Fresh Tobacco Stems, $1.50 per 300-lb. bale.

	Trade pkt.
Stocks, Cut and Come Again, assorted colors	$ .25
" Dwarf Bouquet, assorted colors	.25
" Snowflake, white	.50
Petunia, fringed, single, mixed	.50
" fringed, double, mixed	1.00

W. C. BECKERT,
103 Federal St., N. S., PITTSBURG, PA.

For Best Results Advertisers should mail new advertisements and changes so as to reach us on Mondays.

Vaughan's Seeds

ALYSSUM

Vaughan's Little Gem. extra fine strain........ ....lb.. $3.50: Trade pkt., 10c: oz , 35c

ASPARAGUS PLUMOSUS NANUS

We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds

BEGONIAS Trade pkt.

Berna. Flowers are of very bright, carmine red: they are produced all summer and in great abundance..................$ .15

Salmon Queen, new .... .25

Semperflorens Red Lubecca. Fine for bedding.................................. .25

LOBELIA

Bedding Queen. This is undoubtedly the best of the dwarf Lobelias The best Lobelia for carpet beds, borders and pots ....Trade pkt., 15c: ⅛ oz.. 25c: oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage, true	$ .10	$ .55
Hambrugin, new, for hanging baskets...........................	.25	
MAURANDYA, mixed ..¼ oz., 25c	.10	1.00

"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS

This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts .... Trade pkt. (1000 seeds), 50c; 3 pkts. for $1.25

	Trade pkt.	Oz.
Howard's Star.	$ .10	$ .80
Snowball................⅛ oz., 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich........¼-oz., $1.25	.25	
SMILAX, new crop....... lb., $3 00	.10	.25
STO KS, "Prince Bismarck," new giant double white...............	.25	
THUNBERGIA, mixed.............	.10	.40

VERBENAS

	Trade pkt.	Oz.
Defiance, brilliant scarlet true ...	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice............	.15	1.00
Rose and Carmine shades.....	.25	2.00
Purple..........	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa......	.05	.20
Lemon (Citriodora)................	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c; ¼ oz., 50c; oz., $2.00; 2 ozs., $3.50.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. **NEW YORK:** 14 Barclay St.

Greenhouses, Trial Grounds and Nurseries Western Springs, Ill.

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $6.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt Blanc, King Humbert and other new and standard varieties.

—Send for List.—

The Conard & Jones Co.

WEST GROVE PA.

NEW PLANTS

GLADIOLUS Lemoinei and Nanceianus.

V. LEMOINE & SON, Nancy, France

Catalogues on application.

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

CANNAS

Guaranteed True to Name. With from two to three eyes each.

Bronze Leaved Cannas

	doz.	100	1000
Black Beauty.......	$0 75	$ 5 00	$ 45 00
David Harum	50	3 00	27 50
Discolor	30	1 75	15 00
Egandale...........	50	3 00	27 50
Graf Walderseel....	1 25	8 00	75 00
Iroquois Chief.......	1 50	10 00	100 00
King Humbert......	1 25	8 00	75 00
Leonard Vaughan...	50	3 00	27 50
Shenandoah.........	40	2 50	22 50

Variegated Flowers

	doz.	100	1000
Elizabeth Hoss.....	$0 60	$ 4 00	$ 35 00
Florence Vaughan..	50	3 00	27 50
Queen Charlotte.....	40	2 50	22 50
Souv. de A. Crozy...	60	4 00	35 00

Cream and Yellow Shades

	doz.	100	1000
Buttercup..........	$0 90	$ 6 00	$ 55 00
Coronet.	60	4 00	37 50
Alsace..............	50	3 00	27 50

Orange Flowers

	doz.	100	1000
Sec. Chebanne......	$0 50	$ 3 00	$ 27 50

Red Flowering Cannas, Green Foliage.

	doz.	100	1000
A. Bouvier	$0 50	$ 3 00	$ 27 50
Beaute Poitevine. ..	50	3 00	27 50
Chas. Henderson....	40	2 50	22 50
Chicago	40	2 50	22 50
Duke of Marlborough	40	2 50	22 50
Explorateur Campbell	50	3 00	27 50
Papa Nardy.........	50	3 00	27 50
Express.............	75	5 00	45 00

Orchid Flowers

	doz.	100	1000
Allemania...........	$0 35	$ 2 25	$ 20 00
Austria	50	3 00	27 50
Burbank..	30	2 00	17 50
Frederick Benary....	90	6 00	55 00
Italia...............	50	3 00	27 50
Kate Gray..........	40	2 50	22 50
Partenope..........	40	2 50	22 50
Pennsylvania.	40	2 50	22 50

Pink Flowers.

	doz.	100	1000
L Patry.............	$0 35	$ 2 25	$ 20 00
Mlle. Berat..........	40	2 50	22 50

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MOSBAEK GREENHOUSE CO., Onarga, Ill.

WHY DELAY ORDERING YOUR

FLOWER SEED

The best that money can buy is not too good for you
We have the best we could possibly procure.
Just try us on the following for immediate sowing:

	1 oz.	tr. pkt.
Salvia Bonfire (Clara Bedman)....	$2.25	$ .25
" Splendens (Scarlet Sage) ..	1.00	.15
" Zurich (new)..1-16 oz., $1.25		.50
Verbenas, S. & I.. finest mixed....	2.00	.25
Lobelia Crystal Pal. compacta, true		.25
" Speciosa, trailing..........		.10
Begonia Vernon ...... 1-16 oz., 50c		.25
" Erfordii..................		.25
" Semperflorens Magnifica (very fine for pots) 1-32 oz., $1.50		.50

	Tr. pkt
Stocks, Princess Alice (Cut and come again) ....⅛ oz., 50c	.25
Primula Obconica Gigantea, 4 colors, separate or mixed........................	.50
Asparagus Plum. Nanus, fresh greenhouse-grown..... ......$4.00 per 100	
Asparagus Sprengeri, fresh greenhouse-grown .. .. .75 per 100	

Ask us to mail you our latest Catalog of Seeds, Bulbs and Plants.

SKIDELSKY & IRWIN CO., 144 N. 7th St., Philadelphia, Pa

Send Your Advertisements Early.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

FREDONIA, N. Y.—The wife of Louis Roesch committed suicide January 31 by shooting herself. She had been in poor health.

PRESIDENT TAFT is the name of a new rose, a cross between Gruss an Teplitz and Cramoisie Superieur, which Ottolander & Hooftmann, Holland, are sending out.

CONCORD, MASS.—Wilfrid Wheeler, proprietor of the Fairhaven greenhouses, gave a paper on "Small Fruit Growing" before members of the Worcester County Horticultural Society in Worcester, January 21.

FRENCH manetti stocks and other French nursery stock are being held up seriously at port of New York because of supposed danger from the brown-tailed moth. The Illinois authorities are also looking into this matter.

THE report of the annual meeting of the Western Association of Nurserymen, held at Coates house, Kansas City, Mo., December 15, 1908, contains much interesting matter including the proceedings of the association and several papers and addresses read on the occasion.

NURSERY STOCK is said to be very short in the northwest and local growers cannot nearly fill their orders in some varieties of fruit and other trees. Spring delivery will not begin for several weeks, but orders are coming in and nurserymen are buying stock from one another to fill them.

OROVILLE, WASH.—The headquarters for the Okanogan nurseries, formerly at Okanogan, have been moved here, and the owner, Jackson Evans, is arranging for the planting of his spring stock. From this place the nursery will enter into competition with other nurseries of the state, shipping by rail from this place.

A BILL giving the secretary of agriculture authority to regulate the importation and interstate transportation of nursery stock, including seed, was presented January 30 by Chairman Scott, of the house committee on agriculture. An appropriation of $100,000 is provided for the appointment of skilled inspectors. It is provided that there can be no entry of nursery stock without a certificate from an expert satisfactory to the secretary.

The Red Cedar.

There is a suggestive note in "Notes on Forest and Ornamental Trees," published by the Texas Experiment Station, respecting the planting of the red cedar: "Used for avenues the red cedar gives the effect of dreary monotony instead of pleasing uniformity. The same is also true when planted together in large groups unless the trees be restricted to certain forms and compactness by constant pruning or shearing." With the first part of this note we cordially agree. There are many trees beautiful in themselves that are not good for planting in lines. The red cedar is one of them. The Irish yew is another. The latter is a beautiful tree, yet how funereal it looks when planted in lines! But to say that any improvement in the matter can be made by restricting the trees to certain forms and compactness by "constant pruning or shearing" is a mischievous statement and only calculated to make a bad matter worse. There are several varieties of the juniper and some are stiffer and more set in habit than others, but how this can be improved by clipping into forms even more stiff, it is difficult to see.

Western New York Horticultural Society.

THE ROCHESTER MEETING.

With a magnificent display of fruits, vegetables, ornamental trees, shrubs, and nursery stock, and with more than 4,000 square feet of spraying devices on exhibition, the Western New York Horticultural Society opened its fifty-fourth annual meeting January 27 at 10:30 o'clock. President W. C. Barry rapped his gavel on the table promptly at the time scheduled for the business of the morning session to begin and more than 1,000 members were present when Mr. Barry made his opening address and welcomed the visiting members to Rochester, which has for 54 years been the favored meeting spot for the society.

W. C. Barry, Rochester, N. Y.
President Western New York Hort. Society.

From the enthusiasm shown it was conceded that this convention will be the most successful ever held in the history of the organization, for never before has it had so convenient a place for exhibition purposes as Convention hall. Beginning at 10:30 the fruit men were occupied with the appointments of committees and the reading of reports by Park Commissioner John Hall, who is the secretary and treasurer of the society. This was followed by an address by Professor F. C. Stewart, botanist of the New York State Experiment station on the subject of "Recent Investigations on Plant Diseases." "What is Soil Fertility" was described by Dr. L. Van Slyke, chemist from the State Experiment Station.

PRESIDENT BARRY'S ADDRESS.

President Barry in his address said in part: "Proper cultivation and fertilization of the soil, good crops, and forestry are subjects considered and discussed by the ablest men in the land today, and why? because of their close relation to the general welfare of the people. This work is exactly in line with the purposes of our association. From the date of its organization the membership has been striving to secure better results from the land, and while we have not accomplished all that we should, we can at least feel that our efforts have been fairly successful.

"Unfortunately, we have to be satisfied with moderate accomplishments. No business that I am acquainted with has so many attractive features connected with it as fruit culture. If we value it as we should, devote our best energy to it, aim to grow the best and to be satisfied with nothing else, and work intelligently, failure will be almost impossible. We should possess a good library of horticultural, agricultural and pomological works, subscribe for horticultural and agricultural journals, keep in touch with the experiment stations, and become members of horticultural and kindred associations." After his address Mr. Barry appointed the following committees:

Business—Samuel Fraser, Genesco; C. G. Hooker, Rochester; D. D. Stone, Oswego.
Resolutions—Professor U. P. Hedrick, Geneva, and John Craig, Ithaca.
Finance—C. S. Wilson, Ithaca; Y. I. Smith, Hilton.
Fruit exhibits—Professor S. A. Beach, Ames, Ia.; I. H. Dewey, Rochester.
Nominations—C. M. Hooker, Rochester; E. W. Catchpole, North Rose; J. S. Woodward, Lockport; Clark Allis, Medina; J. Corwin Jack, Batavia.

The report of the secretary-treasurer showed the growth of the society. The receipts during the year were $2,000, of which more than $1,000 came from membership fees. F. E. Rupert, as chairman, reported on the exhibit made by the society at the state fair. The society was awarded a second prize of $250; 1,400 plates of apples, including 206 varieties, were shown; 138 varieties of pears, 43 varieties of plums, 15 of peaches, 108 of grapes, eight of nuts and three of quinces. The $250 prize was turned into the treasury of the society.

The second day's sessions were equally well attended. J. H. Hale, of the Connecticut Pomological Society, gave an impromptu address full of practical suggestions to fruit growers. He insisted that there was as much lack of business methods in packing and marketing fruit as there was lack of care in growing, and he pointed out that no success could be complete unless the one supplemented the other, for the interests could not be separated.

Secretary Hall offered a resolution, which was unanimously adopted, approving the plan of the Mayor for an addition to Convention hall. In commenting on this resolution Secretary Hall took occasion to say that he had been forced, because of the lack of room, to refuse space to eight or ten manufacturers who desired to make exhibits.

Resolutions were adopted approving the bill introduced in congress to regulate the grading and sale of fungicides and insecticides, approving national and state pure-food legislation forbidding the use of injurious preservatives in food products, as it has a far reaching influence on the fruit industry, and approving the efforts, state and national, to conserve the natural resources. The following officers were elected for the coming year.

W. C. Barry, president.
John Hall, secretary-treasurer.
S. D. Willard, Geneva, J. S. Woodward, Lockport, S. W. Wadhams, Clarkson and Albert Wood, Carlton Station, vice presidents.

C. KERKVOORDE NURSERIES

WETTEREN, n. GHENT, BELGIUM.

100,000 **Roses,** low budded on Rosa canina, all best sorts, our selection, $4.00 per 100; purchaser's selection, $5.00 per 100. 25,000 **Planes,** straight, transplanted, 10-12 feet, $10.00 per 100; 12-14 feet, $12.00 per 100. **Azalea, Rhododendron, Conifers, Peonies.** Cash with order. Catalog free.

Kallen & Lunnemann

BOSKOOP, HOLLAND.

Largest Growers and Exporters of High Grade **Rhododendrons, Boxwood, Conifers, Koster Blue Spruce, etc., etc.**

Watch for Our Interesting Price Lists.

Nashville.

The State Horticultural Society and the State Nursery Association, held important meetings here January 26-27, being the fourth annual joint assembly. President R. A. Wilkie, of Culleoka, presided over the sessions of the Horticultural Society, and F. G. McCord, of this city, presided in the nurserymen's sessions. Interesting reports were made, and excellent papers, bearing upon the horticultural and nursery interests of the state, were read by practical workers. A state tree planting day was advocated, and a resolution was passed endorsing the efforts of Hon. John Thompson, commissioner of agriculture, asking the legislature, now in session, to appropriate $5,000 to aid the fight that the state board of entomology is making against insects and fungi that prey on fruit.

This state stands high as a nursery state, having over $10,000,000 invested in nurseries and orchards. A practical demonstration of the use of a power-spraying machine was given on Polk avenue, fronting the hall in which the convention was held. The following resolutions were also adopted:

"Resolved, That our senators and representatives now in congress be urged to assist in the passage of the house of representatives bill No. 21,318, and senate bill No. 6,575, for preventing the manufacture, sale and transportation of adulterated or unbranded Paris green, lead arsenates and other insecticides and fungicides, and for regulating traffic therein. Also,

"Resolved, That in view of the increasing danger to the horticultural interests of the state from the introduction and spread of the San Jose scale, and other destructive scale and fungus diseases, that our state legislature is hereby urgently requested to increase the appropriation for the Department of Agriculture to the extent that the board of entomology may have an appropriation of $5,000 instead of $2,000, as at present, and also make provision for the inspection of orchards and nurseries of the state, and the proper enforcement of laws pertaining thereto."

A special exhibit of apples was made by Stark Bros., one of the leading apple growing firms of the United States. For the Nurserymen's Association, the following officers were elected:

J. C. Hale, Winchester, president.

Willis Hastings, Mansfield, vice-president for west Tennessee.

W. Y. C. Grant, Columbia, vice-president for middle Tennessee.

A. J. Smith, Knoxville, vice-president for east Tennessee.

S. M. Bentley, Knoxville, secretary and treasurer.

For the horticultural society the following officers were elected:

W. P. Wade, Humboldt, president.

J. A. Fletcher, Cleveland, vice-president for east Tennessee.

Percy Brown, Spring Hill, vice-president for middle Tennessee.

Otto Henninger, Memphis, vice-president for west Tennessee.

Prof. C. A. Keffer, Knoxville, secretary and treasurer.

There is a growing interest, both in the horticultural and nurserymen's associations and great good will no doubt come from their annual gatherings.

M. C. D.

BERCKMANS' TREES

BERCKMANS'

Dwarf Golden

(Biota Aurea Nana.)

ARBOR VITÆ

(Biota Aurea Nana.)

NOW READY.

Largest Stock in Existence

Althea Meehanii,

Exochorda, Weeping Mulberry, Magnolia Grandiflora Azalea Indica, Camellias, Field-grown Roses, Rubbers, Pandanus and Arecas

Send for Trade List.

P. J. BERCKMANS CO.

(FRUITLAND NURSERIES)

Augusta, Ga.

Proceedings

Of the Congress of Horticulture held at the Jamestown Exposition, September 23, 1907.

Linen Bound. 108 pages. Price 25c.

This publication includes the formal adddresses and discussions of the papers read at the meeting which covered the various phases of Horticulture This meeting was pronounced by Horticultural authorities as one of the greatest Horticultural meetings ever held in a single day. For copies address

H. C. IRISH, Secretary

National Council of Horticulture, Missouri Botanical Garden. **St. Louis, Mo.**

Conrad Appel

DARMSTADT, GERMANY.

Established 1789.

Agricultural and Forest Tree Seed Establishments.

SPECIALTIES:

Natural Grass, Clover, Agricultural and Forest Tree Seeds of unsurpassed quality.

GRASS SEED MIXTURES

For Lawns, Meadows and Pastures.

2 Grand Prizes, Milan, 1906.

Gold Medal, Jamestown, 1907

BOBBINK & ATKINS,

Rutherford, N. J.

Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

FROM GROWER TO PLANTER

Ellwanger & Barry's

TREES

Shrubs, Roses Evergreens and Hardy Plants

Are Famous The World Over

Best stock at reasonable prices. No agents. Commissions saved. Collections unequalled. Beautiful illustrated catalogue mailed *free* on request.

MOUNT HOPE NURSERIES

ESTABLISHED 1840 *Box Q, Rochester, N. Y.*

American Everblooming Hydrangea.

Strong field-grown plants, 15-in. and up, $2.00 per doz., $15.00 per 100; field-grown plants, 8 to 12 in., $10.00 per 100, $90.00 per 1000; field-grown plants, 4 to 8 in., $6.00 per 100 $50.00 per 1000. Lists free.

THE E. Y. TEAS CO., Centerville, Ind.

LARGE TREES.

OAKS and MAPLES.

PINES and HEMLOCKS.

ANDORRA NURSERIES,

Wm. Warner Harper, Prop.

Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.

Write for descriptions and prices.

THE WM. H. MOON CO.,

Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Val'eys,

Price List Free on Demand.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.

CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....

PAINESVILLE, OHIO.

Always mention The American Floris when you order stock. : : :

THE TAFT ROSE

A Summer Blooming Rose Similar in Growth and Habit to K. A. Victoria.

Color: A Beautiful Rose Salmon. Substance: Has from 55 to 60 Petals. It is a strong, vigorous grower, and we can conscientiously recommend it as a garden rose; tried the same in fifteen different private gardens about Cincinnati the past summer, hearing nothing but the highest praise from all who tried it.

The stock of this beautiful rose is limited, and all growers desirous of having any plants we would kindly ask to send in their orders as soon as possible.

Ready by March 1st, at $15.00 per 100.

THE HYDE PARK ROSE CO., Successors to Sunderbruch & Meier, **Hyde Park, Cincinnati, O.**

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each; $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

ROSES

We have a fine stock of large dormant field-grown plants on own roots, including Crimson Rambler, Dorothy Perkins Clio, Alfred Colomb, Fracois Levet, Jack, Prince Camille de Rohan, Magna Charta, Ulrich Brunner, Giant of Battles, and many others, at $16.00 per 100; $150.00 per 1000 Send for list. **Roses, Dahlias** and **Cannas** a specialty.

THE DINGEE & CONRAD CO., West Grove, Pa.

American Beauty ROOTED CUTTINGS

$3.00 per 100; $25.00 per 1000.

Geo. Reinburg,

51 Wabash Avenue, CHICAGO, ILL.

Form Versus Variety.

If there is any botanist, living or dead, who has made a clear distinction between the words "form" and "variety" as applied to plants, we wish someone would rise up and point him out. So far as our own efforts go, we fail to find much difference in the two except that the word variety is the more general term and may mean anything in plants less than a species. The use of the word form, to designate trivial forms of plants, due to variations in the soil, moisture, light, etc., in the plants' habitat has but recently come into general use, being first taken up extensively by the Fern Bulletin. Previous to that time variations in the species were usually known as varieties. To change the name of a plant from form to variety or the reverse, would seem a mere change of terms not affecting the status of the plant form in any way. This being the case, it is surprising that a prominent botanist should seize upon such a slight pretext to get his own name into print. This, however, has been done in a prominent eastern publication where Rhus glabra variety laciniata Carr., has been changed to Rhus glabra forma laciniata (Carr.) as a new combination in the full expectation, doubtless, that future generations will write the name of the aforesaid eminent botanist after the parenthesis. For ourselves, we are disinclined to accord him so dubious an honor.—American Botanist.

VAUGHAN'S LIST OF

Roses for Forcing

	Per doz.	Per 100
Crimson Rambler.		
2 yrs. old, 2 to 3 ft., well branched, own roots	$2 00	$12 00
2 yrs. old, 2 to 3 ft., well branched, budded	2 00	12 00
3 yrs. old, 3 to 4 ft., well branched, own roots	3 00	15 00
3 yrs. old 3 to 5 ft., well branched, budded	3 00	15 00
4-inch pots		10 00

	Per doz.	100
Dorothy Perkins.		
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00
Tausendschon.		
2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00
Lady Gay.		
5-inch pots, strong	5 00	40 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr	2 00	15 00
TRIER, 2 yr	2 00	15 00

	Per doz.	100	1000
Baby Rambler. Dormant, field-grown.			
1st size, selected, budded	$2 50	$16 00	$150 00
2nd size, selected, grafted	2 00	12 00	100 00
3rd size, selected, grafted	1 50	10 00	80 00
Pot-grown.			
2½-inch	$ 75	5 00	
3-inch	1 25	8 00	
4-inch	2 00	12 00	
5-inch	4 00	30 00	

Anny Mueller.
Dormant plants, 1 yr ..... $10 00 per 100

	Each	Doz.	100
White Baby Rambler.			
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
5-inch	35	3 50	25 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.

French Stock ..... per 100, $1 50; per 1000, $12 00; 5,000 lots at $10 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Rhododendrons, in assorted colors, our selection:			
Strong, bushy, well shaped plants, 8-12 buds	$1 00	9 00	
Strong, bushy, well shaped plants, 12-18 buds	1 25	12 00	
Strong, bushy, well shaped plants, 18-24 buds	2 00	20 00	
Lilac, pot-grown, for forcing, Chas. X, Mme. Cassimir, Perier, Bertha Dammann, Mme. Lemoine, strong, well branched, with plenty of buds	1 00	10 00	
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Gracilis, pot-grown, 7 in. pots, fine for forcing	15	1 50	12 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

CORRECTION

Our Wholesale Price List of Roses and Carnations contains a serious error, which was not discovered until most of the lists were issued. Grafted White Killarney Roses are $35.00 per 100; Grafted My Maryland Roses are $20.00 per 100; not $15.00 per 100 as quoted.

J. L. DILLON, Bloomsburg, Pa.

WELLINGTON, KANS.—Hiram Myers, an early settler of this county and for years the leading florist here, died January 26, of paralysis after a short illness, aged 70 years.

White Killarney

"WABAN CONSERVATORIES VARIETY"

Acknowledged to be the Finest White Rose Ever Placed on the Market.

YOU MUST HAVE THIS BEAUTIFUL ROSE

The remarkable vigor of the plants now growing in our Greenhouses assures all our customers of the very best stock obtainable.

Why Not Buy the Best Stock?

ORDER FROM US

Waban Rose Conservatories, Natick, Mass.

Buffalo.

BUSINESS VERY GOOD.

The past week has been more like April than January, but Friday was the forerunner of a change which has developed into a genuine winter with almost zero weather. Stock has been quite plentiful, excepting carnations, which are just off crop. Business has been very good, with a small amount of funeral work until Saturday and Sunday, when the deaths of two prominent business men gave all a busy time. McKinley's birthday was the banner year for carnations, the retailers never selling more than on this year. It was probably due to the fact that the union rescue mission, somewhat similar to the Salvation army, conceived the idea of having young ladies in all large stores, hotels, office buildings, depots and on street corners, and in that way sold something like 25,000 flowers at prices from $10 down to 10 cents. The sale on the streets and other places stimulated the store sales, altogether making one of the best days that we have had since McKinley day was established.

NOTES.

John L. Brothers, superintendent of the city parks, was stricken with paralysis about two weeks ago, and, owing to his age, fears are entertained for his recovery. David Seymour, auditor of the board of park commissioners, is acting superintendent.

The tablet in the City hall was decorated with a large carnation wreath on McKinley's birthday, furnished by the Spanish war veterans. The McKinley monument had a very large laurel wreath with cycas, as last year.

At the important meeting of the Florists' Club on Tuesday evening action will be taken in regard to the coming meeting of the American Rose Society.

The Ever Ready Pot Cover Co. are very busy with advance orders for Easter and so far are away ahead of last year.

YOU WANT THE BEST

Chrysanthemums at Planting Time

WE HAVE THEM

Order now and increase the stock. If you prefer them later, let us book the order NOW. It costs no more, with the advantage of securing at the proper time the kinds you want. ESTABLISHED PLANTS OR ROOTED CUTTINGS. New list of Rooted Cuttings now ready.

ELMER D. SMITH & CO., Adrian, Mich.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

Bargains in 4-inch Pot ROSES

for immediate shipment.

400 best sorts, 2½-inch, now or spring.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

MANETTI STOCKS

SPECIAL FLORISTS' GRADE.

We have a few thousand of these stocks remaining and to close out the surplus we will sacrifice them at a very low price.

Write for prices stating quantity you can use.

Thomas Meehan & Sons, Inc., Dresher, Pa.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Visitors: Wm. J. Stewart and P. Welch, Boston, Mass., on their return from the convention; Max Beattus, Dayton, O.; Arthur Reskman, of M. Rice & Co., Philadelphia.

BISON.

CARNATION CUTTINGS

We offer choice varieties for January and later shipments.

	Per 100	Per 1000
ENCHANTRESS	$2 50	$20 00
WHITE "	3 50	30 00
ROSE PINK "	2 50	20 00
WHITE PERFECTION	2 50	20 00
WINSOR	3 50	30 00
MELODY	2 50	20 00
BEACON	3 50	30 00
VICTORY	3 50	30 00
ARISTOCRAT	3 50	30 00
SPLENDOR	6 00	50 00
VESPER	3 50	30 00
WHITE LAWSON	2 50	20 00

East Sudbury Greenhouses,

CARNATION SPECIALISTS

P. O. Address, SOUTH SUDBURY, MASS.

Telephone So. Sudbury 20

Rooted Cuttings Now Ready

Nothing but the Best at Lowest price—first come, first served. Credit only to reliable people

	Per 100	Per 1000
W. H. Taft (New Red)	$12 00	$90 00
Victory	2 50	20 00
Enchantress	1 75	15 00
Pink Lawson	1 50	12 50
White "	2 00	18 00
Variegated "	2 75	25 00

UNROOTED STOCK

Mrs. A. N. Nelson	$ 60	$ 5 00
Crusader	60	5 00
Boston Market	60	5 00

Lawson, pink, white and variegated, half rate.

SCHEIDEN & SCHOOS, 60 Wabash Ave. Chicago

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., **Cincinnati, O.**

Lloyd Carnations.

The Only Ever-blooming White in Existence. Easy rooted. Excellent keeper and shipper. Best seller of any white carnation on the market.

	Per 100	Per 1000
Rooted cuttings from sand	$3 00	$25 00
Rooted cuttings from soil	4 00	35 00

Cash with order.

JOHN BENNETT, Atlantic Highlands, N. J.

CARNATIONS!

Apple Blossom. **Wanoka.**

Rooted cuttings on and after Dec. 1st, '08. We wouldn't **advertise at all** if we could get you to visit our place. Because **"Apple Blossom"** and **"Wanoka"** are their own best advertisements. They are positively **distinctive**-so distinctive as to be leaders in **quality, production** and **character. A very early order** will not disconcert us, and it may be of advantage to you.

WANOKA GREENHOUSES, Barneveld, N. Y

Spokane, Wash.

The second annual national apple show will be held in this city this year. This was definitely decided January 28 at a joint meeting of committees representing the chamber of commerce, the National Apple Show and the national irrigation congress. The national irrigation congress will convene here August 9-14.

Committees from the above bodies met and appointed a committee to formulate a plan whereby funds can be raised. The great success of the first National Apple Show, which was held in December, 1908, and the insistent demands of residents of the inland empire that it be repeated, were instrumental in bringing the committee to its decision. The show will be on a grander and larger scale than the first.

Carnations ROOTED CUTTINGS

NEW INTRODUCTIONS

Mrs. Chas. Knopf, light pink (Knopf),
Ruby, crimson (Knopf),
Georgia, white (Cockcroft),
Mrs. J. C. Vaughan, white (Rudd),
Bay State, variegated (Roper),
Pink Delight (Dorner),
Wanoka, crimson (Wanoka Greenhouses).
Apple Blossom, white, light pink markings (Wanoka Greenhouses),

$12.00 per 100; $100.00 per 1000.

O. P. Bassett, scarlet (Bassett & Washburn), **$8 00 per 100; $60.00 per 1000.**

The two novelties. Mrs. Chas. Knopf and Ruby, give great promise as commercial varieties; both are free producers. We have them both growing side by side with the standard sorts, and they have demonstrated now that they are here to stay. Mrs. Chas. Knopf is at this time especially good, being larger and of better form and color than Enchantress. Ruby is a very large, perfectly formed flower with excellent stem, and it has a good crimson shade, not too dark.

STANDARD VARIETIES

One Hundred Thousand Cuttings, Selected, Strong Stock, Ready to Ship.

WHITE	Per 100	1000
Sarah Hill	$6.00	$50.00
Pres. Seelye	6.00	50.00
Lloyd	5.00	40.00
White Enchantress	3.50	30.00
White Perfection	2.50	20.00
PINK		
Splendor	6 00	50 00
Afterglow	6.00	50 00
Winona	6.00	50.00
Lawson-Enchantress	5.50	50.00

PINK	Per 100	1000
Welcome	4.00	35 00
Winsor	3.50	30.00
Aristocrat	3.50	30.00
Rose Pink Enchantress	2.50	20.00
Enchantress	2.50	20.00
Lawson	2.50	20.00
RED		
Beacon	3.50	30.00
VARIEGATED		
Mrs. Patten	2.50	20.00

CHRYSANTHEMUMS.

Golden Glow, 2¼-in. pots, ready for shift ..... $6.00 per 100
Rooted Cuttings, selection of 40 varieties, the cream of the commercial sorts.
Write for list and prices.

New Rose My Maryland

GRFTED, 2½-in. pots ..... $20.00 per 100; $150.00 per 1000
OWN ROOTS, 2½-in. pots ..... 10.00 per 100; 90 00 per 1000

Orders Booked Now for this Most Promising Variety.

S. J. REUTER & SON, Inc., Westerly, R. I.

CARNATION

MRS. J. C. VAUGHAN

(WHITE)

Early. Free. Continuous. It Keeps. It Ships.

High score for certificate at Washington after 54 hours in box.
Won Sweepstakes and best white seedling at Chicago, 1907.

$12.00 per 100; $100.00 per 1000.

JENSEN & DEKEMA, 674 W. Foster Ave., Chicago.
W. N. RUDD, Morgan Park, Ill.

Rooted Carnation Cutttings

PINK	100	1000
Afterglow	$6 00	$50 00
Winona	6 00	50 00
Winsor	3 50	30 00
Rose Pink Enchantress	3 00	25 00
Enchantress	2 50	20 00
Lawson	2 50	20 00
Aristocrat	3 50	30 00
RED		
Beacon	$3 50	$30 00
Victory	3 00	25 00
Robt. Craig	2 50	20 00

WHITE	100	1000
Sarah Hill	$6 00	$50 00
White Enchantress	3 00	25 00
White Perfection	3 00	25 00
Lady Bountiful	2 50	20 00
Queen	2 50	18 00
Lt. Peary	2 50	18 00
Lawson	2 50	20 00
MISCELLANEOUS		
Harry Fenn	$2 50	$20 00
Harlowarden	2 50	20 00
Patten	2 50	20 00

WE GUARANTEE SATISFACTION

The Leo Neissen Co., Wholesale Florists, 1209 Arch Street. **Philadelphia, Pa.**

The New Carnation Lucille

Color: White, overlaid with pink. **LUCILLE,** owing to its beautiful color, magnificent form and ideal habit, coupled with its great productiveness, size and keeping qualities, commands the highest prices on the market, so becomes the most profitable variety for you to grow. Try it and compare your returns. We are now booking orders for Jan. 1 and later delivery. Write for descriptive circular.

A. F. LONGREN, Des Plaines, Ill. HIGHLAND PARK GREENHOUSES, Highland Park, Ill.

CARNATION WHITE ENCHANTRESS.
Growing at the Chicago Carnation Co.'s Establishment, Joliet, Ill.

Rooted Carnation Cuttings

READY NOW

	Per 100	1000
Pink Delight (Dorner), shell pink	$12 00	$100 00
Lucille, white, overlaid with pink	12 00	100 00
Mrs. Chas. Knopf, light pink	12 00	100 00
Ruby, crimson	12 00	100 00
O. P. Bassett, bright red	8 00	60 00
Andrew Carnegie, scarlet	6 00	50 00
Splendor, pink	6 00	50 00
Lawson-Enchantress, cerise pink	6 00	50 00
Sarah Hill, white	6 00	50 00
Pres. Seelye, white	6 00	50 00
Defiance, scarlet	6 00	50 00
Afterglow, cerise pink	6 00	50 00
Aristocrat, beautiful cerise	4 00	35 00
White Enchantress	4 00	35 00
Beacon, scarlet	4 00	35 00
Winsor, pink	3 00	25 00
Enchantress light pink	3 00	25 00
White Perfection	3 00	25 00
Rose Pink Enchantress	3 00	25 00
Melody, light pink	3 00	25 00
Victory scarlet	3 00	25 00
Welcome, pink	3 00	25 00
Lady Bountiful, white	3 00	25 00
White Lawson	3 00	25 00

WINNERS OF 56 PRIZES
For Carnations This Season.

CHICAGO CARNATION CO.,
A. T. Pyfer, Mgr., JOLIET, ILL.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan, $12.00 per 100; $100.00 per 1000.

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations Roses and Chrysanthemums.

Chas. H. Totty,
Madison, New Jersey.

NEW WHITE CARNATION

MARCHIONESS

Fine form, prolific early and cotinuous.
$10.00 per 100; $80.00 per 1000.

BELLAMY BROS., Syracuse, N. Y.
Successors to L. E. Marquisee Estate.

ALVINA

The Best Dark Pink Commercial Carnation Ever Introduced.

Rooted cuttings, $10.00 per 100; 25 at 100 rate.
Your money back if it fails to make good any time before Dec. 15, 1909.

Henry Eichholz, Waynesboro, Pa.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.
Ready at once. Write for prices to

ELI CROSS, 25 Monroe St., Grand Rapids, Mich.

NEW BRITAIN, CONN.—Edward T. Elton, Jr., who has been seriously ill for some time with heart trouble, died January 28 at his home on Berlin street. He is survived by his wife, two small children, and his aged father. Up to the time of his sickness Mr. Elton had been employed by A. A. Weldon, the greenhouse man, and has always been found a reliable worker. Less than two months ago the family moved from the old Elton farm to their new home near Woodruff's store. He was 42 years of age.

Rooted Carnation Cuttings

For Early January Delivery and Later

A selection from 20 varieties. Every one reliable.

		Per 100	1000
White	WHITE PERFECTION	$3 00	$25 00
Red	BEACON	4 00	35 00
Light Pink	ENCHANTRESS, MELODY	3 00	25 00
Medium Pink	WINSOR	3 00	25 00
	WINONA	6 00	50 00
Dark Pink	ROSE ENCHANTRESS	3 00	25 00
	SPLENDOR, VIOLA SINCLAIR	6 00	50 00
Variegated	VARIEGATED LAWSON	3 00	25 00
Crimson	OCTOROON	3 00	25 00

Viola Sinclair sent out on trial in limited quantities by H. W. Field, Northampton, Mass., has proved to be an acquisition for the average grower. It is early, extremely free, resembles Mrs. T. W. Lawson in color, and a continous bloomer. Worthy of trial by all.

PETER FISHER, CARNATION SPECIALIST. **Ellis, Mass.**

New White Carnation GEORGIA The Best White

Best for **Quality.** **Come and See It.** Best for **Quantity.**

This variety is bound to supplant other whites as it not only produces as many or more flowers but every one of them comes with a perfect calyx borne on a long stiff stem, supporting the bloom in perfect shape. This fact makes it greatly superior to other varieties as a money maker. We have 20,000 cuttings in the sand for Jan. delivery. **Rooted Cuttings: $2.00 per doz.; $12.00 per 100; $100.00 per 1000 Satisfaction guaranteed.** See classified "ad" for price list of Standard Varieties.

J. D. COCKCROFT, Northport, Long Island, N. Y.

New Carnation Edward.

This new seedling Carnation is a wonder for producing flowers, full of business from start to finish, continuous throughout the season, cannot be beat for productiveness, easily grown and propagated. **Description:** Deep pink in color, very large and well built up in center with good stem and calyx. Comes into bloom early and keeps at it with wonderful results. **$12.00 per 100; $100.00 per 100.** Will be heard from with others in the future.

W. H. SHUMWAY, Berlin, Conn.

JUST AS A REMINDER

To Our Patrons.

We have ROOTED CUTTINGS of the BEST CARNATIONS.

PATTEN & COMPANY, Tewksbury, Mass.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

Araucaria Excelsa

5½ to 6 in. pots, 3, 4 and 5 years old, 4, 5, 6 and 7 tiers, from 18 to 25 to 30 in. in height. 60c, 75c, $1.00 to $1.25.

Araucaria Robusta Compacta and **Excelsa Glauca,** specimen plants, small stock, the same in width as in height. 6-in. pots, 4 to 5 years old, 3, 4, 5 and 6 tiers 20 to 25 to 30 in. high, $1.50, $1.75 to $2.00 each.

Cineraria Hybrida, best strain, 2½ to 3 in. pots, $4.00 to $5 00 per 100.

Areca Lutescens, 4-in. pots, three plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in. pots, 25c, 30c and 40c.

Boston Ferns, 6-in. pots, 50c; 7-in. pots, 75c, $1.00 to $1.25.

Scottii Ferns, 5½-in. pots, 40c; 6 in. pots, 50c; 7-in. pots, 75c to $1.00.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c, $1.00 to $1.25; 9 in. pans, as big as washtub $1.25 to $1.50.

Neph. Amerpohlii, 5¼ to 5½in. pots, 30c, 40c and 50c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots, 25 to 30 in high, 50c to 60c; 4-in., 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25, 30, 40 to 45 in. high, 75c, $1.00 $1.25, $1.50 to $2 00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high, 50c to 60c.

Primula Chinensis, in bloom, 5¼ to 5½ in. pots, $2.00 per doz. **Primula Obconica,** 4-in. 10c.

Begonia Gloire de Lorraine, specimen plants, large 6-in. pots 75c to $1.00.

Azaleas, Apollo (red), in bloom, 75c to $1.00; Simon Mardner and four other varieties, 60c, 75c to $1.00.

Please state if in or out of pots.

All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN

Importer, Wholesale Grower and Shipper of Pot Plants,

1012 W. Ontario St., **PHILADELPHIA, PA.**

Pansy Seed

Oldest Pansy Specialist in Germany.

New Crop, Only First Quality.

	Per ⅔ oz.
Giant-flowered Trimardeau	$1.50
Cassier	2.50
Germania	2.50
Fine Spotted Odier and Bugnots	2.00

Write for price on larger lots.

C. SCHWANECKE,

Oschersleben, Germany.

Pelargonium Rooted Cuttings

15 varieties, $2.50 per 100.

BEGONIAS, flowering kinds, $1.75 per 100.

VERBENAS, 70c per 100; $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100; $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000.

All Rooted Cuttings. Express prepaid.

Cash with order. Write

S. D. BRANT, Clay Center, Kan.

MONTCLAIR, N. J.—Fire was discovered early January 29 in the greenhouses of A. S. Wallace, 29 North Fullerton avenue. When the firemen arrived the packing-room of the plant was in flames. In order to save the glass in the establishment, water was not turned on, but, instead, the chemical engine was used and the fire eventually got under control. The loss to the building is about $150 but the loss of the plants could not be estimated, as the gas pipes were pulled apart and the leaking gas and smoke from the burning building likely caused a large damage. The fire was caused by an overheated flue near the boilers. Mr. Wallace spoke highly of the good judgment of the fire department in not turning on streams of water.

VERBENAS

62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection	$ .75 per 100;	$ 6 00 per 1000
Plants, our selection	2.50 per 100.	20.00 per 1000
Rooted Cuttings, purchaser's selection	.90 per 100;	8.00 per 1000
Plants, purchaser's selection	3.00 per 100;	25.00 per 1000

Carnations

All the Best New and Standard Varieties. Send for circular.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS...

60,000 S. A. NUTT

Grown in 2-inch pots; all graded to an even size. No yellow or dead leaves. Just right for 4-inch pots. Nothing but good plants put up in order. They are sure to please you, **$2.00** per 100; **$20.00** per 1000. Money order or draft must accompany all orders.

C. B. KNUTH

Wholesale and Retail Grower of Bedding Plants,

11801 St. Clair Ave., CLEVELAND, O.

SURPLUS STOCK

	Per 100
300 Cyclamen, assorted, budded, 3-in pots	8 00
150 Chinese Primroses ready for shift 2½-in "	5 00
200 Cinerarias, Dwarf, " " 3-in. "	6 00
100 Whitmani Ferns, 2½-in. pots	5 00
100 " " 3-in. pots, extra fine	12 00
75 Boston Ferns, 3 in. pots	6 00
75 Piersoni Ferns, 3 in. pots	8 00
75 " " 2½-in. pots	$ 5 00
50 " Elegantissima Ferns, 2½-in. pots	5 00

Prices on Perennials on application.

ROSES	Per 100
Clothilde Soupert, 2-year field grown	$18 00
Anna Mueller, " "	15 00
Crimson Rambler, " " $12 50, $16.00,	18 00

PERENNIAL GARDENS CO., Toledo, Ohio.

PANSY PLANTS.

100 000 large flowering from field beds. 50c per 100; $2 50 per 1000.

Geraniums 2½-in. pots, my selection, $3 00 per 100.

Asparagus Plumosus

2¼-in. pots $2 00 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

7 in pots, 34 to 36-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in tubs, 42 to 48-in. high	5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

English Ivy

Rooted Cuttings $2.00 per hundred.

JOHN NYFLOT

7311 Florissant Ave., ST. LOUIS, MO.

Tuberose Bulbs

GENUINE MEXICAN EVERBLOOMING

If you have never grown these for summer cutting, you have overlooked a fine thing.

1st size	$10 00 per 1000
2nd size	8.00 per 1000

Each bulb will produce two to six spikes.

FURROW & COMPANY

Guthrie, Oklahoma.

Mention the American Florist when writing

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Wittbold FLORIST

Phoenix Canariensis 9-in. pots, 3½ to 4-feet above the pot, 8 to 10 leaves at $2.50 each,
KENTIAS, LATANIAS, PANDANUS, FERNS, PERENNIALS, SHRUBS, ETC.
Assorted Ferns for Ferneries, $3.00 per 100; $30.00 per 1000.
ORDER NOW.
Send for Complete Price List.
THE GEO. WITTBOLD CO.,
1657 Buckingham Place, CHICAGO.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100
Boston Ferns 2¼-inch, $3.00 per 100.
Henry H. Barrows & Son, WHITMAN MASS.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000; 2-in., $16.00 per 1000
No order taken for less than 1000.
Drake Point Greenhouses, Yalaha, Florida

LARGEST STOCK OF ALL
Belgian Plants
AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.
LOUIS VAN HOUTTE, PERE
GHENT, BELGIUM.

Ferns for Dishes.
Assorted Varieties.
From 2-in pots, $3.50 per 100; $30.00 per 1000.
FRANK OECHSLIN
2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

Rooted Cuttings per 100 prepaid. Coleus 60c. Fuchsia, $1 00: Pilea, 75c; Alternanthera, red and yellow 50c: Vinca variegated, 80c: Ageratum blue 60c: Heliotrope, blue, 80c. Cash.
Shippensburg Floral Co., Shippensburg Pa.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.
Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Louisville.

The Florists' bowling club met Monday night and had a very good time, Capt. Walker's team defeating Capt. Fred L. Schulz's three straights. Following are the scores:

	1st.	2nd.	3rd.
Fred L. Schulz	100	136	151
James Doerr	134	116	140
Andy Brand	93	147	135
Jacob Schulz	117	110	121
Louis Kirch	95	124	116
	101	101	101
Total	640	734	764
Wm. G. Walker	138	150	138
Geo. E. Schulz	152	117	168
Jos. Wettle	123	145	137
Geo. Stark	145	115	110
Robt. Miller	122	119	160
Karl Rabe	84	125	96
Total	764	771	809

Geo. E. Schulz was high with 168 and Karl Rabe was low with 84. F. L. S.

At Washington.

In the big bowling tournament, the florists' team stands third in Class B having succeeded in making 2,568 pins. In Class A the Agricultural team made 2,275. Shaffer and Hamner succeeded in capturing second prize in the doubles. The Baltimore, Philadelphia and Washington captains are arranging a Tri-city game, the first series of which is to be played at Baltimore. G. S.

GERANIUMS.

Our Geranium catalogue describes one of the largest and best collectons in this country, including the best Standards and Novelties 2-inch pots.
$2.00 per 100 and up.

Hardy Pompon Chrysanthemums Every grower of Chrysanthemums will want to grow the Pompons next fall. We have the best collection to select from, and are acknowledged to be headquarters. $2.00 per 100. Special prices on large lots.

Lobelia

Kathleen Mallard, the new double Blue Lobelia We shall continue this week to offer this novelty of exceptional merit at the special price of $2.00 per 100.

Dahlias We have a splendid collection in plants for next spring or roots next fall. Ask for list and prices.

We also offer a general collection of bedding stock.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Orchids!

We beg to offer the following
East Indian Orchids
just arrived in fine condition.

	per doz.
Dendrobium Wardianum, fine plants	$18 00
" " stronger	30 00
" **crassinode,** fine plants	24 00
" **primulinum,** fine plants	30 00

Others to followin rapid succession. Write us for prices on any Orchids you may require.
LAGER & HURRELL,
SUMMIT, NEW JERSEY

ORCHIDS
We are booking orders now for delivery early in the Spring of next year, on all commercial **Cattleyas** and **Novelties.**
Our prices are right and our guarantee perfect. We sell only first class goods.
CARRILLO & BALDWIN, Secaucus, N. J.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World.
SANDER, St. Albans, England.
NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM.** Agent.

A Big Bargain to close out
Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100: extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each. $7.50 per doz.
Cash with order.
WALTER W. COLES, Kokomo, Ind.

A FEW GOOD THINGS YOU WANT.
Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in. $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in. pots, $2.50; 3-in., $5.00 per 100. Mme. Salleroi, 2-in. $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-inch, $2.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order.
GEO. M. EMMANS, NEWTON, N. J.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Dbl. Petunia, 10 kinds, 2-in., 2c.
Geraniums, single and dbl. Grant, Buchner, etc. 2-in. 2c.
Ageratum, 2-in. 2c. **Rose Geraniums,** 2-in. 2c.
ROOTED CUTTINGS, prepaid per 100: **Cuphea** 75c; **Paris Daisy,** white, yellow; **Swainsona** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c; $8 00 per 1000; **Alternanthera,** 3 kinds, 50c; **Ageratum,** 50c. **Coleus,** 60c per 100: **Artillery plant, Hardy pinks,** 75c. **Flowering Begonias,** $1.25. **Fuchsias,** 8 kinds, $1.00. **Salvia** Splendens, Bonfire, 75c. 2-in. 2c. **Parlor Ivy,** 75c. **Alyssum** Doube 75c,; 2-in. 2c.
Cash or C. O. D.
BYER BROS., Chambersburg, Pa.

Alternantheras
Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4 00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,
225 W. 16th St., DAVENPORT, IOWA

300 for $5.00
Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000
J. C. SCHMIDT, Bristol, Pa

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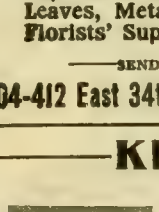

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Carnations, Apple Blossom, Wanoka. Wanoka Greenhouses, Barneveld, N. Y.

Carnations, leading vars. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Carnation Lucille, $12 per 100; $100 per 1,000. A. F. Longren, Des Plaines, Ill.

Carnations, Standard var. J. L. Dillon, Bloomsburg, Pa.

Carnations, Mrs. J. C. Vaughan and O. P. Bassett. Vaughan's Seed Store, Chi. and N. Y.

Carnations. Wood Bros., Fishkill, N. Y.

Carnations. A. M. Herr, Lancaster, Pa.

Carnations. Patten & Co., Tewksbury, Mass.

CHRYSANTHEMUMS.

100,000 Mums, R. C., $1.25 per 100; $10 per 1,000; 2-in., $2 per 100; $18 per 1,000. Cash. L. J. Rowe, Titusville, Pa.

Chrysanthemums, Golden Eagle, original stock, 2-in., $10 per 100. F. Dorner & Sons Co., La Fayette, Ind.

Golden Glow, from the original early stock; strong, 2½-in. plants, $6 per 100. C. C. Pollworth Co., Milwaukee, Wis.

Chrysanthemums, Golden Glow, 2¼-in., $6 per 100. Rooted cuttings of 40 commercial vars. S. J. Reuter & Son, Westerly, R. I.

Chrysanthemums, leading vars. Wood Bros., Fishkill, N. Y.

Chrysanthemums. Chas. H. Totty, Madison, N. J.

Chrysanthemum Golden Glow. Eli Cross, Grand Rapids, Mich.

Chrysanthemums, hardy, $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

CINERARIAS.

Cineraria hybrida, 2½ and 3-in., $4 and $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Cinerarias, 2½-in., 300 for $5; 4-in., $5 per 100. J. C. Schmidt, Bristol, Pa.

Cinerarias, dwarf, 3-in., $6 per 100. Perennial Gardens Co., Toledo, O.

COLEUS.

Coleus, R. C., 60c. Byer Bros., Chambersburg, Pa.

Coleus, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Coleus, 10 varieties, 2¼-in., $2 per 100. Jos. H. Cunningham, Delaware, O.

CUPHEAS.

Cupheas, R. C., 75c. Byer Bros., Chambersburg, Pa.

CYCLAMENS.

Cyclamens, well flowered, $6 and $12 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Cyclamens, finest giant strain from 3-in. pots, nice plants, full of buds, 7c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Cyclamens, asst., budded, 3-in., $8 per 100. Perennial Gardens Co., Toledo, O.

DAHLIAS.

Dahlias, leading vars. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

DAISIES.

Daisies, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Paris daisies, giant white and yellow, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Daisies, $2.50 per 1,000. J. C. Schmidt, Bristol, Pa.

DEUTZIAS.

Deutzia gracilis, pot-grown, 7-in., 15c each; $1.50 per doz.; $12 per 100. Lemoine, pot-grown, 7-in., 25c each; $2.50 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and N. Y.

DRACENAS.

Dracæna indivisa, transplanted, 10 to 12 inches, $2.50 per 100; $20 per 1,000; 4-in. pots, $35 per 1,000. Palm Washingtonia robusta, 3-in., $6 per 100, f. o. b. Los Medanos Nursery, Cornwall, Calif.

Dracæna terminalis, $9, $12 and $18 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

FERNS.

Ferns, Boston, 6-in., 50c; 7-in., 75c; $1, $1.25. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c to $1. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50. Amerpohli, 5½-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ferns. 100 Whitmani, 2½-in., $5 per 100; 100 3-in., $12; 75 Boston, 3-in., $6 per 100; 75 Piersoni, 3-in., $8 per 100; 75 2½-in., $5 per 100; 50 Elegantissima, 2½-in., $5 per 100, Perennial Gardens Co., Toledo, O.

Ferns. Boston, 2¼-in., $3; 3-in., $6; 4-in., $12; 5-in., $25; 6-in., $40. Piersoni, 8-in., $100. Scottii, Whitmani and Elegantissima, 2¼-in., $5; 3-in., $10; 6-in., $75. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Ferns, Adiantum Farleyense, $18 per doz.; large cut fronds, $10 per 100. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Ferns, assorted, for ferneries, $3 per 100; $30 per 1,000. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns for dishes, assorted, 2-in., $3.50 per 100: $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Boston, Scottii, Whitmani, Farleyense, all sizes. Samuel A. Woodrow, 53 W. 30th St., New York.

Ferns, Boston, 5-in., 30c each. Geo. M. Emmans, Newton, N. J.

FICUS.

Ficus, 5½ and 6-in., 25c, 30c and 40c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Rubbers. P. J. Berckmans Co., Augusta, Ga.

FUCHSIAS.

Fuchsias. Selected stock from 2¼-in. pots at $2 per 100: Marengo, Speciosa, Mrs. E. G. Hill, double white; Black Prince, Trailing Queen.
H. W. BUCKBEE, Rockford, Ill.
Rockford Seed Farms. Forest City Greenhouses.

Fuchsias, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Fuchsias, 8 kinds, R. C., $1. Byer Bros., Chambersburg, Pa.

GERANIUMS.

Geraniums, 2½-in., my selection, $3 per 100. Jos. H. Cunningham, Delaware, O.

100,000 GERANIUM CUTTINGS.—We are supplying the finest stock on the market, of the following SUPERB BEDDERS; are semi-double. S. A. Nutt, crimson; Peter Henderson, scarlet; Jean Viaud, pink; Beaute Poitevine, salmon; Mme. Buchner, white; top cuttings, well rooted, $1.75 per 100; $15 per 1,000. The W. T. Buckley Co., Springfield, Ill.

Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

Geraniums, Nutt, Jean Viaud and rose geraniums, 2¼-in., $2.50 per 100. Buffalo Cut Flower Co., 495 Washington St., Buffalo, N. Y.

Geraniums, single and dbl. Grant, Buchner, etc., 2-in., 2c. Rose geranium, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Geraniums, S. A. Nutt, 2-in., $2 per 100; $20 per 1,000. C. B. Knuth, 11801 St. Clair Ave., Cleveland, O.

Geraniums, standard varieties, R. C., $1.75 and $15 per 1,000; 2¼-in., $3 and $25 per 1,000. Mosbæk Greenhouse Co., Onarga, Ill.

Geraniums, 2-in., $2 per 100 up. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Geraniums. A. M. Herr, Lancaster, Pa.

GLOXINIAS.

Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

GREENS.

Greens, fancy and dagger ferns, $1.75 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $7.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

Greens, bronze and green galax, 50c per 1,000. Fancy and dagger ferns, $1 per 1,000. Green leucothoe sprays, $2.50 per 1,000; bronze, $4. Rhododendron sprays, $2 per 1,000. Mountain laurel sprays, $2 per 1,000. J. N. Pritchard, Elk Park, N. C.

Greens, evergreens, fancy and dagger ferns, bronze and green galax. Geo. Cotsonas & Co., 53 W. 28th St., New York.

Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala.

Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, Southern wild smilax, case 50 lbs., $2. J. A. Rumbley, Evergreen, Ala.

Greens, smilax, ferns, palm leaves, etc. John P. Scherer, Union Hill, N. J.

Greens, hardy cut evergreens, etc. Henry M. Robinson & Co., 15 Province St., Boston.

HARDY PERENNIALS

Hardy pinks, R. C., 75c. Byer Bros., Chambersburg, Pa.

HELIOTROPES.

Heliotrope, $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Heliotrope, R. C., $1. Byer Bros., Chambersburg, Pa.

Heliotrope, 5 of the best; R. C., $1; 2¼-in., $2.50. Mosbæk Greenhouse Co., Onarga, Ill.

HYDRANGEAS.

American Everblooming hydrangeas, strong field-grown plants, 15 inches and up, $2 per doz.; $15 per 100. Field-grown plants, 8 to 12 inches, $1.50 per doz.; $10 per 100; $90 per 1,000. Lists free. The E. Y. Teas Co., Centerville, Ind.

Hydrangeas. W. & T. Smith Co., Geneva, N. Y.

IRISES.

German iris, 25 named varieties, $2.50 per 100; mixed, $2 per 100. Elmhurst Nursery, Argentine, Kansas.

Iris Germanica and Kæmpferi. E. S. Miller, Wading River, L. I., N. Y.

IVIES.

Ivy, English, R. C., $2 per 100. John Nyflot, 7311 Florissant Ave., St. Louis, Mo.

Ivy, hardy English, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

If you do not find what you need in our Ready Reference Department, write us about it.

LILACS.

Lilac, pot-grown for forcing. Chas. X. Marie LeGraye, Mme. Casimer Perier, Bertha Dammann, Mme. Lemoine, well branched, with buds, $1 each; $10 per doz. Vaughan's Seed Store, Chicago and New York.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley, Reimschneider's Perfection, 3-yr. crowns, $16 per case of 1,000. Holsatia, for late forcing, 3-yr. crowns, $24 per case. Jackson & Perkins, Newark, N. Y.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

Lily of the valley pips. J. M. Thorburn & Co., 33 Barclay St., New York.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., 50c per doz.; $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

MOSS.

Sphagnum moss, 1 bale of 5 bbls., $1.60; 5 bales, $7.25; 10 bales, $13.50; 1 bale of 7½ bbls., $2.25; 5 bales, $10; 10 bales, $18; 1 bale of 10 bbls., $3; 2 bales, $5.50; 5 bales $12.50. Brookville Moss and Peat Co., Brookville, N. J.

Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Johnson Seed Co., 217 Market St., Philadelphia.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn, Mill Track, $6 per 100 lbs. W. C. Beckert, N. S., Pittsburg, Pa.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock. Berckman's dwarf golden arbor vitæ. Althæa Meehanii, weeping mulberry, Magnolia grandi. Azalea Indica, Camellias. P. J. Berckmans Co., Augusta, Ga.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Planes, straight, transp., 10 to 12 ft., $10 per 100; 12 to 14 ft., $12 per 100. Conifers. C. Kerkvoorde, Wetteren, near Ghent, Belgium.

Nursery stock, fruit and shade trees, shrubs, evergreens, tree roses. W. & T. Smith Co., Geneva, N. Y.

Nursery stock, Forsythia, 18 to 24 in., well rooted, $2 per 100. Tamarix, 4 to 5 ft., $6 per 100. Elmhurst Nursery, Argentine, Kans.

Nursery stock, arbor vitæ (Thuya occidentalis) 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, trees, shrubs, roses, evergreens and hardy plants. Mount Hope Nurseries, Box Q, Rochester, N. Y.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock. Storrs & Harrison, Painesville, O.

Nursery stock, conifers, Koster spruce, etc. Kallen & Lunnemann, Boskoop, Holland.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Kentias, latanias. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms, Areca lutescens, 4-in., 3 plants in pot, 25c Kentia Bel., 5½-in., 25 to 30 ins., 50c to 60c each; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each; 5½-in., 20 to 25 ins., 50 to 60c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, Kentia Bel., 7-in. 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, strong, transplanted from fall, almost ready to bloom, finest strains, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Choicest strain of seedling pansies, $3 per 1,000 or 50c per 100. Strong plants ready to transplant. Joy Floral Co., Nashville, Tenn.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

PANDANUS.

Pandanus Veitchii, 6-in., $18 per doz.; specimens, $3 to $7.50 each. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Pandanus. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

PETUNIAS.

Petunias, Dreer's superb single, 2-in., $2 per 100. R. Vincent, Jr., & Sons, White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

POINSETTIAS.

Poinsettias, 35c each; $4 per doz. Samuel A. Woodrow, 53 W. 30th St., New York.

PRIMULAS.

Primula Chinensis in bloom, 5½-in., $2.50 per doz. Obconica, 4-in., 10c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Primroses. Chinese, 2½-in., $5 per 100. Perennial Gardens Co., Toledo, O.

PRIVET.

AMOOR RIVER PRIVET, 300,000, all sizes. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

Rhododendrons, assorted colors, our selection, 8 to 12 buds, $1 each; $9 per doz.; 12 to 18 buds, $1.25 each; $12 per doz.; 18 to 24 buds, $2 each; $20 per doz. Vaughan's Seed Store, Chicago and New York.

Rhododendrons. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Rhododendrons. Kallen & Lunnemann, Boskoop, Holland.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons Jacs Smits, Naarden, Holland.

ROSES.

Roses for forcing: Crimson Rambler, Dorothy Perkins, Lady Gay, XXX, $12 per 100; XX, $10 per 100; No. 1, $8. Hybrid perpetuals: Magna Charta, Mme. Gabriel Luizet, Mrs. Cleveland, M. P. Wilder, F. Levet, Frau Karl Druschki, Mrs. John Laing, Marchioness of Lorne, etc., $10 per 100; U. Brunner, $13; Am. Beauty, $15. Jackson & Perkins Co., Newark, N. Y.

Roses, field-grown, Newport Fairy, 1-year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots, $2 per doz.; $12 per 100; 2-yr., 2 to 3 ft., budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots, $3 per doz.; $15 per 100; 3-yr., 3 to 5 ft., budded, $3 per doz., $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins; Dormant 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz., $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown. 1st size, budded, $2.50 per doz.; $16 per 100; $150 per 1,000; 2nd size, grafted, $2 per doz.; $12 per 100; $100 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1-yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 5-in., 35c each; $3.50 per doz.; $25 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Vaughan's Seed Store, Chicago and New York.

ROSES. Strong, well rooted cuttings, $2 per 100; $17.50 per 1,000:
Bride, Golden Gate, Chatenay,
Bridesmaid, Richmond, Uncle John.
H. W. BUCKBEE, Rockford, Ill.
Rockford Seed Farms. Forest City Greenhouses.

Roses. White Baby Rambler, 2½-in., $1 per doz.; $6 per 100; 3-in., $1.50 per doz.; $10 per 100; 4-in., $2.50 per doz.; $20 per 100. Baby Dorothy, 3-in., $2 per doz.; $15 per 100; 4-in., $3 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, dormant field-grown, Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, F. Levet, Jacq., Prince C. de Rohan, Magna Charta, U. Brunner, Giant of Battles, etc., $16 per 100; $1.50 per 1,000. Dingee & Conard Co., West Grove, Pa.

Rose White Killarney, 2¼-in., own roots, $30 per 100; 250, $70; 500, $125; 1,000, $250; grafted, $5 per 100 additional. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Roses, low budded on Rosa canina, our selection, $4 per 100; purchaser's selection, $5 per 100. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Roses. C. Soupert, 2-yr., field-grown, $18 per 100. Anna Mueller. $15. Crimson Rambler, $12. $16, $18. Perennial Gardens Co., Toledo, O.

Rose My Maryland, grafted, 2½-in., $20 per 100; $150 per 1,000; own roots, 2½-in., $10 per 100; $90 per 1,000. S. J. Reuter & Son, Westerly, R. I.

Rose White Killarney, $30 per 100; $250 per 1,000. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Roses, Am. Beauty, R. C., $3 per 100; $25 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Roses. White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, 400 sorts, 2½ and 4-in. Leedle Floral Co., Springfield, O.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses for forcing. W. & T. Smith Co., Geneva, N. Y.

Rose White Killarney. Waban Rose Conservatories, Natick, Mass.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses. Chas. H. Totty, Madison, N. J.

SALVIAS.

Salvia splendens, Bonfire, R. C., 75c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

SEEDS.

Seed pansy, Trimardeau, 2-3 oz., $1.50; Cassier, 2-3 oz., $2.50; Germania, 2-3 oz., $2.50; Spotted Odier and Bugnots, 2-3 oz., $2. C. Schwanecke, Oschersleben, Germany.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds, natural grass, clover, agricultural and forest tree seeds, grass seed mixtures. Conrad Appel, Darmstadt, Germany.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

If you do not find what you need in our Ready Reference Department, write us about it.

Seeds, alyssum, Vaughan's Little Gem, lb., $3.50; tr. pkt., 10c; oz., 85c. Asparagus plumosus nanus, 100 seeds, 50c; 1,000 seeds, $3.50; 5,000 to 10,000 seeds, $3.25 per 1,000. Begonias, Berna, tr. pkt., 15c. Salmon Queen, Semperflorens, Red Lubecca, tr. pkt., 25c. Lobelia, Bedding Queen, tr. pkt., 15c; ⅛ oz., 25c; oz., $1.50; Speciosa, tr. pkt., 10c; oz., 55c: Hambrugin, tr. pkt., 25c; Maurandya, ¼ oz., 25c; tr. pkt., 10c; oz., $1. Petunias, Vaughan's best mixture, large flowering, tr. pkt. (1,000 seeds) 50c; 3 pkts., $1.25; Howard's Star, tr. pkt., 10c; oz., 80c; Snowball, ⅛ oz., 25c; tr. pkt., 10c; Salvia Splendens, Clara Bedman or Bonfire, tr. pkt., 25c; oz., $2.50; Salvia Zurich, ¼ oz., $1.25; tr. pkt., 25c. Smilax, new crop, lb., $3; tr. pkt., 10c; oz., 25c. Stocks, Prince Bismarck, tr. pkt., 25c. Thunbergia, mixed, tr. pkt., 10c; oz., 40c. Verbenas: Defiance, tr. pkt., 10c; oz., 80c; Firefly, tr. pkt., 15c; oz., $1.20; Mammoth mixed, tr. pkt., 10c; oz., 80c; white, tr. pkt., 15c.; oz., $1; rose and carmine shades, tr. pkt., 25c; oz., $2; purple, tr. pkt., 25c; oz., $2; Mayflower, tr. pkt., 15c; oz., $1; choice mixed and Venosa, tr. pkt., 5c; oz., 20c; Lemon (citriodora), tr. pkt., 20c; oz., $1.25; Vaughan's Best Mixture, tr. pkt., 25c; ¼ oz., 50c; oz., $2; 2 ozs., $3.50. Vaughan's Seed Store, Chicago and New York.

Seeds, Salvia Bonfire, $2.25 per oz.; tr. pkt., 25c; Splendens, $1 per oz.; tr. pkt., 15c; Zurich, 1-16 oz., $1.25; tr. pkt., 50c. Verbenas, oz., $2; tr. pkt., 25c. Lobelia Crystal Palace, tr. pkt., 25c; Speciosa, tr. pkt., 10c. Begonia Vernon, 1-16 oz., 50c; tr. pkt., 25c; Erfordii, tr. pkt., 25c; Semperflorens magnifica, 1-32 oz., $1.50; tr. pkt., 50c. Stocks, Cut and Come Again, ⅛ oz., 50c; tr. pkt., 25c. Primula obconica gigantea, 4 colors and mixed, tr. pkt., 50c. Asparagus plumosus, $4 per 1,000. Sprengeri, 75c per 1,000. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

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Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

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Seeds, Begonia Gracilis Luminosa, Erfordi; Zangen's Bedding Queen; Salvia Zurich, Fireball, King of the Scarlets, tr. pkt., 50c; 6 pkts., $2.50. O. V. Zangen, Hoboken, N. J.

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Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

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Onion seeds. We are extensive growers and dealers. Schilder Bros., Chillicothe, O.

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Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton C. Zvolanek, Boundbrock, N. J.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, choice German flower seeds. Fredrick Roemer, Quedlinburg, Germany.

Seed, onion Southport White Globe 1908 crop, Laughlin Seed Co., Kenton, O.

Seeds, field seed corn. Ratekin's Seed House, Shenandoah, Iowa.

Seeds, Bermuda onions. Wildpret Bros., Port Orotava, Teneriffe, Canary Islands.

Seeds. D. Landreth Seed Co., Bristol, Pa.

Contract Growers.

Seeds, new sweet peas: Mrs. Walter Wright Spencer, Senator Spencer, Black Knight Spencer, Gaiety Spencer, Prince of Wales Spencer, Juanita Spencer, Blanch Ferry Spencer, Ruby Spencer, New nasturtiums: Dwarf Orange var. foliage, Tall Croesus, Tall Scarlet, Tall Salmon var. foliage. Dwarf var, Ivy Leaf Princess, Golden Rose (gold leaved), Lilliput Lady Cherry. Routzahn Seed Co., Arroyo Grande; Calif.

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Seeds, lettuce, onions, sweet pea, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seed beans. F. L. Hogue, Carpinteria, Calif. Grower for the wholesale trade only.

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Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

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Smilax. Wood Bros., Fishkill, N. Y.

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Spireas. Jacs Smits, Ltd., Naarden, Holland.

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Verbenas, R. C., 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Verbenas. J. L. Dillon, Bloomsburg, Pa.

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Berning, H. G., 1402 Pine St., St. Louis.

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Deamud, J. B., Co., 51 Wabash Ave., Chicago.

Ford Bros., 48 W. 28th St., New York.

Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., N. Y.

Guttman, Alex. J., 34 W. 28th St., New York.

Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

Hunt, E. H., 76 Wabash Ave., Chicago.

Kennicott Bros. Co., 48-50 Wabash, Chicago.

Keuhn, C. A., 1122 Pine St., St. Louis.

Krueger Bros., Toledo, O.

Langjahr, Alfred H., 55 W. 28th St., N. Y.

McCallum & Co., 937 Liberty Ave., Pittsb'g. Pa.

McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.

McKellar, Chas. W., 51 Wabash Ave., Chicago.

McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.

Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.

Millang Bros., 41 W. 28th St., New York.

Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.

Murphy, Wm., 311 Main St., Cincinnati, O.

Niessen Co., Leo, 1208 Arch St. Philadelphia.

N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.

Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.

Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.

Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.

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Randall, A. L., Co., 19 Randolph St., Chicago.

Raynor, John I., 49 W. 28th St., New York.

Rice Bros., 128 N. 6th St., Minneapolis, Minn.

Robinson, Henry M. & Co., 11-15 Province St., Boston.

Schreiner, Nicholas C., 41 W. 28th St., N. Y.

Seligman, John, 56 W. 26th St., New York.

Sheridan, Walter F., 39 W. 28th St., N. Y.

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Traendly & Schenck, 44 W. 28th St., N. Y.

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Welch Bros., 226 Devonshire St., Boston.

Winterson, E. F. Co., 45-49 Wabash, Chicago.

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Young, John, 51 W. 28th St., N. Y.

Young & Nugent, 42 W. 28th St., New York.

Zech & Mann, 51 Wabash Ave., Chicago.

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Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.

Bruns, H. N., 1409-11 W. Madison, Chicago.

Budlong, J. A., 37-39 Randolph St., Chicago.

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Hill, The E. G. Co., Richmond, Ind.

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Peacock Dahlia Farms, Atco, N. J.

Poehlmann Bros. Co., 35-37 Randolph, Chicago.

Reinberg, Peter, 35 Randolph St., Chicago.

State Nursery Co., Helena, Mont.

Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

Weiland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

Woodrow, Samuel A., 53 W. 30th St., N. Y.

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Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.

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New Orleans, La.—U. J. Virgin, 833 Canal St.

New York—M. A. Bowe, 1294 Broadway.

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St. Louis, Mo.—Young's, 1406 Olive St.

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Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress"; everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

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Wire work, second to none. Wm. H. Woerner, 520 N. 16th St., Omaha, Neb.

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Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard azalea pots. The Keller Pottery Co., 213-223 Pearl St., Norristown, Pa.

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FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

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Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

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Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots, Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, N. Y.

If you do not find what you need in our Ready Reference Department, write us about it.

PUMPING ENGINES.

Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

SPRAYERS.

U-N-I-T Globe Sprayer, $3.50 prepaid. J. F. Cass Mfg. Co., Dept. A., Detroit, Mich.

The Crestline "Sunshine" spraying pump. Crestline Mfg. Co., Crestline, O.

STAKES.

Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.
Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Supplies. Cape flowers, cycas leaves, metal designs and all florists' supplies. A. Herrmann, 412 East 34th St., New York.

Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburg, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

Supplies, wire designs, etc. The Cleveland Cut Flower Co., 215 Huron Road, Cleveland, O.

Supplies and wire designs, etc. Henry Kusik & Co., 73 Western Ave., Minneapolis, Minn.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

Supplies of all kinds. A. L. Randall Co., 19-21 Randolph St., Chicago.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VENTILATING APPARATUS.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilators, the Standard ventilating machinery, original machine with self-oiling cups, most powerful, least complicated, very compact. E. Hippard, Youngstown, O.

Foley ventilating apparatus, unexcelled. Send for circulars and estimates. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Ventilators. The Advance Ventilating Apparatus. Write for estimates and circulars. The Advance Co., Richmond, Ind.

Ventilators. Evans' Improved Challenge ventilating apparatus. Quaker City Machine Works, Richmond, Ind.

Ventilators, hand ventilating, etc. The King Construction Co., N. Tonawanda, N. Y.

Make Your Want Known

If you want to get rid of it.
A want advertisement in the

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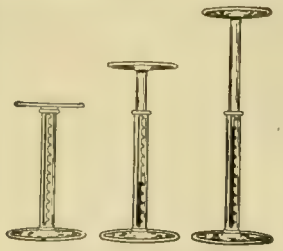
will do what you want. Try it now. Back of every ad is a real want, so it pays to answer them. : : : : :



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Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:
Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

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TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

THE BEST Bug Killer and Bloom Saver

For **PROOF** Write to

P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

Carman's Antipest

INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

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FLUSHING, N. Y.

Unrivalled for all Purposes.

THOMSON'S Vine, Plant and Vegetable MANURE

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES

The result of many years' **Practical Experience.** Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants. **Freight paid on quantities.** Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.

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Tweed Vineyard, Clovenfords, Scotland.

Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

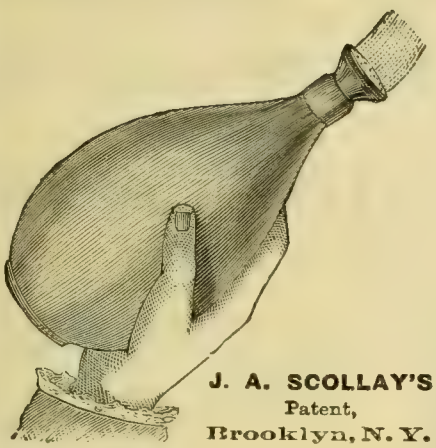
THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

"Natural Guano" PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

WHATELY, MASS.—John H. Pease is building a greenhouse.



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FOR CUT FLOWER TRADE, Also the

Scollay Putty Bulb

FOR GLAZING GREENHOUSES, Etc.

The Scollay Plant Sprinkler is in its 35th year. Thirty-five years of experience should count for something—we have given attention to quality in every respect—making of seams—selection of high-grade rubber. During these 35 years there have appeared more than 35 imitations, all the way from hand levers—tee ends—breakable tops down to Chinese and Boston Blowers—and, after all, the fact remains the same, that we are still the real thing in rubber sprinklers, etc. No one is so new or old in the cut flower trade that he can keep shop without **Scollay's Rubber Plant Sprinklers.** Every sprinkler guaranteed free from imperfection in manufacture.

For Sale by All Prominent Seedsmen.

JOHN A. SCOLLAY, 74-76 Myrtle Ave., **Brooklyn, N. Y.**

Pittsburg.

GOOD DEMAND ON MCKINLEY DAY.

The past week can be classed as carnation week in this city. Last year McKinley day did not cut much of a figure, but a surprising demand sprung up this year for carnations and soon cleaned up the market. The other carnation day here was on January 30, known as Firemen's day, when white carnations were worn, and the demand caused a general clean-up. About the only drug there is at present is violets; when one can buy specials on the street, 100 in a bunch for 25 cents, "enough said." Lilies are again in good supply. Lily of the valley and gardenias have been moving slowly, while quite a demand for cattleyas is noticed. Bulb stock is not very plentiful yet, and what comes in sells nicely. Greens are quite scarce.

NOTES.

One of our out-of-town florists sold a party $18 worth of funeral designs some months ago on credit, and the account was considered a dead one. The florist in passing the cemetery thought he might at least have his wire frames back, and took them along home. The next day he was charged with stealing the frames, but was informed that by giving the party who bought the flowers a receipt in full and paying costs he would be let off, which he did.

Those who attended the American Carnation Society Convention at Indianapolis have returned, all saying they had a delightful time. Everyone is pleased to hear the 1910 convention is to be held in this city.

On the night of January 24 some one maliciously opened the ventilators of one of the carnation houses of F. H. Westhoff, Allison Park, but it was discovered in time to prevent much damage.

M. Patton, proprietor of the Valley Greenhouse Co., Sewickley, has just returned from a two months' trip, looking up machinery for an ice plant which he intends to erect.

The Huscroft boys, Steubenville, O., have the sympathy of all the trade between here and Columbus in the death of their mother, which occurred January 29 from grip.

Linn & Sons have bought the greenhouses of T. J. Allen, Lock No. 4, and will conduct a retail business there in the future.

The South View Floral Co. has moved across the street to the building formerly occupied by M. F. Stafford.

Ernest Fisher and family intend leaving for California, where they will make their home, February 18.

H. KUSIK. O. R. ECKHARDT

HENRY KUSIK & CO.

Wholesale Florists' Supplies.

Manufacturers of WIRE DESIGNS.

Ask for Catalogue. **73 Western Ave., MINNEAPOLIS, MINN.**

Spraying Pump

The Crestline "Sunshine" has solid brass cylinders. Can be used as all-'round pump. Free circular. Ask for information on any pumping problem.

We make pumps for all uses.

Crestline Manufacturing Co.

Pumps, Sinks, Hose. **Crestline, Ohio**

Miss Carrie Jordon has secured the Foss stand at the Diamond Market.

Joseph Seamann, Washington, Pa., is reported ill.

Visitors: H. C. White, Gasport, N. Y.; H. D. Rohrer, Lancaster; —— Koerble, Jeannette; Thos. Malbranc, Johnstown; Morris Shattls, New York; Martin Reukauf, S. S. Pennock and John McIntyre, Philadelphia; Manifold, of J. H. Seamann Co., Washington, Pa.; L. S. Reuter, Westerly, R. I., and S. Wertheimer, New York. J.

Maryville, Mo.

The prospects are for a large spring trade here in all lines, and January sales have been better than for December, as there was something doing every day despite the cold weather.

The severe storm which swept this section of the country January 28 and 29, blowing from 50 to 60 miles an hour and even more at other points of the state, resulted in some severe losses to those in the trade, but Alfred Engelmann reports a damage of only about $1.50 by the breaking of a dozen panes of glass out of the 10,000 feet of glass composing his establishment.

P. Mergen lost more heavily, as the plate glass was broken in his store front and five rows of glass taken out of the center of his rose house, the wind breaking in the north side and going right through the south side of the house, putting it out of commission. E.

HUMBOLDT, TENN.—T. W. Rogers has acquired an interest in the Humboldt Nursery Co.

MR. CARNATION GROWER

To raise the most thrifty plants use Salt, Potash or Soda in the **U-N-1T Globe Sprayer.** Application easy; results effective; price reasonable. References: Any grower who has used it or any trade journal or supply house. Write for circulars or better still **order one now** from your dealer or sent prepaid on receipt of $3.50.

Address Dept. A.

J. F. CASS MFG. CO., Detroit, Mich.

Garden City Sand Co.

Chamber of Commerce Bldg., CHICAGO.

Phone: Main 4827.

BUILDING AND PROPAGATING SANDS.

Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,

R. I. W. DAMP RESISTING PAINT.

Florists' Refrigerators

Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.

McCRAY REFRIGERATOR CO.

960 Mill Street, KENDALLVILLE, IND.

STANDARD

MAILING TUBES

The strongest and lightest package for sending **Roses** and other plants by mail. Cost less and afford better protection. Samples and prices sent on request.

Standard Mfg. Company, Coatesville, Pa.

THE WHILLDIN POTTERY COMPANY
THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

Montreal.

The annual dinner of the Gardeners' and Florists' Club held at the Strathcona café, St. Catherine street, was a great success. About 50 members sat down to do justice to a very good bill of fare. The speeches were able and to the point. The first toast, "The King," was cheerfully joined in by all present. The toast, "Our Country," was responded to by Professor Blair, of the MacDonald College, St. Anne de Bellevue. Mr. Blair dwelt at great length on the immensity of our country, especially the west, with its undeveloped resources, and assured his audience that before many years the west would be as great a fruit growing country as Ontario is now. Varieties of apples have been developed that are perfectly hardy out there, and are being continually improved on. Speaking on our profession the professor said a great mistake is made by the majority of us to do just so much and no more; let us do all we can and put all the dignity we possess into it and elevate it to the level above common labor.

To the toast "Sister Societies" Geo. Trussel responded on behalf of the Montreal Horticultural Society. Mr. Trussel said that the society might have done more work in the past than at present, but a lot of good work had been done in the 29 years he had been a member, and he hoped the society would never cease.

John Walsh spoke for the Canadian Horticultural Society, which had done good work at its conventions in the past, but promised greater things still at the coming ones, especially when we meet in this city in 1910. He urged that a strong delegation be sent to Cincinnati to represent this city and procure the meeting for us. Harry Laing had some nice things to say of the Royal Horticultural Society of England, of which he is a member.

The Society of American Florists was represented by S. Wertheimer, of New York. The speaker said that he had no doubt that the S. A. F. would meet in Montreal if a strong delegation went to Cincinnati, whereupon several signified their intention of going. James Kean was presented with the certificate of merit awarded at the January meeting for a vase of White Perfection carnation.

A. C. Wilshire responded to the toast of "The Florists." He said that there is more money made, more flowers sold, better prices obtained than before; there are more stores and some of them as good as those in Boston and New York. There was only one thing the florists had to complain of; that was the need of a really good wholesale (commission) florist. R. W. Whiting spoke for the private gardener. A. Ferguson spoke for the seedsmen. Songs were rendered by Messrs. Clark, Walker, Langford, Pidduck and Patten. LUCK.

MENOMINEE, MICH.—Chas. Schultz has purchased the property situated on the corner of State street and Dunlap avenue and formerly the site of the old Globe hotel. He intends to build a large addition to his greenhouse on the newly acquired property, and will also build an office on the corner. The addition will be made thoroughly modern in every respect, with the latest improved heating and ventilating systems and the building of it will begin early in the spring. Mr. Schultz has been contemplating the enlarging of his houses for some time, and when the construction is completed he will have one of the finest greenhouses in the upper peninsula.

THE KELLER POTTERY COMPANY
Manufacturers of **Florists' Red Standard Pots,**
AZALEA POTS, BULB AND FERN PANS, ETC.
Write for Price List. 213-15-17-19-21-23 Pearl St., **NORRISTOWN, PA.**

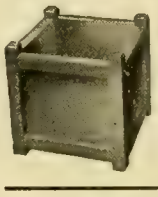
SYRACUSE RED POTS
Spell "Prosperity"
For Nurserymen.
One season's trial is convincing proof of their superiority.
Get price list
SYRACUSE POTTERY CO., Syracuse N. Y.

Standard Flower Pots!
Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in.,	in crate, $4.88	144 6-in.,	in crate, $3.16
1500 2¼	" 5.25	120 7	" 4.20
1500 2½	" 6.00	60 8	" 3.00
1000 3	" 5.00	HAND MADE	
800 3½	" 5.80	48 9-in.,	in crate, $3.60
500 4	" 4.50	48 10	" 4.80
456 4½	" 5.24	24 11	" 3.60
320 5	" 4.51	24 12	" 4.80
210 5½	" 3.78	12 14	" 4.80
		6 16	" 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

DECORATING FLOWER POTS
A BUSINESS NEED
Send fifteen cents in stamps and we will mail you a cover, price list and booklet, explaining all about these great covers.
EVER READY FLOWER POT COVER CO.,
W. H. Grever, Manager.
146 Hughes Ave., **Buffalo, N. Y.**

MISSION PLANT BOXES.

Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.
WAGNER PARK CONSERVATORIES, Sidney, Ohio.

Standard Flower Pots
Porosity and Strength Unsurpassed.
Write for Price
A. F. KOHR,
1521 Leavitt Street, CHICAGO

GEO. KELLER & SON,
Manufacturers of
Red Pots
Before buying write for prices.
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CHICAGO, ILL.

Kramer's Pot Hangers
For Sale by Wholesale Seedsmen, Florists and Supply Dealers.
Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.
I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

H. BAYERSDORFER & CO.,
Florists' Supplies.
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Send for our new catalogue.

Florist's Red Pots
OF FINELY PREPARED CLAY.
Process and catalogue sent on request.
The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

Those Red Pots
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS,
BULB PANS AND AZALEA POTS.
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OUR SPECIALTY
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Our Prices on Hotbed Glass Will Surprise You.
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Retains the heat, excludes the cold.
Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
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Special catalog for greenhouse material.

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IMPORTERS and JOBBERS
GREENHOUSE GLASS
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Window Glass, Paint, Putty, etc.
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Lock the door before the horse is stolen, and insure your glass before it is broken.
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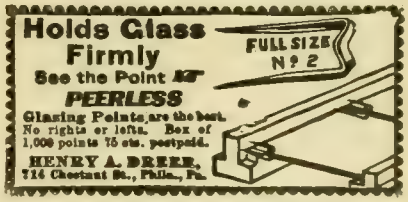

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— Specialists in —
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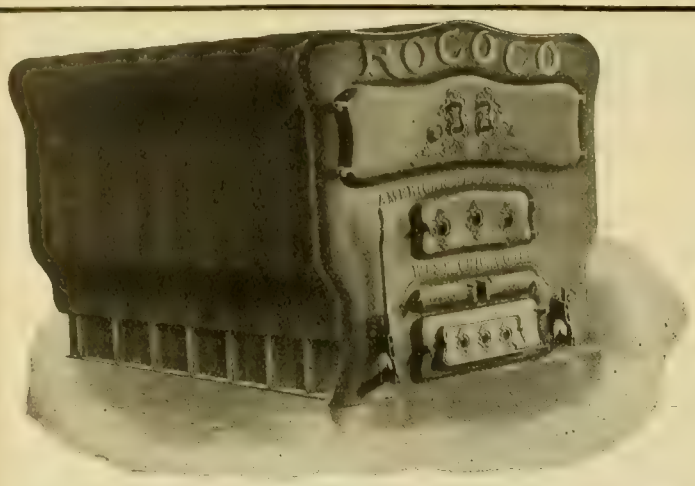
NO HANDLING. NO BREAKAGE.

BATON ROUGE, LA.—The modern and up-to-date greenhouses at the State University have been completed and will be accepted shortly.



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Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
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The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.
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Estimates Furnished Free. Our Greenhouse Engineer will furnish you with an estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

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BOILER FLUES Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

BOILER TUBES 20 carloads of 4-in. Boiler Tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

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Hot Water Heating.

ED. AMERICAN FLORIST:—

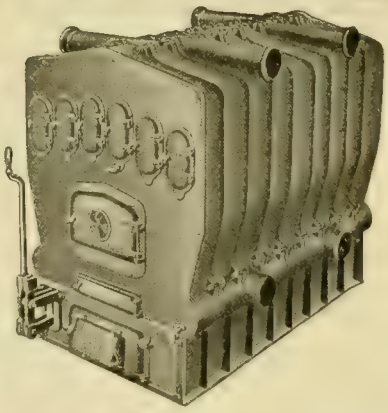
I can buy a large hot water heater and a quantity of pipe at a price that probably gives me the heater free, though it has only been in use three years and is in good condition. I have two greenhouses, 16x75 feet, 30 feet from my dwelling house. Would it be advisable to put the heater under the dwelling house and what size flow and return would be needed? How many runs of 2-inch pipe would be necessary to heat the greenhouses to 60° when the temperature outside is 20° below zero? My intention is to heat the dwelling also.

Kansas. E. H. M.

There would be no particular objection to placing the boiler in the cellar of the dwelling, if the top of the boiler will stand at least three feet below the lowest part of the returns in the greenhouse. The main heating pipes leading to the greenhouse can be run through a trench made of cement about two feet wide and one foot deep inside. Then wrap the pipes in asbestos pipe covering. For the flow and return 4-inch pipes should be used. To maintain a temperature of 60° use twelve 2-inch pipes in each house, at least four of which should be flows.

L. R. T.

MISHAWAKA, IND.—J. L. Carney has been much annoyed by impostors who are peddling flower roots and bulbs from house to house in South Bend and other nearby cities saying they came from his place.



What We Know On Heating

WE were heating engineers many years before we were greenhouse builders, which means no concern has had as long or an equal heating experience. This experience of ours will save you troubles — and money.

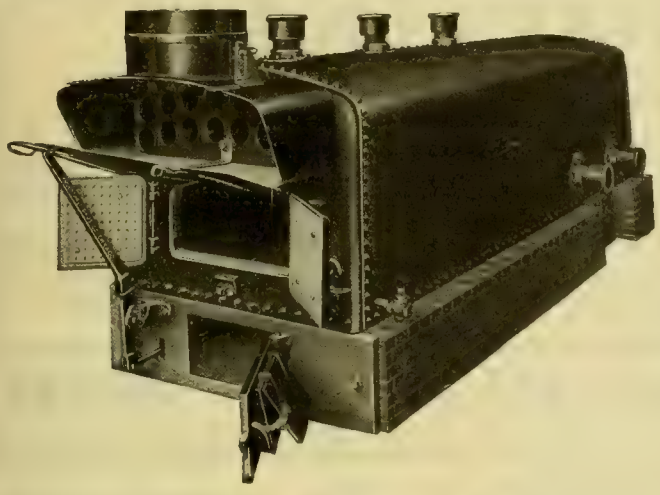
Write us.

Hitchings & Company
1170 Broadway New York

For Best Results Advertisers should mail new advertisments and changes so as to reach us on Monday.

Kroeschell Boilers

Now is the Time to Place Your Order



Made in 15 sizes. Heats from smallest houses up to 50,000 feet of glass. Will maintain 60 degrees at 15 below zero outside.

The new house which I have just completed, 43 feet wide by 265 feet long, and **piped according to your instructions**, does not vary more than two degrees all over the house at any time, and I consider that remarkable for so large a house.

The Generator purchased from you some time since and which is installed in connection with this system, is giving excellent satisfaction. It not only adds to the capacity of the boiler on account of the increased velocity of hot water circulation, and consequently requiring less piping, but also seems to maintain a steadier and more even temperature all over the house

Another **advantage of this system of heating** is that where roses are grown, sulphur applied to the pipes for **checking mildew** is much more effective. STEPHEN MORTENSON,
Jan., 1909. Southampton, Pa.

The results produced by the Kroeschell Generator are a very great surprise, and are a complete cure of all my former heating troubles.

My tank is only two feet above highest point of piping, so that as soon as the water became hot, the tank would overflow and flood my work room: no more of that now.

With the Generator I can keep low temperature or can get the **pipes so hot that we cannot touch them.** In less than twenty minutes all houses are thoroughly and equally heated, no matter how many coils are turned on, and all this is due to the Generator, which costs only $35.

I feel that no hot water system should be without the Kroeschell Generator. RUDOLPH NAGEL.

P. S.—For **boiler and piping** system I can say **"Perfect in every way."** R. N.,
Nov. 17, 1908. Lancaster, Pa.

Can ship any size at once.

Telegraph us if you need one in a hurry.

They are supplied with our special openings which are arranged for either cast iron or threaded pipe.

Received your inquiry of the 9th inst. in regard to the Generator purchased from you.

We can safely say that without your Generator it would be almost impossible to heat our houses with any degree of safety, as our expansion tank is but 18 inches above the highest pipe line, and we had **no trouble whatever** in keeping the required temperature during the recent cold spell, with thermometer **at 12 degrees below zero.**

We are glad of the opportunity to recommend your **Generator, Boiler and piping plans** to our fellow florists, knowing that when placed as directed they will give perfect satisfaction.

We did our own piping, and none of us had ever had any experience in that line before.

Hoping this will be of some benefit to you, and thanking you for past kindnesses, we remain,
NORTH FLORAL CO.,
Dec. 11, '08. Fort Dodge, Iowa.

In 1894 we bought one of your No. 12 boilers to take the place of four smaller boilers of another make. Your boiler has done the entire work to the highest satisfaction saving labor and about one-third of the fuel we used to burn before. We had that boiler up to 1906, that is 12 years, having no repairs on it whatever, except one set of flues we put in in 1900. Last fall we installed one of your No. 14 boilers having enlarged our plant. It takes care of 35,000 square feet of glass very easy. When firing we kept the ash doors open only about one inch. We think your No. 14 boiler could carry 40,000 feet of glass. DAMM BROS., Chicago, Ill.

KROESCHELL BROS. CO., 45 Erie St, Chicago

Omaha.

EFFECT OF THE BLIZZARD.

We experienced one of the most disastrous blizzards we ever had Thursday night, and this lasted for 30 hours. In the afternoon it was cloudy and warm, but turned cold and windy, and by 7 o'clock we had the most furious blizzard we ever witnessed, which did a lot of damage to the florists. At Hess & Swoboda's it almost ruined one house of American Beauty roses, 24x200 feet, one house of carnations 24x200 feet, and one house of violets 200 feet long was frozen. It was hard to keep the rest of the houses above 40°. All report lots of glass broken and ventilation blown out, etc. It is still very cold, with a sharp brisk wind. Business has been good right along, and stock is good. Roses are somewhat scarce; carnations are good and plentiful; bulbous stock is coming in more plentiful, and helps out immensely.

NOTES.

The Florists' Club held its monthly meeting recently, and was favored with the presence of A. Henderson, of Vaughan's Seed Store, and D. W. McAllister Currie, Milwaukee. The club considered a flower show next autumn, and it may materialize, provided we can raise the money.

Paul B. Floth has been very ill for the last two weeks, and is slowly recovering.

Visitors: J. M. Garland, Desplaines, Ill.; A. Ringier, Chicago; W. Hageman, New York; F. Farney, of Randall & Co., Chicago, and W. Wrigley, of Augsburger & Son. GRIPPE.

Brass Boiler Flues.

ED. AMERICAN FLORIST:—

In 1890 I bought an Acme water heater of the manufacturer. This had 12 brass flues which are leaking now and I need new ones. I have tried to find the parties who could supply them but have been unable to do so. Perhaps you can advise me. It seems the manufacturer is dead and the patent and patterns have been sold to others, but I have been unable to locate them. G. S.

I have no knowledge of the Acme boiler or the present owners of the patterns, but if the brass tubes only require renewing, it should not be difficult to obtain brass piping which could be used for the purpose and almost any good boiler maker should be able to replace the flues. L. R. T.

PLEASANT HILL, MO.—The George M. Kellogg Flower and Plant Co. is cutting a remarkably fine lot of carnations. The daily cut averages 4,000 but on a recent day 6,675 were cut.

Bench Arrangement.

ED. AMERICAN FLORIST:—

Please advise me through the columns of your paper the best arrangement of beds or benches and walks in a greenhouse 35 feet wide. Also what style of roof would you suggest for a building of that width. J. W. S.

A house of the width mentioned should have five beds, of a width of five feet and the walks should average 20 inches. The walks along the walls could be a little less and two of the others slightly more than this width. This would answer for any purpose although for growing lettuce, it would be as well to have beds on the surface, while slightly raised beds with cement sides could be used for such crops as roses, carnations and violets. L. R. T.

HOMESTEAD, PA.—Wm. D. Faulk of Pittsburg, has purchased the business of D. Geddis at 210 Eighth avenue, and will give it his personal attention. Mr. Faulk has practically spent his lifetime in the florist business, for years conducting a stand in the Allegheny market house, and at present has a father and two brothers engaged in the floral business. He has retained the service of Edward Harvey, who was associated in the business with Mr. Geddis.

Cincinnati.

TRADE POOR.

The month just past has been the worst January, from a business standpoint, in a decade, for we always look forward to this month as being a good one for our business. Of course, we hear of exceptions, some who will say that they are busy, but these are few and far between; the majority complaining, and one of our most truthful and optimistic retailers remarked the other day that were it not for a little funeral work he might as well close the doors, as there is practically nothing doing in society. The weather was very much against business, as spring-like conditions prevailed, but on January 30 a blizzard struck the town and the mercury went down to the neighborhood of the bulb and stayed there for a few days. This, together with a high wind, naturally played havoc with the coal pile. However, with all these conditions confronting us, all is good cheer, optimism and hope, and everybody is looking for things to brighten up in the near future. The supply of cut flowers is equal to the demand, there being very few orders that had to be turned down. Roses of all kinds are in good supply, and at times there is a surplus of carnations, Roman hyacinths, Paper White narcissus, callas, daffodils and lily of the valley are equal to the demand, while violets, especially the eastern doubles, are a glut and on two or three occasions the past week it would have been an easy matter to fill an order for 50,000. There is a good call for green goods of all kinds, with enough for all orders.

NOTES.

On Saturday, February 13, the regular monthly meeting of the Florists' Society will take place in the salesrooms of Weiland & Olinger, 128 East Third street. Our meetings of late have been well attended, and the officers of the society are naturally very much pleased and grateful to the members for taking the interest they do in the discussions that arise. At the next meeting the different committees appointed by the ex-committee of the society to take charge of S. A. F. matters, will be ratified by the Florists' Society, and then every member will know his job and have to get busy. After the meeting we will have lunch and refreshments.

About eighteen of the craft from this city took in the meeting and exhibition of the American Carnation Society at Indianapolis last week, and came home praising the Hoosier boys' hospitality.

S.

New Castle, Ind.

A great many of the carnation conventionites visited this city on their return journey, calling at the various establishments. Unfortunately stock was mostly off crop, but the plants were found to be in unusually good condition, promising abundant bloom later on. Heller Bros. will grow only American Beauty roses for cut flowers next season, discarding all other varieties. Carnation growing will also be discontinued altogether. This firm now has a large mail order trade in roses of all kinds.

Weiland & Olinger are cutting some unusually good Bride and Bridesmaid roses this season, and they grow a great variety of roses, carnations and miscellaneous stock for their Cincinnati wholesale house. Mr. Weiland is so well pleased with the behavior of Rhea Reid during the past season that he will give it more space next year.

Wm. Dittmann has cut some of the best American Beauty shipped from this place during the present season. The plants gave a heavy yield throughout the fall and holidays and there is every indication that they will afford an excellent cut for late winter and early spring months. The plants are in fine shape.

The Benthey-Coatsworth Co. has had much success with Killarney this season and continues to cut a large quantity of this variety in fine condition.

THE FOLEY MFG. CO.
CHICAGO.
Completely Equipped with Up-To-Date Machinery for the MAKING OF MATERIAL FOR
GREENHOUSE CONSTRUCTION
FROM A FULL SUPPLY OF THOROUGHLY SEASONED LUMBER.
Send your sketches to our draughtsmen for completion and suggestion. Permit us to figure your proposed work large or small. We Guarantee Our Prices Will Save You Money.
Foley Ventilating Apparatus is the Best.
Is simple in erecting. Is easiest of operation. It will last a life-time: Its price is the lowest. Will ventilate any size house. Prices and circulars on application.
Our 1908 Catalogue Greenhouse Material sent postpaid on request.
The FOLEY MFG. CO. Western Avenue 25th and 26th Sts. CHICAGO.

LUMBER for Greenhouse Benches, Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.
We are in special position to furnish "PECKY" CYPRESS; everything in PINE and HEMLOCK BUILDING LUMBER. WRITE FOR PRICES.
Adam Schillo Lumber Co. Cor. Weed and Hawthorn Sts., CHICAGO. Tel. Lincoln 410 and 411.

U-BAR GREENHOUSES
ARE THE IDEAL HOUSES FOR PRIVATE ESTATES, PARKS, INSTITUTIONS AND FLORISTS' SHOWROOMS.
PIERSON U-BAR COMPANY
Send for catalog. 1 MADISON AVE. NEW YORK

Use our patent Iron Bench Fittings and Roof Supports.
THE JENNINGS IMPROVED IRON GUTTER.
IMPROVED VAPORIZING PANS
For Tobacco Extracts, etc. Send for Circulars.
DILLER, CASKEY & KEEN,
S.W. Corner Sixth and Berk Streets, PHILADELPHIA.
VENTILATING APPARATUS.

Mrs. Wm. Dittmann expects to go to Germany next summer for a few months' vacation. Mr. Dittmann is in Florida at present seeking rest and recreation.

Herbert Heller is confined to his home by illness and it is feared he will have to go to Cincinnati shortly to undergo an operation.

Nashville.

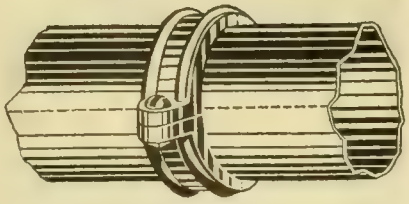
Trade has been only fair for a week or so past, but some excellent stock is coming in.

Geny Bros. are cutting in large quantities handsome Enchantress carnations, very large and of fine color and shape. They have also an abundance of violets. The inauguration and after-reception at the gubernatorial mansion of Governor Malcolm R. Patterson called for a liberal use of pot plants, southern smilax and flowers.

A full report of the joint meeting of the State Horticultural Society and the State Nurserymen's Association will be found in the nursery trade columns in this issue.

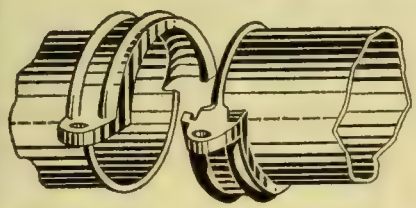
M. C. D.

Stuttle's Patent Pipe Clamp



Especially adapted for joining old boiler tubes now so generally used in hot-water heating of greenhouses. Also it is invaluable for utilizing old cast-iron pipes which otherwise would be consigned to junk pile.

Easy to put on in any position and even more easily removed.
Cheap as the cheapest joint in use and 100 per cent superior.



HENRY STUTTLE,

Inventor and Patentee.

BATAVIA, - ILL.

Glen Cove, N. Y.

The Nassau County Horticultural Society held its fourth annual dinner at the Oriental hotel, January 27. President Everett presided over a well attended dinner, about 40 members being present. Many guests also traveled from afar and were cordially welcomed by the president on behalf of the society. After an excellent dinner had been done justice to, a most enjoyable evening was spent with song, dance and story. Toastmaster Shaw called upon the president to present H. F. Meyer, winner of the largest aggregate of points for the year 1908, with a beautiful silver cup, given by Rickards Bros. of New York.

Ex-President Jaenicke and ex-Secretary Kisson were presented by the society with a pearl and diamond pin and fountain pen, respectively, as a recognition of services faithfully performed. An interesting talk on "Society Organization" was given by M. Maynard. The Rickards brothers, C. Russel and W. Armstrong added much to the enjoyment of the evening by singing many popular songs. The Scottish bloom was stirred by R. Angus' beautiful rendering of old Scottish airs on the violin. A. Wilson, of Summit, N. J., also did his part towards the entertainment of an appreciative audience, and one of the most successful dinners ever held by the society was brought to a close by singing Auld Lang Syne.

WM. H. MACKENZIE, Sec'y.

Newark, N. J.

BUSINESS POOR.

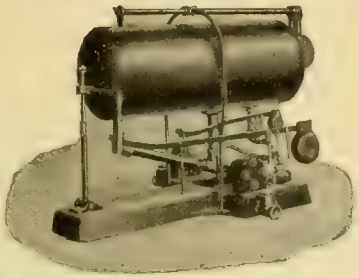
The month of January is not very brisk as a rule, but we cannot remember the month being so poor in a good many years. Of course there is a certain number of weddings, entertainments and balls, but these were few. To make matters worse, the weather was very bad. There is very little stock coming into the market, and if business should come back to its normal conditions we might predict very good prices. Carnations and roses are coming in fair in supply, prices ranging from three to six cents. Roses are higher, four to eight cents in a good many cases. There are some tulips coming in with little demand. Paper White narcissus is not plentiful, and moves well at 20 and 25 cents per dozen. Richmond roses are scarce, bringing 12 to 15 cents.

NOTES.

E. W. Fengar, proprietor of the Linden Avenue greenhouses, has just returned from a trip to Chicago, where he went to look over some of the large greenhouse plants. He speaks very highly of both the construction of houses out west and the fine systems they have in conducting a large establishment. Mr. Fengar has, without a doubt, one of the finest carnation ranges in this part of the country. He intends to double its capacity with the coming year.

The booming of South Broad street seems to help our down-town retailers. It presented a very beautiful sight last Saturday, all lit up; we understand it will cost the merchants about $500,000 a year for this display. Wolfingers looked extra fine, decorated with choice cut flowers and bunting.

"DETROIT" RETURN TRAPS



"Detroit" Return Trap. (Patented)

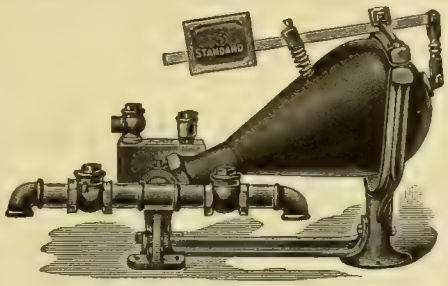
Will keep any Steam heating system free from water, making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass.
IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. DETROIT, MICH.



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

E. HIPPARD, Youngstown, O.

PATENT APPLIED FOR.

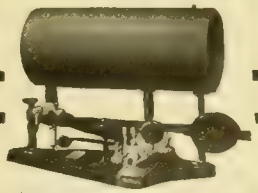
Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM. MOLL,
1 64 Columbus Rd., CLEVELAND, O

30 DAYS FREE TRIAL
will convince you that the
Morehead Return Steam Trap
is just what you need.



Working automatically it insures free circulation and full radiating capacity. Handles water at any temperature. Write for our proposition.

MOREHEAD MFG. CO.,
1047 Grand River Ave Detroit, Mich.

Louisiana Red Cypress

As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

Society for Horticultural Science.

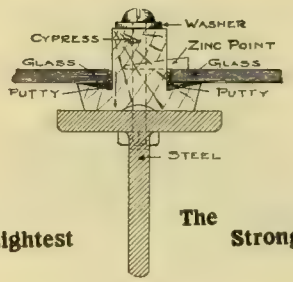
At its business meeting on December 31, 1908, the above society voted to sell copies of the reports already published to new members and to educational institutions for $1 per copy, and $2 per copy to non-members of the society. The question of affiliation with the National Association for the Advancement of Agricultural Science was discussed, and although the sentiment was in favor of such affiliation, the matter was referred to the executive committee for consideration, and to be reported on at the next meeting. The committee appointed at the Jamestown meeting to interview the secretary of agriculture with respect to having the reports of the society printed as a bulletin of the Department of Agriculture, reported that the matter had been discussed with Dr. B. T. Galloway, who represented the secretary of agriculture, and it was determined that, with certain changes in the constitution of the society, there would undoubtedly be no opposition at all to the secretary of agriculture consenting to have the reports published by the department. The proposed changes in the constitution are as follows:

That the association shall be known as the American Association of Official Horticulturists, the object of which is to promote the science of horticulture, and that any person connected with a state or federal experiment station, or with the Department of Agriculture, or its territorial stations, or with any other institution in the United States or Canada, who is engaged in the teaching of horticulture, or in experiments bearing upon it, may become a member of the association and shall be entitled to vote on the conditions which are embodied in the present constitution. Furthermore, that all horticulturists in the United States, and in Canada, or in any other country, engaged in the teaching or investigation of horticulture, may become associate members of the association under the same conditions that govern the admission of members, and shall have all the privileges of members except the right to vote and hold office. These amendments to the constitution were discussed and laid upon the table, because, according to the by-laws, they could not be acted upon until the next regular business meeting. The officers and members of the committees for 1908 were re-elected for 1909.

Worcester, Mass.

Business has held up wonderfully since the holidays, and while there is no great scarcity of stock, everything is cleaned up daily. Bulbous stock is coming in now, White tulips still have a forced appearance. Fine Golden Spur and Double Von Sion narcissi are in. Flowering plants are selling well, azaleas, rhododendrons, cyclamens and primulas being very popular.

The Payne Steel "T" Bar Greenhouses



The Lightest The Strongest

Half full Size.

HOUSES of this type constructed with both curved glass eaves and straight glass eaves. Least amount of shadow. Least amount of wood. No drip. Greatest durability.

JOHN A. PAYNE,
Greenhouse Designer and Builder,
260-274 Culver Avenue,
JERSEY CITY, N. J.

NOTES.

The Worcester County Horticultural Society held a well attended meeting in Horticultural Hall January 28 to listen to a paper on "The Value of Trees." The paper was voted one of the best of the series given during the winter. At the previous meeting Wilfred Wheeler, of Concord, read a paper on "Small Fruit Growing." At the next meeting Harold Parker, of Lancaster, will read a paper on "Development of Massachusetts Roads," and an invitation is given to all interested to attend this lecture. Mr. Parker is chairman of the state highway commission.

Winthrop Lewis, who started a flower store on a very lavish scale a little over a year ago, has had to make an assignment for the benefit of his creditors. An attachment has also been placed on his property in Marlboro.

H. F. A. Lange reports that Mrs. Jardine is one of the most popular roses he ever handled, its delicious fragrance and soft pink color making it very salable.

H. F. Littlefield has had some very attractive window displays of Killarney roses and pink baskets.

Frank Sokol, who recently bought the Book greenhouses, reports a good business.

Talks on Cypress

No 1.

Did you ever stop to consider that lumber is made in several grades and that each grade is for a certain purpose.

Cypress lumber is used for many things besides greenhouse material and for all of these purposes the various grades are made.

For railroad ties, trestles, bridges, factories, dwellings, trenches, barrels, tanks, etc. cypress is used but in various grades.

The highest grade of cypress is called "tank." This is used for making greenhouse material. The next grade is called "1st and 2nd" and is used for sash, doors and interior work for dwellings.

Planing mills as a rule buy the "1st and 2nd" grade of cypress and when they make greenhouse material this is the kind of lumber you can expect to get.

A greenhouse that is not built of "tank" grade cypress will never last, as the lumber will have sap on it and sap always rots quickly.

We use only "tank" grade cypress in making our material and every piece of lumber is inspected carefully before it is cut up.

Next week we will have some more to say about cypress. Look for our advertisement.

John C. Moninger Co.
113 E. Blackhawk St.,
CHICAGO.

Miss Anna Berglund, formerly with W. T. Lewis, is now with C. D. Mackie.

R.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, FEBRUARY 13, 1909.** **No. 1080**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August, 1909

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N.Y., March 17, 1909. AUG. POEHLMANN, Chicago, president; BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., president; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.

ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect.

A Garland of Roses.

Thou art a garland of roses, of the rich red roses of love,
Which we, her children, are twining for our beautiful Mother above.
Each tiny head is a rosebud, each large one a rose full blown,
That lifts its pure heart to heaven with petitions from our own.

As we hold each tiny rosebud, and a sweet rose here and there,
We can almost breathe the fragrance that is wafted through the air.
And when the garland is finished and ascends to the realms above,
We know 'tis clasped on our Mother's brow with our kiss of the Cross of Love.
—Atlantic Journal.

SUGGESTIONS FOR PLANT GROWERS.

Pennisetum Longistylum.

This plant is in great favor for use in conjunction with cannas and large foliage plants in bold bedding designs to which it gives a fine finish. Sow seeds now and the seedlings will be ready for pricking out two inches apart in flats in about a month or six weeks. Give them plenty of room from the first and then, about a month before they are needed, one, two or three may be potted in 2-inch or 3-inch pots and will make nice little hard stock for bedding out. The crimson variety is a very beautiful one, not so much for use in canna beds as for planting in conjunction with green and white variegated subjects or with green foliage plants alone. Seed is offered and, if procured from a good source comes true.

Pelargoniums.

It is quite time to get these plants into shape and start them on their growing season. Any cuttings still in the bench must be potted at once and those potted some time ago must be given a new stand and plenty of room in a light, airy house. Old plants that were cut back and repotted as advised will now be growing freely from the new eyes that started and these shoots may probably have to be thinned a little. Whatever potting takes place see that the soil is very firmly placed. Pelargoniums will never make a satisfactory growth or flower well in loose soil though at first the growth may appear to be thriving, green and more rapid than that of the plants more firmly potted. But when it comes to flowering and taking up feed then the solid growth produced by firm potting has the other beaten all ways.

Fuchsias.

Cool treatment throughout is best for fuchsias. Plants rushed along in heat are never as strong or free in flowering as those given a regularly cool temperature from the first. Even in the propagating bed heat is undesirable and unnecessary, for in an ordinary greenhouse temperature of 50°-55° at night with the usual rise by day from sun heat, the cuttings will root freely and do well. Where the pyramidal form is desired, and this is the most natural method of growing fuchsias, no pinching will be necessary and the greatest care will have to be given not to let the little plants get potbound. If they do, they begin to flower in a small state and do not make a clean or vigorous growth. If the bush form is needed they may be pinched as soon as well rooted and again each time the plants are repotted. Should flowers appear in the points of the shoots at any other time pinch them out and bend all the energies of the plants toward making nice specimens by a few weeks before they are wanted in flower.

Gloxinias.

Sown now and grown along with care gloxinias may be reared into nice plants in 4½-inch pots by August, when they will make a very fine display. The erect flowering section of varieties is more showy and better in every way than the drooping or horizontal flowered forms. If the seed is obtained from a reliable house splendid varieties of the richest and most varied tints may be raised and they come fairly true to the description sent out by the raisers. The seed of gloxinia is very small and needs care to grow—not that it is difficult of germination as no seed grows more freely when fresh—but its small size makes it easy to wash away or to wash all on one side of the pans used when raising it, leading either to no plants or a crowded condition in certain parts of the pans. Prepare these carefully with fair drainage and fine soil that has been sterilized before use by placing over the boiler or otherwise exposed to considerable heat. Light, sandy loam and fine leaf mould with a plentiful sprinkling of sand will be suitable. Sow the seed thinly and carefully by hand, taking the least pinch between a dry thumb and forefinger for each pan and spreading it regularly. Never water from the surface but hold each pan in a tub or tank until the water just reaches the surface. Let them drain and dust a little dry sandy soil over the seeds; cover with paper and place in a temperature of 65°-70°. Look over them daily and water if at all dry in the same manner. If the atmosphere in the house is kept moist it will usually be unnecessary to water more than once or twice before the seedlings are up

when the paper must be removed and the young plants carefully tended. Their after treatment will be referred to in future notes.

Begonia Erfordii.

So constant flowering a plant as Begonia Erfordii should be largely grown by all plantsmen. Unlike the tuberous begonias B. Erfordii makes a very creditable showing in the flower beds during the dry heat of summer if it is well looked after for water, while it is practically never out of flower, making it difficult to get wood of a suitable character for propagating. Where the wood is at all hard it will be policy to cut over a few plants and depend on the new shoots that spring up for propagating. These may be inserted in the bench as soon as possible and all flowers kept pinched out of them regularly as they form. In about a month the plants will be sufficiently rooted to pot and they may be grown on in a gentle warmth right along. Nice little stock will be produced by Easter if the flowers are allowed to form about 30 days before needed and this will be very useful for filling around the base of Easter baskets or for selling in any of the small ornamental pots and vases that are so popular around that season. The fact that is not as generally grown as some other plants will lead to a brisk sale to people who are loking for something different to the usual stock sold and the plants are so easily and cheaply grown that they will show a good profit for handling.

Cinerarias.

No matter what the size of the plants the principal points to be observed in the culture of cinerarias are to keep the growth constantly moving and to keep them clean. To do this they must never be allowed to get potbound in any stage, this causing a decided check to growth. On the other hand large shifts are not desirable. At each shift give sufficient room to last the roots a few weeks, and the frequent provision of new soil will maintain the active growth that is so desirable. Heat is the worst thing possible for cinerarias. This, especially if coupled with a dry atmosphere, will cause the plants to be overrun with insects, ruining all chances of vigorous growth. If they are to grow on benches these must be covered with ashes, and a layer of tobacco stems, renewed as the nature from these is washed out by damping, will help to keep green fly in check. At all times a good circulation of air must be kept up about the plants, a stuffy atmosphere being fatal to good results. The foliage on well grown plants is full of moisture and very brittle, consequently, when moving them around or in potting, great care should be taken not to break them. Here is where the careful worker gets a great advantage over the man who only wishes to get a large number of plants through his hands. Anyone may pot a bedding geranium, but the man who wishes to get a good finish on flowering plants and have specimens fit for a high class trade must not only know how, but take the proper time to do the work. At present there will probably be plants in 2½ or 3-inch pots ready for a shift into the flowering size, and these may have attention at any time.

SOMERSET, MASS.—Traynor Bros. have built a greenhouse 12x120 feet at their home.

THE RETAIL TRADE

Dracena in Japanese Basket.

The simpler forms of decoration are often the best and the dracena in the Japanese basket herewith illustrated is both simple and exceedingly effective. This is the work of the Fleischman Floral Co., Chicago, and consists of a willow basket in dark, bronzy red with handle of the same color, filled with a fine plant of Dracæna terminalis, the base having a few sprays of Asparagus plumosus and the handle tied with a bow of green ribbon. Yet, simple as it is, it is different and has been found a good seller at the store in question.

Sale of Flowers on Sunday.

A bill has been introduced at the state house, on petition of the firm of Morse & Beals, Lowell, Mass., by which the sale and delivery of flowers on the Lord's Day is authorized. This is one result of the recent order from the police stopping Lowell florists from doing any business on Sunday. There are two sections, as follows:

Senate Number 149—On petition of Morse & Beals, that the sale and delivery of fruit and flowers on the Lord's Day may be authorized. Hearing scheduled to be held before the committee on legal affairs.

Section 1—It shall be lawful for retail dealers in fruit and flowers to sell and deliver the same on the Lord's Day, subject to such restrictions as may be imposed by the licensing board in the city or town where the sale or delivery is made.

Section 3—All acts and parts of acts inconsistent herewith are hereby repealed.—Courier Citizen.

Carnation Day.

Seven years ago the people of this country, as a graceful tribute to the memory of a well-loved and martyred president, set themselves to honor the memory of Wm. McKinley by observing his birthday each year. To do this it was suggested and the suggestion was immediately acted upon, that individually and collectively we wear his favorite flower, a carnation on January 29. The year following thousands, yes millions, of men, women and children carried out the pretty idea. But our memory as a nation is sometimes short-lived. This year the reports from all over the country show that with few exceptions Carnation day went by practically unobserved. There were here and there to be sure carnations upon the lapels of the men and dresses of women and children, but the number was so small that it hardly made any impression upon others than the wearers of the flowers. Wherein lies the trouble? The

A LONDON FLOWER SHOP.
Retail Establishment of Wills & Segar.

writer broached the subject to one of our most prominent retail florists the other day and asked him to give his opinion as to the cause, and he placed the blame of the falling off in demand on the grower, stating that as soon as his product is in demand, up goes the price and the public in general would not stand for it. For instance, a week previous to Carnation day, street fakers were selling their blooms at 25 cents per dozen, and all of a sudden there is a let up in the cut, up goes the price and the retailer's customers come to the conclusion that they are being gouged.

But there are other causes which can be laid at the door of the retailer. For instance, does he advertise the fact that he will have carnations at the right price for McKinley day? Does he encourage his customers to wear a carnation by presenting him with one and remind him of the fact that it is Carnation day? Would it not be a good idea for all local florists' societies to take a little money out of their treasury and place a little "ad" or notice in the daily press in the shape of reading matter reminding the public of McKinley's birthday and advocate the wearing of the carnation? Little things like these will not cost a fortune, but undoubtedly will prove very beneficial in a financial way to all concerned. S.

Cincinnati.

February Flowers in the New York Stores.

Though we have heard considerable complaint of late about the scarcity of flowers, a stranger making a tour of the leading retail stores would, quite naturally, wonder what it was all about. Excepting the Christmas and Easter seasons, when special efforts are put forth to make attractive displays, we do not recall a time when the retailers made their stores and windows more pleasing to the eye than at present. In speaking recently of the temporary shortage in good roses, the buyer for a leading retail store remarked: "It is fortunate that orchids are plentiful." That remark would be likely to call up a train of reflections in the minds of men who have been in the business for 25 years. We will be content to emphasize the fact that being plentiful the leading decorators have practically carte blanche to use them, and the effects produced, whether in wedding, dinner or window work, must always be delightful.

Though the supply of special or long stemmed American Beauty roses has been very light of late, the territory from which this market draws its supplies, is so wide, that they are generally to be had from some quarter. While we have sometimes felt constrained to criticise the quality of many Richmond roses offered here, at the present time there is a limited supply to be seen that are exceptional in their excellence. Notwithstanding a shortage in all the leading retail stores a good variety of pink, white and yellow roses may be seen. If there is but light demand for yellow roses, it is enough to state that they can be had if wanted. Killarney is leading all others in popularity, though there are many in the business who will always cherish fond recollections of Bride and Bridesmaid. With the increasing popularity of Killarney and the advent of White Killarney, it seems inevitable that the passing of the two old favorites is at hand.

In writing of the carnations seen in the retail stores of this city, it would be unjust to ignore the Ward productions, with particular reference to Alma Ward and Mrs. C. W. Ward. Alma Ward is a very large white flower with just a touch of pink in part of the blooms. Mrs. C. W. Ward, also a large flower, is bright pink. Both are popular and good sellers. It seems, from every viewpoint, unfortunate that the stock of these carnations has never been disseminated. There is a continued demand for Enchantress and its sports; Winsor, Beacon and Victory, with White Perfection, Georgia, Boston Market and other older varieties still enjoying a measure of popularity.

It is a safe conclusion that whether violet prices rise or fall, we will always have violets and that they will continue to be a factor in the trade. Though there is a constant street trade in violets which tends to reduce their status, no store can be without them. Recently we noticed in a leading store, a casket cover being executed in violets and thousands of them are now used for a like purpose. Though Rhinebeck has the monopoly of double violets, good singles are grown in other parts of the state, and many of these have of late been noticeable. White violets may also be seen, but the demand is not great. Trumpet Major, Golden Spur, Poeticus, the various forms of narcissus, have been and now are factors in retail trade. The demand for yellow narcissus does not seem to be as heavy as in some past years but a large amount of it is sold. It is also used with good effect in glasses, in window decorations. In one leading store we have noted very pretty effects produced by covering boxes of the flowering bulbs of yellow narcissus with crepe paper, and attaching a handle in imitation of a basket, pussy willows and ties of yellow ribbon being used as decorations. The upward tendency in the price of cut flowers seems to have turned the thoughts of the decorators to pot stock, as good window effects with pans of hyacinths, tulips and other stocks are now frequently noted. Neither can the displays of flowering shrubbery be overlooked. Flowering crab apple, quince, forsythia, in fact, about everything that can with advantage be forced is found in the show windows and it is doubtful if as good displays, at small cost, can be made with any other class of stock.

Pots of both white and purple lilac are displayed at times in the same manner, but the cut product of these being now an important factor, the use for display purposes is not so general. Azaleas, rhododendrons and primroses are now seen in quantities and are being much utilized for show purposes. Returning to the cut stocks, very fine and long stemmed sweet peas may now be seen, and they are flowers that will always enjoy a good measure of popularity.

JAPANESE BASKET BY FLEISCHMAN CO., CHICAGO.

Containing Dracæna Terminalis with Sprays of Asparagus Plumosus..

The sweet peas, narcissi, tulips and freesias, even if they do not rise to the dignity of leading stocks, must always be taken into account and their importance is never better understood than at a time when the market takes an upward turn. Freesias are in very fair supply at present and there is great improvement over former years in the quality of this stock.

The Floral Ball.

An artistic floral fad which is rapidly being adopted throughout the country, made its debut simultaneously with Miss Ethel Roosevelt at the White House ball. It is the hanging ball of flowers suspended by ribbons from the arm.

All the debutantes at the function carried balls of delicate pink carnations and feathery ferns hanging from yard lengths of moss green ribbon looped over the arm. Both artistic merit and the distinguished nature of its introduction has brought the floral ball, also called the moss bag, into immediate popularity, says a Philadelphia paper. The girlish simplicity of the new mode will insure its favor among the younger set. Violets and roses are especially effective made up in the new manner.

THE CARNATION.

CARNATION BRITTANNIA has proved an absolute failure in this country thus far.

AFTERGLOW, according to some very competent growers, does not produce enough bloom to pay.

"WHITE PERFECTION excels White Enchantress in blooming by 25 per cent and is never off crop," says a good grower.

THE old Mrs. T. W. Lawson, it is said, is still without a peer in its color when its long distance shipping qualities are considered.

CARNATION May Day takes the fancy of many growers on account of its beautiful coloring, which is brighter than the Enchantress shade.

Resolutions on the Death of L. E. Marquisee.

Whereas, We, members of the American Carnation Society in annual convention assembled, deeply mourn the loss of our esteemed fellow-member and beloved friend, the late L. E. Marquisee, whose constant aim in life was a higher professional standard for himself as well as his fellow craftsmen, with ever sympathetic regard for the infirmities and frailties of mankind. Brilliant beyond the common lot, a close student of art and letters, his wide range of knowledge was ever at the service of a large circle of friends in the advancement of floriculture. He loved plants, nature in all her infinite variety, but with a superlative knowledge of all the flowers, he reserved for the carnation, the "flower divine," his fondest affection. Therefore be it

Resolved, That we mourn the loss of one who was sincere beyond measure, one to whom life was a dower to be spent with untiring effort for the good of all. We mourn his loss and be it further

Resolved, That we extend to his family and friends our heartfelt sympathy in their great bereavement, and further,

Resolved, That these resolutions be spread on the records of the society and copies sent to each member of the family.

F. R. PIERSON,
J. C. VAUGHAN,
AUG. POEHLMANN,
Committee.

Indianapolis, Ind., January 28, 1909.

F. R. PIERSON CO.'S PURE WHITE SEEDLING CARNATION NO. 30.
Awarded American Carnation Society's Certificate of Merit at Indianapolis.

mpressions of the Carnation Show.

The first impression made in attending the exhibition of the American Carnation Society at Indianapolis, either as an exhibitor or merely as a visitor, was the admirable location selected and the favorable facilities offered by the hall in which the exhibition was held. No better facilities could be designed than those afforded by the German house; they were ideal in every respect. The location was near enough to the hotels and the car lines to be just right.

On entering the building a large, easy flight of stairs led to the main exhibition room, which was really a small theater, with windows all around, so that every carnation could show its color with no complaint being heard regarding lack of light. This is a most important feature. For those who attend to get knowledge of the new varieties it is absolutely necessary to see the colors by good daylight. Where artificial light is used the apparent shades are apt to be deceiving.

The show of flowers certainly looked as though it could never be improved upon, and probably in future years the advance in the average quality of exhibits will not be as great as in the past; still I have no doubt but that there will be some improvement in each succeeding exhibition.

One of the main lessons seemed to be that the larger growers are confining their efforts to fewer varieties, getting down to those sorts that are acknowledged the best in each color. For instance, White Enchantress, White Perfection and Lady Bountiful were seen to be the mainstay in the whites. So in all the colors, with the exception of the seedlings, the exhibits were largely confined to a few standard varieties. In former years exhibitors showed from a dozen to 20 varieties, but this year the largest exhibitors were content with showing half that number.

Another thing that impressed a visitor was that there was not a single poor vase in the entire show. It was the largest lot of really high grade flowers I have ever seen together at one time, and certainly justifies an annual exhibition being devoted to this one grand flower. The exhibit of seedlings was probably the largest that has ever been held. There were a few very promising varieties shown, but the vast majority did not seem to be any inprovement on existing sorts, indeed many were not their equals.

The taste used in arranging the display of varieties was a noteworthy feature of the show, and that the exhibition was appreciated by the general public was shown by the vast throng of people constantly in attendance on both days. But the one feature of the exhibition which every visitor felt on arrival was the grand hospitality extended by our Indiana brethren. The brand of poetry handed out by the Hoosiers is certainly good, but the brand of hospitality is even better. C. L. WASHBURN.

NYACK, N. Y.—Chas. Schmidt has opened a new store at his old stand in the Columbus Hotel building.

CHICAGO.—The city council has passed an ordinance prohibiting second-hand dealers from purchasing funeral wreaths and moss from the graves of those who have met death by contagious diseases. This was done in ignorance of the fact that a similar law is already in existence. "The dealers," said Alderman McKenna, "purchase these wreaths from cemetery attendants and sell them again to the poor. They are taken into the homes of other families to serve for a second funeral and who can foresee the results?"

The Recent Carnation Convention.

A paper read by Albert M. Herr, president-elect of the American Carnation Society, before the Florists' Club of Philadelphia, February 2.

With an ideal hall, ideal weather and the assistance of our loyal growers, Indianapolis had the exhibition par excellence of the American Carnation Society since its origination. In 1894, in a hall corrider of the Denison hotel, we had an exhibition in which the variety The Stuart exhibited by Fred Dorner & Sons, won the gold medal offered by the Chester County Carnation Society. Certificates were awarded at that exhibition to varieties Uncle John, Helen Keller, Jubilee and Edna Craig. There were all told about 40 vases of flowers at Indianapolis then.

In 1902 another exhibition was held at Indianapolis, at which there were shown some 200 vases, some of which were magnificent flowers judged even by today's standards. At this exhibition, by the united effort of Messrs. Bertermann, Rieman and Wiegand there was a fine display of plants and flowers so arranged that they made a valuable artistic adjunct of the show.

Getting back to 1909 we find a display of 4,800 blooms in class A; 4,500 in class B; 1,200 entered for the society's medals; 700 blooms for the S. A. F. medals and at least 5,000 more in the miscellaneous classes, a display well illustrating the growth of this society. We also found at this exhibition the same eye for effect, exercised at our exhibit of 1902, and the same ratio of improvement was noticed. A more artistic show we never had, in fact, looked at from every point of view, a more successful show has never been held by this society.

Owing to the ideal hall and the ideal weather the flowers were as good the evening of the second day as they usually are the evening of the first day. The show was a success from a publicity point of view as the admission, by card, resulted in the turning in of over 2,500 cards the first evening, the total card attendance reaching close to the 20,000 mark. Add to this those who entered without cards and you have at least 25,000 people viewing almost that number of well grown carnations, many of them perhaps realizing for the first time the beauty and possibilities of the flower. Some of our members are parsimonious enough to think that a small fee should be charged for admittance, a policy which, if followed up, would no doubt have meant in this case a reduction of two-thirds in the number attending the show.

To attempt a description of varieties or give an estimate of their value would be more than I care to undertake, but it may be interesting to know that our own E. A. Stroud won out in the 100 white class with Lady Bountiful and the same vase won the fourth prize in the sweepstake judging of the whole class. White Enchantress coming second with White Perfection left out of the race, practically an opposite result from that at the great Chicago show earlier in the season.

Dorner's Pink Delight won out in its class with some stiff competition. In the light pink class Dorner's Winona came first with Sangamo a close second. We all know Winona to be good; Sangamo we will watch with considerable interest as it looks like a good thing. In the dark pinks, Afterglow won both first and second, and on the benches at Richmond it would have won the gold, silver and bronze medals and anything else lying around to be won. In the scarlets O. P. Bassett came to the front in spite of its lack of fragrance. In the maroon, No. 60 by Pierson and Mrs. Walter Coles were the deserving winners.

In yellows J. Whitcomb Riley was the only one in sight but it was well worth seeing, a pure yellow of commercial size and commercial quality. A peculiarity of this variety is that it is yellow under artificial as well as under sunlight. Its dissemination is in some doubt as the originators (Bertermann Bros.) do not care to disseminate it and it has created such a furore in English circles, where a good yellow is wanted, that we may lose it. Bay State, an improved striped variety, was quite an attraction to most of the growers.

Our Dorothy Gordon was admired by everyone and I am sure that if Mr. Heacock could have heard some of the comparisons made between Dorothy Gordon and a magnificent vase of Rose Pink Enchantress along side it he would seriously consider divorcing his rose and palm business and clinging to Dorothy Gordon alone.

In the purely seedling class there were so many good things that I would not like to go on record as exalting any special ones, but Dailledouze's white and The Shasta of Baur & Smith and a red or scarlet of Dorner's were in the center of the stage and created quite a furore. It is to be hoped that many of these seedlings exhibited prove good commercial varieties as they certainly were grand show varieties.

Aside from the exhibition, much is to be learned at these meeting in the side remarks of various growers. A quiet tip on a novelty that is being introduced this year and of which I have 1,000 plants in pots will make me plant them in a part of a house where I can tear them out and use the space for young stock in the spring if they do not prove profitable. I also had several good tips on varieties coming out next year, some to buy and others to let alone. I am not going to give any of these tips away; if you want to get similar information go to our meetings. Our next one is in Pittsburg, and Philadelphia should have an attendance sufficiently large to fill a special car.

F. R. PIERSON CO.'S DARK PINK SPORT OF WINSOR.

Lawson Shade But Brighter and More Even—Certificate of Merit at Indianapolis.

BOSTON, MASS.—Martin Tuohy was presented with a handsome traveling bag by his friends January 30.

BLOOMFIELD, N. J.—"Volunteer firemen, working on two greenhouses of mine that were worth $2,000, caused the destruction of three others, worth $3,000, that were not on fire," complained John Brozat, to Mayor Sutphen February 3. Mr. Brozat said he asked the firemen to keep away from the uninjured greenhouses. They refused. His boilers were cooled and $3,000 worth of plants froze. J. Hauk, a neighbor, said the enthusiastic volunteers also froze a lot of his flowers by turning streams upon his greenhouses.

CHRYSANTHEMUMS

Notes on Varieties.

The varieties made prominent in our comments on the Chrysanthemum Review of the issue of January 30 may not be in accord with the ideas of many prominent growers, and, if we were making a specialty of commercial varieties for bloom there are some changes which we believe would be advantageous. However, the varieties mentioned must be accepted as good for the purpose, as it is a resumé from 26 cities giving the prominent sorts which appeared on the market the past season.

From present indications it is evident there will be none too much stock to meet the demand, for such kinds as Golden Glow, Pacific Supreme, White Cloud, Golden Eagle, Lynnwood Hall, Virginia Poehlmann, Crocus, President Roosevelt, Ongawa, and several of the older kinds. Who has said a good word for John Lemon? It has not received as strong endorsement as it deserves. For those using bi-colored flowers (crimson with old gold reverse) it is unsurpassed for commercial use, producing double flowers of beautiful color from the late buds. It is rather dwarf and requires planting fairly early to secure a good length of stem.

In checking up the awards at the National Flower Show we find Col. D. Appleton, which is generally conceded as one of the best commercial yellows, is also one of the best for exhibition; at least it was awarded more prizes than any other variety, namely, first in 50 vase and sweepstakes in these classes; also first in 25, 12 and 6 dark yellow. This is a wonderful showing. Some comnlain that its stem is weak under the bloom. We do not understand the cause of this defect unless the stock is planted late and crowded, so as to prevent a free circulation of air; it has always been very satisfactory with us.

The English critics have taken the writer to task for applying the name of Golden Glow to the early yellow sent out last year. It is true the rudbeckia commonly known by this name, is not to be compared, either in size or color, with the chrysanthemum. But it must be remembered the long list of names appropriated to this class of plants is making it more difficult each year to select those which are distinct. The term Golden Glow is also applied to brilliant lightings of the sky and various things producing a like effect. It seems to us the slight discrepancy in shade of color is far preferable to using an old name and thus causing confusion. In looking over some of the English catalogues we find such names as Romance, Mignon, Snowstorm, Simplicity, Diana, Snowball, and we presume there are others, which have been previously used.

Probably some of the original varieties are now extinct, but the old Diana (white) is still grown for sprays, whereas the new Diana is an early bronzy red. We now have in stock two varieties known as Mignon—one an early yellow pompon and the recent arrival (French origin), rosy mauve, flowering in September. In mentioning duplication of names it may be well to state there are two named Buttercup, one an incurved, the other a small flowered single; both, of course, are yellow.

ELMER D. SMITH.

Propagation.

This subject has been written upon so many times, that it is impossible to advance new ideas. It may, however, be of interest to beginners. It is first necessary to provide a bench to receive the sand into which the cuttings are to be inserted. In selecting a bench for this purpose it should be one provided with heating pipes underneath so the sand can be kept at about 65°, and should be located in a house where abundance of air can be given, so that the overhead temperature will be about 10° less than that of the sand. We prefer benches constructed of concrete for when so made there is less danger of fungus attacking the cuttings as this material is always sweet and clean. Board benches may be used, but all old decayed parts should be replaced with new as the decayed lumber is infested with fungus and is often the cause of failure.

Tamping Tool or Propagating Bench.

W. H. Siebrecht, Jr...New York.

Secretary New York and New Jersey Plant Growers' Association. See Page 80.

The length and breadth of the bench must be determined by the amount of propagating to be done and the width of the benchs at hand. If the bench is over three feet wide (an easy reaching distance) it is best to place a strip on edge through the middle and thus divide into two long narrow beds; when so arranged it will facilitate in putting in and taking out the cuttings. Before filling, these beds should have a coating of whitewash which will help to keep them sweet. Four inches of clean sand can now be put in, then firmed down, given a generous watering and it is ready for the cuttings. The accompanying illustration shows a handy tool for firming the sand. The handle is easily made with saw and knife from a piece of 2x4 and is then screwed to a piece of ⅞ board cut 6x16 inches. Then take a piece of 2-inch plank the same size and nail the first section securely thereto.

Provision should now be made to protect the cuttings from direct rays of the sun. Being devoid of roots the object is to maintain conditions, which will keep them normal until the roots are emitted. We prefer to shade the entire house, by tacking some semi-opaque material to the inside of the roof. Formerly we used burlap, but are now substituting a rather heavy grade of wrapping paper after it has received an application of linseed oil. At the advent of brighter days and higher outside temperature this shading is supplemented with a coat of whitewash on the outside of the glass to further obscure the sunlight. If these methods seem impossible newspapers may be placed over the cuttings with fair results. It must also be remembered these rootless cuttings are sustained through absorption by what is known as capilliary action which is lifting moisture through the hair like tubes, and this prevents them from flagging. From this it will be seen that a continuous supply of water is of vital importance. Never allow them to suffer for the want of it.

ELMER D. SMITH.

The Plant Growers of Springfield, O.

The term plant growers is one that can well be applied to the majority of the florists of Springfield, O. Few persons of the trade realize the enormous amount of stock the plant growers of this city are growing and shipping annually with very little said about it, neither do we hear much of the other plant growers over the country.

The various trade papers have their departments for other specialties, but little do we hear from the plant growers. Perhaps this is due to the lack of organization more than anything else. Of course, we have the Society of American Florists, which is a grand organization, composed of the best of men in all branches of the trade, but it can hardly be expected to gain a desired result for any one special branch of the trade from an organization whose members represent so many different lines and would probably be uninterested to a degree more or less in any one special line.

Are not such organizations as The American Carnation Society, the American Rose Society, the Chrysanthemum Society of America, the American Seed Trade Association, the American Association of Nurserymen, etc., doing a grand work in various ways? Are not the higher grade stock of today and trade conditions made better by the efforts of these various societies in trying to improve both the stock and other matters pertaining to the trade in the respective lines they represent?

In the issue of the AMERICAN FLORIST of February 6 there is an article from Vaughan's Seed Store on "Wholesale Prices to Amateurs." This is one of the many conditions that can be remedied by a society of plant growers. I also noticed, in the same issue, in the address of Robert Craig, Sr., at the annual banquet of the New York and New Jersey Plant Growers' Association, he said he believed any body of organized men could

A WELL FLOWERED HYDRANGEA.

do much more to forward any particular competition than an individual; he said that man's success depends much on himself, but after he has done all in his power as an individual much more can be accomplished by an organization. If much more can be accomplished by an organization of these two states certainly much more can be accomplished by an organization of the plant growers of all the states.

C. G.

Hydrangeas.

The plants of Hydrangea Otaksa and other nearly related varieties of the old H. hortensis that are so freely imported to this country render the production of such fine specimens as those depicted in the illustrations herewith quite easy and, in consequence, many growers do not take the trouble and time necessary to propagate and grow on plants but depend on the imported ones. Where the conveniences are not of the best this is decidedly the most profitable and best thing to do as they are soon grown and out of the way. The plants are usually bedded out in protectors when they arrive and may be potted and started at any time, some growers making it a point to begin at the new year. Care is necessary in handling them not to break off the buds that are formed on the ends of the shoots as these contain the flowers in embryo and their loss means the loss of the flower trusses later.

Any good soil will do for the plants as it is easy to make up any deficiencies later by feeding with liquid manure, but it must be in good heart and firmly placed. After potting give one thorough soaking of water, enough to moisten every particle of soil, first standing them on a level floor, and when they have drained a little take them to a cool house. Here they should remain as long as possible in order to give the roots a chance to get hold of the new soil, but the time they can remain depends upon when they are needed. If they are wanted for Easter, which this year falls upon April 11, then they will have to go right into heat at once, moderate heat it is true at first, but still enough to start them growing or there will be no chance of having them on time. Memorial day plants may be kept in the cool house another couple of weeks and started, say the end of February. From 45° to 50° is warm enough at night for the first two weeks and after the growth gets well away then more heat can be applied as it is seen whether the plants are likely to be on time or not. It is much easier at the finish to keep the plants in good condition by taking them to a cooler and drier house than it is to force them into flower at the finish, very high temperatures leading to poor color in the flowers, so start in time.

As the growth develops it will be easy to see how the plants are coming out as to flower and shape, and a little manipulation of the growths early in the season is well repaid by the better specimens produced. Room again and light are important. Good specimens cannot be produced when the plants are stood close together and only moved apart when the foliage touches. Let them be so arranged that light and air reach every part of them and only start so many plants that there will be room for when fully developed. As the foliage develops, the roots naturally become more active and feeding will be necessary. Soot water is an excellent fertilizer if given in change with liquid made from shredded cattle or sheep manure and the plants will take a lot of it when the pots are filled with roots. They need it too as the great heads of flowers and the foliage make a great demand upon the roots which cannot be filled if the latter are tightly packed in poor soil. All through the growing season and until the flowers show color the heads must be sprayed daily, in ordinarily bright weather twice a day when hot and the atmosphere must be kept moist by freely damping around the pots and under the benches. These few simple details carefully carried out will enable anyone, no matter of how little experience, to grow this, one of the finest decorative plants, to perfection.

COMMERCIAL.

CHAMPAIGN, ILL.—Thos. Franks celebrated his sixty-fifth birthday on February 8. The new range of houses of Thos. Franks & Son is producing a fine cut of roses and carnations at this time.

HOUSE OF HYDRANGEAS AT ESTABLISHMENT OF J. W. DUDLEY & SON, PARKERSBURG, W. VA.

Dahlia Notes.

If the work has not already been attended to look over the dahlia stock. Many a partially decayed tuber may be saved by removing the decayed portion. All decayed tubers should be removed and burned or thrown where they will not infect the soil where the dahlias are to be planted this season. There is no doubt that certain kinds of rot are infectious. Rot of all descriptions is most prevalent, while the tubers are in a dormant condition. In fact, I doubt if they are ever attacked while in a growing condition.

Some varieties are much more susceptible to rot than others; indeed some are so susceptible that we always count on the percentage of loss from this cause. A notable instance is the popular Grand Duke Alexis. Other varieties there are that are rarely, if ever, attacked and seem to be immune to all disease troubles. Rot is usually caused by improper storage methods and yet it cannot be justly said that it is always so for an occasional clump will decay in spite of all precaution. The stalk of the previous season's growth is a prolific source of infection. This stalk nearly always decays down to within an inch or two of the crown. It should be cut off at or a little below the surface of the ground and then there will be little or no decay from this source.

In early February all stock should be worked over and examined. If it is keeping well on the tops of the bins or barrels, it is not likely that there is trouble farther down. But if some decay is found, go down as far as it extends, removing everything in the nature of soft or wet rot. Air slacked lime is an excellent article to dust over affected stock, or the clump may be dipped in Bordeaux mixture—just dip and out again. Where it is found that stock is not keeping well it should be brought into warmer quarters where the eyes may start as soon as possible. This is a most effectual way of checking rot. It is well to remember, however, that an ounce of prevention is worth several pounds of cure.

Dahlias should never be stored in winter quarters where there is decayed matter or where the walks are damp and moldy. Dampness in itself does no harm, for dahlias will keep nicely in a pit in the open if an arrangement for a little air is made. The danger lies in the damp air becoming stagnant and foul. An ideal place of storage is a clean, cool cellar, where there will be some circulation of air and at the same time security from frost. It is advisable to cover the tops of the bins, barrels, or boxes after they are full with paper and for this covering newspapers will answer every purpose. Sand makes a good packing material where only a few are to be stored but it is too heavy where a large quantity is handled, and unless new sand is used each year it may contain disease germs. Just here let us remark to our eastern readers that the past season's drought throughout the east and middle west has probably produced conditions that will cause considerable rot in dahlia stock. In fact, several bad reports have already come to my notice. I recall the season of 1902 when there was a severe drought throughout the west and even the irrigation ditches out here failed us. The winter following we lost nearly one-half our stock. It rotted in spite of all we could do to save it. And yet in spite of all the foregoing the fact remains that the dahlia tuber is probably as easily kept and with as little loss as any class of tubers or plants grown that have to be wintered over.

W. W. WILMORE.

Alaska-Yukon-Pacific Exposition.

For all who love flowers, the Alaska-Yukon-Pacific exposition, which will open in Seattle, Wash., on June 1 of the present year, will offer satisfaction, and a field for investigation and experimentation to which attention has not heretofore been called. To the florist and horticulturist it will offer climatic conditions existent nowhere else in America, with the consequent new problems and interesting demonstrations, and a range of native flora almost unexplored.

More than in any other world's fair the promoters of this exposition have

relied upon the splendid capabilities of nature, scientifically controlled and directed, for the beautification of the exposition reservation. Sculpture there will be in plenty, splendid works of Frolich and other molders, set throughout the grounds, but it is in the magnificent garden scheme, set into a landscape of transcendant beauty, that reliance is placed and which will be the exposition's proudest boast. The three telling features are three vistas, Rainier vista, Washington vista and Union vista, which give out from the central exposition feature—the cascade court and geyser basin—upon a world of heaven-aspiring snow capped mountains, and gem-like lakes. These three vistas tie in finely with the architectural formality of the central features, making one grand piece.

The chief one is Rainier, which is on the main axis. As one looks down from the geyser basin, the first feature is the formal garden, which consists of a geometrical design, a parterre, the different divisions of which are bounded by hedges of Berberis Thunbergi, which will be kept low. The east and west divisions of these formal gardens will be devoted to hybrid perpetual and tea roses. The central part will be devoted to herbaceous perennials and annuals.

For half of their distance the sides of Rainier vista are lined by hedges of Douglas fir. These have already been planted and are of an average height of 20 feet and have been clipped into a formal hedge. It may be interesting to know that all of these firs were gathered from the native growth on the exposition grounds. A grass strip between the walks and this hedge of fir, will provide a formal ornamental arrangement of vases with flowers, sculptured seats, lamp posts and flower beds. The central portion from the lower line of the formal gardens, to a point half way down, where it dips between rather abrupt banks, is to go into grass. On the banks alluded to will be planted various perennials, among which generous use will be made of Coreopsis grandiflora and one of the native lupins.

Both Washington and Union vistas will have fir hedges, but only on part of one side of each. The vase treatment, a feature of Rainier, will be omitted, but the lamps, seats and flower beds will be similar. One of the leading features of both of the last named vistas will be the large lawn areas. In the case of Washington, all of this embellishment of grass, flowers and hedges will be greatly heightened in effect by a magnificent view of Lake Washington, lying below the exposition grounds, and, in the distance, the saw toothed Cascade mountains and Mt. Rainier, which towers to a height of 15,000 feet. In the case of Union vista, there are glimpses to be had through the growth, of some of the finest residence districts of the city, but so far removed and so set in woods as to enhance, rather than detract from the general woodland impression.

The geyser basin, part of the central feature, is surrounded by slopes on which there will be planted 100,000 tufted pansies (Viola cornuta hybrida). The varieties used will be Sutton's Giant Yellow, Sutton's Giant White, John Quarton and Blue Perfection. At the tops of these slopes will be a 2-foot horizontal upon which will be an arrangement of perennials and annuals of a taller growing habit than the pansies. In the cascade court, which has similar slopes, the banks are planted with Dorothy Perkins rose, among which will also be planted many annuals and herbaceous perennials, to add to the display made by the rose and also to continue the display after the rose has ceased to bloom.

Along the agriculture and manufactures palaces, which flank the court, will be a large display of the official flower, the cactus dahlia. A large display will also be made of the state flower, the wild rhododendron (Rhododendron Californicum). This is a species closely related to the eastern R. maximum, which it very much resembles and is sometimes mistaken for. The big fun feature of the exposition will be the pay streak. It will be the Seattle equivalent for the Midway at Chicago, the Pike at St. Louis, only it promises to exceed either of these in noise, color and amusement. In keeping with the character of the section that portion of it which is between high sloping banks, will be made a riot of color. For this, bright flowered geraniums, mostly red, will be used exclusively. To the growing of these geraniums and also an immense lot of other annuals, from seed and cuttings, 9,000 square feet of greenhouse room is devoted. There are also many hundred sash, both cold frames and hotbeds. In one of the greenhouses, to make up for sunlight which is absent through the midwinter months, three lights are used. The greenhouses are located in the nursery, which comprises about 10 acres, mostly devoted to herbaceous perennials.

To return for a moment to the central features; on the manufactures and agricultures buildings are immense pergolas which will be covered with vines of various kinds, and on the balustrades of the cascades and geyser basin are vases

of the same design as used in Rainier vista. These will be planted, in the center, with tall-growing plants and hanging plants will be planted on the sides. The tall growth will probably be Phoenix Canariensis.

There is still left standing much of the original forest cover. While these trees are not as large as some of the celebrated trees of California, for instance Sequoia gigantea and S. sempervirens, they are still very large indeed, when compared with eastern tree growths, some of them being 250 feet in height. For the most part, these are Douglas fir. The landscaping contract is in the hands of Olmsted Bros., and James Frederick Dawson, their special representative on the grounds, has personal direction.

Formosa Lilies.

The so-called Formosa lilies do not come from the island of Formosa, but are grown in some of the smaller islands of Japan. Probably the island of Ohima is the most important source of supply at present. They are southeast of Japan, in the warm tropical streams. These lilies are seedlings brought from the island of Formosa and consist of a mixture of all kinds of lilies, some are Multiflorum, some Giganteum, some Eximium. The growth of these lilies has been effected by planting them in the warm climate of these islands to such an extent that they mature earlier than the lilies of Japan. Shipments were received in Chicago this year about the middle of August. The growers who bought them last year were very much pleased with the results, and there was a large increase of planting of Formosa lilies this year.

The Formosa responds more quickly than the Japan lilies to greenhouse culture. Of those that were planted about the middle of August, some came in bloom by the middle of December. The greatest trouble with these Formosa lilies seems to be that they grow all heights, some are only 12 to 15 inches tall, and from that up to five feet. This causes a constant shifting of the pots in the benches to keep the tall plants from shading the short ones.

There seems to be no difference in the flowering qualities of the different varieties, as the Giganteum or black stems were in bloom just as early as the others. They all seem to be practically free of disease. So far the bulbs that are being distributed are very small. While the dealers send them out under the grade of 6/8, that is 6/8 inches in circumference, they prove smaller on receipt of the goods.

The method of culture of the Formosa lilies is just the same as the other lilies, though they can be planted in the greenhouse as soon as potted, if desired to get them very early. The introduction of these Formosa lilies will cause quite a change in the demand for both the Harrisii and the Giganteum lilies. The Formosa are so much purer than the Harrisii, and besides are just as early and as easy to grow as the Harrisii. A good many of the Giganteum have been grown for Christmas forcing. These Formosa lilies will take the place of that production of stock. It is hoped that the increased demand will not result in the Japanese spoiling the quality of the lilies by poor cultural methods.

WORCESTER, MASS.—W. L. Lewis, of this city and Marlboro, has made an assignment to William E. Clapp for the benefit of creditors.

To Be Done Now.

IN THE GREENHOUSES.

Thin the growth shoots on the old cutback plants of pelargoniums.

Wake up the stock coleuses and get them into growth for producing cuttings.

Sow cannas if any are to be raised this way, also Centaurea gymnocarpa and any annuals for early flowering under glass.

Continue to put in leaf cuttings of Begonia Gloire de Lorraine and similar varieties until a sufficient stock is insured.

Propagate sweet alyssum freely now also lobelias and the green and variegated vincas.

Finish the potting of imported hydrangeas and other stock and get them started or keep in a cool house according to when they are wanted in flower.

When very cold weather necessitates hard firing see that plenty of water is used around the houses to soften the temperature and prevent the rapid propagation of insects.

Keep a bright look out for green fly, especially when cold winds prevail outside, and fumigate lightly directly the first insects are seen.

Propagate any chrysanthemums of which stock is scarce, and the plants can be topped and the tops rooted later.

Root fuchsia cuttings cool and keep the plants in cool growing quarters right along.

Keep cut back bouvardias fairly dry at the roots but spray the heads regularly in bright weather. This will induce a free growth of young shoots that are wanted now for cuttings.

OUTDOORS.

Where concrete work is in progress always have the mixing board and all tools thoroughly washed and clean before putting away for the night, or much time will be wasted in the morning removing the hardened cement.

Should the young shoots of Eremurus Himalaicus or E. robustus show through the surface soil see they are covered again with soil or protected in some other way. Mild spells in winter often excite these plants.

Mix plenty of lime rubbish or old building refuse and burnt soil or garden rubbish with the soil for cucumbers and tomatoes.

Prepare the quarters for tree planting with as much care as would be given to vegetable or flower quarters.

When the weather is suitable push on with the preparation of the soil for asters, sweet peas and other crops that are to be grown in quantity for cutting but keep off when wet.

Look over the hardy perennials stored in frames occasionally when the weather is mild, removing any damaged leaves or decayed stems. A good airing occasionally, even before the covering is removed, will do good and prevent early growth.

Use plenty of rough moss, hay or some such material between the roots when packing trees to prevent their being broken or twisted when tying the bundles.

Twenty Years Ago.

FEBRUARY, 1889.

John Thorpe was working along the lines of forming a national chrysanthemum society.

The giant ghost flower was the name given to Datura arborea.

A New Jersey mushroom grower was said to be so jealously guarding his "secrets" in growing this crop that visitors were confronted with a "rough looking man a a couple of big vicious looking dogs."

They called it "salting" then not "pickling."

Freight rates on pots was a vexed question.

Rose Souvenir de Wootton, raised by John Cook of Baltimore and named in honor of the occasion when Geo. W. Childs entertained the Society of American Florists at Wootton was among the novelties.

Crude petroleum was being used as a preservative for wood used in bench bottoms.

A fine orchid show was held in New York by Siebrecht & Wadley, Coelogyne pandurata was among the unusual plants shown, and a fine albino of Cattleya Trianæ valued at $1,000.

What is the cost of producing water gas for fuel? was a question suggested by John Temple of Davenport, Ia., for answer at the coming S. A. F. convention.

French Gardeners' Society of London, Eng.

I have just read with no little interest the autobiography of that well known Franco-American, Louis Menand. Seated a few nights ago by the side of a young Burgundian gardener, I could not help thinking how much Louis Menand would have enjoyed the evening spent at the Café Royal, London, at which were gathered many French gardeners living in and around our great metropolis. The occasion was the celebration of the twentieth anniversary of the society, and Sir Albert Rollitt, president of the National Chrysanthemum Society, was in the chair. That fact was sufficient to bring together a large and appreciative audience of Englishmen and Frenchmen, for Sir Albert is not only a fluent but a most entertaining after-dinner speaker.

The French Gardeners' Society and the National Chrysanthemum Society have always been fast friends, and therefore many of Sir Albert's colleagues were among the visitors. When the time for speech making arrived, Sir Albert, wearing the cross of officer of the Legion of Honor, out of compliment to the Frenchmen present, proposed the healths of the president of the French republic and King Edward VII. Then followed the toast of the evening, "Prosperity to the Société Francaise d'Horticulture de Londres." Brimful of humor and quaint stories, Sir Albert Rollitt traced the history of the society from its early days, eulogized the devotion of its president, George Schneider, and paid a tribute to the ability of the society in promoting good will between the gardeners of the two countries. We regret our space will not allow us to give a fuller report, as many of the French gardeners in America would be peculiarly appreciative of this fraternal Anglo-French gathering, which assumes a more important character year by year. Owing to the death of M. Ouvrard, the society's honorary president, it was announced that the eminent French nurseryman, M. Philippe de Vilmorin, had accepted the vacant place. Various toasts, including those of the chairman, past chairman, the officers and the press, were given and duly honored. A presentation was made to C. Harman Payne for his cooperation at the recent Paris autumn show, Sir Albert Rollitt speaking in the warmest terms of Mr. Payne's services in international horticulture, particularly having regard to his journalistic work. The young French gardeners present made a presentation of a silver bowl to the chairman of the soicety, George Schneider, and a very happy evening closed by the company singing "God Save the King," "Auld Lang Syne," and the "Marseillaise." P.

A Strawberry Romance.

A. B. Henthorn has returned from Van Buren, Ark., bringing with him a bride. Quite a romance is connected with the marriage. Two or three years ago Mr. Henthorn purchased a box of strawberries which contained a note with the name and address of the sender. This was the beginning of a correspondence which ripened into mutual love and culminated in their marriage at Van Buren.—New York Sun.

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WHINIVER annybody offers to give ye somethin' f'r nawthin,' or somethin' f'r less thin it's worth, or more f'r somethin' thin it's worth, don't take any chances—yell f'r a polisman.—Dooley.

THE S. A. F. medals and certificates awarded at the National Flower Show have all been delivered. The silver gilt medal is an especially handsome thing.

MISS HILL'S Indianapolis address, which appears in our issue of February 6, page 62, deserves a prominent place among the classics of American floriculture.

THE one-hundredth anniversary of Lincoln's birthday gave retailers a fine opportunity for originality in their window dressing which was taken advantage of by many.

F. R. PIERSON says the standard yield from roses under glass today is $1 per square foot, ground area, including paths as well as benches, and for carnations 50 cents per square foot. Where the yield is less the grower is losing money.

AGAIN we must request all correspondents seeking information through our columns to sign their communications and give their full address. We are repeatedly receiving unsigned letters and postals, often with a blurred postmark, and it is usually quite impossible to locate the senders.

THE "Annual Proceedings and Bulletin" of the American Rose Society (1908) is a most interesting publication containing, as its title indicates, the full proceedings of the society during the year just passed with especially complete reference to the show held at the Art Institute in Chicago in March.

THE rules and prize list for the third spring exhibition of the St. Louis Horticultural Society, to be held March 24-26, has been received. The prize list is a good one and among the interesting classes are one for a display of hardy shrubs in bloom, for which $25 is offered as a first premium, and a table decoration of spring flowers, for which $20 and $15 are offered. Otto Koenig, 6473 Florissant avenue, is secretary.

F. VON STRANTZ has obtained a German patent for a process of destroying insects on plants by the application of a mixture of lime water and the ammoniacal liquor of gas works. The patentee states that neither lime nor ammonia, used alone, is a certain insecticide in dilute solution, and that strong solutions are injurious to plants, especially green plants, but that mixed solutions of the two alkalies, too weak to do any damage to the plant, infallibly destroy all insect parasites.

American Rose Society.

EXHIBITION AT BUFFALO, MARCH 17-19.

The spring exhibition of roses is to be held in the Iroquois hotel and here will be the headquarters. The proposition is advanced to make it a free exhibition, in other words, to popularize it to the fullest extent. Buffalo has a large population and Vice-president Kasting is active; his firm will receive any exhibits sent to it. J. Rowland Cloudsley, secretary of the Buffalo Florists' Club, 584 Main street, is appointed manager of exhibits.

Special prizes have come from various parties not mentioned in the preliminary schedule which has been distributed. Various inquiries are coming concerning exhibits. The pot rose class seems to be awake. The rose is the state flower of New York and all amateur growers are invited to take a lively interest for it's "A Rose For Every Home, a Bush for every Garden."

BENJAMIN HAMMOND, Sec'y.

Society of American Florists.

REGISTRATION OF HYBRID ORCHIDS.

Public notice is hereby given that Chas. G. Roebling, of Trenton, N. J., offers for registration the plants described below. Any person objecting to the registration of these plants or to the use of the proposed names is requested to communicate with the undersigned at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Hybrid cattleya, Oakland.—A hybrid raised from Cattlyea crispa X C. Hardyana (Young's var.); habit of growth, intermediate between the two parents and very strong growing; flowers of good size and substance. Lip two inches broad and well rounded; color deep purple; throat bright yellow with deep bronze veins; petals 2¼ inches wide, color light pink, veined and mottled like Cattleya Hardyana; sepals one inch broad, also light pink in color.

Hybrid cattleya, Eureka.—A hybrid raised from Cattleya crispa X C. Hardyana alba; habit of growth, much after the style of Cattleya crispa; flowers of good size and substance; petals and sepals are broad and pure white with quite a little of the Cattleya crispa curl to them; lip broad and of a very bright deep color with yellow in throat.

Hybrid lælio-cattleya, Magenta.—A hybrid raised from Lælia tenebrosa X Cattleya maxima; habit, smooth, bulb 15 inches long, single leaved; very like Cattleya maxima but much stronger; flowers large, the same shape as those of Lælia tenebrosa flowers but having a rich magenta color throughout.

W. N. RUDD, Sec'y.

February 5, 1909.

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibition, le Jardin des Tuileries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

Meetings Next Week.

Boston, Mass., February 16.—Gardeners' and Florists' Club, Horticultural Hall.

Boston, Mass., February 20, 11 a. m.—Massachusetts Horticultural Society, Horticultural Hall, 300 Massachusetts avenue. Paper on "American Landscape Architecture," by Prof. F. A. Waugh, Amherst, Mass.

Detroit, Mich., February 15.—Detroit Florists' Club carnation night. Paper on "Carnations," by Thos. F. Browne.

Grand Rapids, Mich., February 15.—Grand Rapids Gardeners' and Florists' Club, Board of Trade Rooms, Pearl street.

Montreal, Que., February 15, 7:45.—Montreal Gardeners' and Florists' Club, Royal Guardian building, 211 Sherbrook street, West.

New Orleans, La., February 14, 8 p. m.—New Orleans Horticultural Society, Kolb's hall, 127 St. Charles avenue.

New Orleans, La., February 14, 2 p. m.—Gardeners' Mutual Protective Association, 118 Exchange alley.

Newport, R. I., February 17.—Newport Horticultural Society.

Pasadena, Calif., February 19.—Pasadena Gardeners' Association G. A. R. hall, East Colorado street.

Philadelphia, Pa., February 16, 8 p. m.—Florists' Club of Philadelphia Horticultural hall, Broad street, below Locust.

Providence, R. I., February 15, 8 p. m.—Florists' and Gardeners' Club of Rhode Island, 96 Westminister street.

Salt Lake City, Utah, February 16.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

San Francisco, Calif., February 20.—Pacific Coast Horticultural Society.

Scranton, Pa., February 19, 7:30 p. m.—Scranton Florists' Club, Guernsey building.

Seattle, Wash., February 16.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.

St. Paul, Minn., February 16, 8 p. m.—Minnesota State Florists' Association, 510 Snelling avenue, North.

Toronto, Ont., February 16, 8 p. m. Toronto Gardeners' and Florists' Association, St. George's hall, Elm street.

Worcester, Mass., February 18.—Worcester County Horticultural Society, Worcester County Bee-Keepers' Institute.

OBITUARY.

Alex. Von Assche.

Alex. Von Assche, a grower of Elmhurst, N. Y., died February 4 after a lingering illness of nearly two years. He was a native of Switzerland, but came to this country a number of years ago. He was formerly located at Woodside, L. I., but recently removed to Elmhurst. He is survived by a wife and was 39 years of age at the time of his death.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By a single man 32 years old; 15 years experience; can grow carnations, pot p'ants etc. state wages. Address Key 778. care American Florist.

Situation Wanted—A sober young man aged 22' has experience in carnations bedding and bulbous stock, and who is also a landscape gardener wants a position; can furnish excellent rererence. Key 777, care American Florist.

Situation Wanted—As foreman or manager by an all-round grower; am well up in all lines of the business; 17 years' experience; age 32 and married; American, strictly temperate and capable of giving best results. Address Key 776, care American Florist.

Situation Wanted—By all-around florist; thoroughly understands growing cut flowers general line of pot and bedding plants, also vegetables graduate Agricultural school; six years' experience; best reference; state wages, LOUIS ROCK, 1105 S. 3rd St., Philadelphia.

Situation Wanted—Single man, 28 years old, from Switzerland life experience in every line of gardening; 1½ years in this country, well educated speaks plain English, wants a position private place preferred. Address Y. O. H. F., care Ind. School F M. Youths, Ft. Wayne Ind.

Help Wanted—Reliable man, good grower of roses, carnations and bedding plants; give references in first letter and state wages wanted. F. WALKER & CO., Louisville Ky.

Help Wanted—First class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references, Key 747, care American Florist.

Help Wanted—First-class market gardener, one accustomed to growing vegetables in greenhouses and hotbeds, with some knowledge of carnations and bedding stock, and able to take full charge of 25,000 feet of glass; married man preferred; none but strictly sober person need apply; references. Key 753, care American Florist.

For Sale—Established wire design manufacturing business; snap if taken at once. Address Key 722, care American Florist.

For Sale—Some good 3 inch pipe guaranteed sound, 6c foot; several small boilers cheap. W. H. SALTER, Rochester N. Y.

For Sale—Vols. 13, 16, 17, 18, 20 21 22, 23, 24, 25 and 28 American Florist; what am I offered? A. L. WHEELER, Florist. 214 S. Adams Ave. Mason City, Ia.

For Sale—5000 feet of glass; no competition; can sell more than you can grow at highest price; write for particulars. DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—An old established, first-class retail store with palm houses attached, in Chicago, south side; reason for selling, other business. Key 659, care American Florist.

For Sale—Greenhouse 6 000 feet glass near center of growing town of 7,000 inhabitants in heart of Rocky Mountains; good trade; no competition; price $4.000. J. H. FREEMAN. Salida Colo.

For Sale—Five greenhouses, glass 16x24, by Lord and Burnham, well stocked with carnations, bedding plants, etc., with nearly new seven-room cottage, heated and running water, two blocks from station in a good growing town, famous summer resort on the Jersey coast; one hour from New York by train or boat; will sell on easy terms JOHN BENNETT, Atlantic Highlands, N. J.

TO LEASE.

Established florists' business in a thriving southern city; 60,000 ft. of glass sale for everything you can grow house well stocked with roses carnations, lilaes, orchids, ferns, palms, etc., which will be sold at a reasonable figure; large plot now under cultivation suitable for truck gardening also six-room dwelling adjoining same; best of reasons for wishing to lease at a low price. Address **Key 773, care American Florist.**

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,
125-133 W. Superior St. CHICAGO, ILL.

For Sale.

Secondhand Boilers, Tubular and Firebox shapes. Suitable for hot houses and the like where low pressure is required. Let us know what you want, we have it.

RYAN BROS.,
29 N. Clinton St., CHICAGO.

For Sale.

One second hand Hot Water boiler capable of heating 3,500 ft. 4-in. pipe.

Superior Machine & Boiler Works,
125-133 W. Superior St., CHICAGO, ILL.

Help Wanted.

L. S. Donaldson Co., Minneapolis, will give immediate permanent employment to a thoroughly capable man as manager of their cut flower and plant department. State experience, references, salary last received and other particulars. Address SUPERINTENDENT L. S. DONALDSON COMPANY, Minneapolis, Minn.

FOR SALE.

Established wholesale and retail florist business, consisting of 25,000 feet of glass. This is one of the best places in central New York; everything being nearly new and in first-class condition. Has two boilers either one capable of heating the entire plant. The stock consists of a general line of plants and cut flowers, and is well equipped in every way. Here is your opportunity for a paying business. Come and look the place over and the plant and the books will prove all that I say Would also consider a proposition to rent.

E. J. BYAM, 408-16 Elm St, Rome, N. Y.

WANTED

March 15th. An experienced, energetic gardener thoroughly acquainted with hardy stock, garden making, grading, trimming, etc. Permanent position to right party. State references and salary.

The Elm City Nursery Co.
NEW HAVEN, CONN.

Get Into Business For Yourself

Are You a Foreman or Working Florist?

Here is an Opportunity for You.

Greenhouses, Store, Stock and Trade

to be sold at a bargain Established in 1902, 1908 trade $5900 00, 47% increase over 1907. No competition within 40 miles. Firm has advertised itself into a successful business. If you are in a position to invest write. Please do not send idle inquiries. Address

Box 765, Nebraska City, Nebr.

Make Your Want Known

If you want to get rid of it. A want advertisement in the

AMERICAN FLORIST

will do what you want. Try it now. Back of every ad is a real want, so it pays to answer them. : : : : :

Notice to the Trade

MILLANG BROS., at 41 West 28th Street, New York, announce that Charles Millang has no connection with the firm of Millang Bros.

AUGUST MILLANG.

Baltimore.

RETRENCHMENT ABROAD.

This seems to be a month of ups and downs in all respects—weather, trade, and production. The first factor in business, material for distribution, has been somewhat erratic, a great scarcity one day and a surplus the next. There are a good many social events demanding flowers, plants and decorations, but the scale of expenditure seems as a rule to be brought down to a lower level, and there is a disposition to cut off here and retrench there. Indeed, notwithstanding we are now in what is considered the very height of "the season," there is not the dash and go of former years, but rather some restraining disposition to limit expenditures along the lines of the florists' art. Winter weddings have not been very numerous, certainly not those in fashionable circles which involve heavy disbursements in house and church display. Doubtless the post-Easter season will make amends since the general law of averages seems to prevail in the department of activity just as much as in other lines. Carnations are irregular in supply, some days not enough coming in for the calls. Roses increase in numbers, but the quality is not of the best, with of course, some exceptions. The less important contributions to the general stock, such as freesias, Dutch bulbs, etc., are quite abundant enough.

NOTES.

John Cook, whose position as the first of American rose hybridizers stands unchallenged for long continuance, intelligent devotion and successful results, keeps constantly at his work and has many interesting and presumably profitable experiments in progress. To a layman, the number and variety of his crossings, the patient care with which they are marked and pursued, the great number of roses which he collects from American and European sources, to observe and determine as to their fitness for his tests, makes an accumulation of facts hard to comprehend, but he keeps a clew to the labyrinth clear and undisturbed. It is curious how his popular rose, My Maryland, is throwing sports. He has two already which are much darker in color and fuller in substance than the type; and stranger still, another whose color is lemon yellow. Notwithstanding his years and an occasional rheumatic twinge, Mr. Cook keeps about and active and joins the occupations of a sound mind to those of a well preserved body.

Robt. Carll of the Florists' Exchange is at last recovering from his long fight with blood poisoning, after the removal of the large piece of glass embedded for years in his arm.

There is no change in the condition of Mrs. Schuler-Thomas.

S. B.

Los Angeles, Calif.

Many street corners in the busy section are occupied by fakirs with large quantities of violets which they sell at five cents per bunch and almost every lady you meet has one or more bunches pinned on.

Howard & Smith, whose main plant is at Montebello, with a branch at Ninth and Olive streets, this city, have a fine lot of specimen palms, principally kentias. They now have five acres under cover, mostly slat houses, at the Montebello plant and not a scale to be found on the whole place. This place embraces 35 acres located at the foothills where they are sheltered from the north. They have a very large collection of hardy plants among which their dahlias and irises are among the finest in the country.

Frank Warner in charge of the Palm Nursery in Oneonto park reports business good. They have some large contracts for specimen acacias, camphors and palms for lawns and boulevards; a fine lot of azaleas on this place bid fair to do well for Easter.

The Redondo Floral Co. is displaying a fine lot of plants in its roomy Spring street store, and has been kept on the jump lately with funeral work.

The Germain Seed & Plant Co. is making its usual window display which attracts so many tourists, and reports a very favorable season.

PACIFIC.

GALAX, FERNS, LEUCOTHOE

These goods are to be had from old stock at any season of the year, but getting them STRICTLY FRESH PICKED at this season is something else. However, we have facilities for getting them. A trial order will convince you.

	Per 1000		Per 1000
Galax, green or bronze	$ .50	**Fancy** and **Dagger Ferns**	$1.00
Leucothoe, green, about 20 to 36 in	2.50	**Rhododendron Sprays**, extra large	3.00
" green, about 10 to 20 in	1.25	**Kalmia** or **Mountain Laurel**, extra large	3.00
" bronze, extra good lengths	3.00		

Cash with first order. **Quality Guaranteed.** Reference. Citizens' Bank of this place.

T. J. RAY & CO., Elk Park, N. C.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales $1.25
Leucothoe Sprays ..... $1.00 per 100; 1000, 7.50
Boxwood ..... 35c per bunch; 50 lbs., 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. **DETROIT, MICH.**

FANCY.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

WE NEVER DISAPPOINT. SATISFACTION GUARANTEED.

DAGGER.

Galax, Ferns, Etc.

New crop, fresh from the patch, prices as follows:

Bronze and **Green Galax Leaves**	$0.50 per 1000
Fancy and **Dagger Ferns**	1.00 per 1000
Green Leucothoe Sprays	2 50 per 1000
Bronze Leucothoe Sprays	4 00 per 1000
Rhododendron Sprays	2.00 per 1000
Mountain Laurel	2.00 per 1000

Discount on large orders. Fifteen years experience enables me to guarantee perfect satisfaction 250 customers now in U. S. Send cash with first order.

J. A. PRITCHARD, Elk Park, N. C.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,
EVERGREEN, ALA.

Southern Wild Smilax

Price per case of 50 lbs., f. o. b. Evergreen $2.00. Satisfaction guaranteed.

J. A. RUMBLEY, Evergreen, Ala

IF YOU ARE WANTING NICE, CLEAN

Sphagnum Moss

FOR DESIGN WORK,

Place your next order with us. We sell at the following prices. Terms: Cash with order.

Per 1 bale of 5 bbls	$ 1.60
Per 5 bales of 25 bbls	7.25
Per 10 bales of 50 bbls	13.50
Per 1 bale of 7½ bbls	2.25
Per 5 bales of 37½ bbls.	10.00
Per 10 bales of 75 bbls	18.00
Per 1 bale of 10 bbls	3.00
Per 2 bales of 20 bbls	5.50
Per 5 bales of 50 bbls	12.50

Brookville Moss & Peat Co.
BROOKVILLE, NEW JERSEY.

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax Ferns, Palm Leaves** and all kinds of **Green Goods.**

FORMOSA LILIES

We are cutting 500 lilies per day. Extra choice, with long stems, $12.00 per 100.

Beauties, Richmond, Killarney, Maids and **Brides** are grand in quality now.
Fancy Carnations, Bulb Stock and **Greens.**

AMERICAN BEAUTIES.

	Per doz.
Extra long	$ 6.00
Stems 24 to 30 inches	4.00
Stems 20 inches	2.00
Stems 15 inches	1.50
Stems 12 inches	1.00

KILLARNEY and RICHMOND.

Extra long and select, per 100	$10.00 to $12.00
Good average lengths, per 100	8.00
Medium lengths, per 100	6.00
Short lengths, per 100	4.00 to 5.00

BRIDES, MAIDS and PERLES.

Extra long and select, per 100	$10.00
Good average lengths, per 100	8.00
Medium lengths, per 100	6.00
Short lengths, per 100	4.00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100	$ 5.00 to	$ 6.00
Pink and white, good stock, per 100	2.00 to	4.00
EASTER LILIES, Giganteum, per doz., $2; per 100		**$12.00**
LILY OF THE VALLEY, per 100	**2.00 to**	**4.00**
PAPER WHITES and ROMANS, per 100	**2.00 to**	**3.00**
TULIPS, All Colors, per 100	**2.00 to**	**4.00**
GOLDEN SPUR NARCISSUS, per 100	**2.50 to**	**3.00**
ASPARAGUS STRINGS, heavy, per string		**.40**
ASPARAGUS SPRAYS, per 100	**2.00 to**	**3.00**
SPRENGERI, per 100	**2.00 to**	**3.00**
SMILAX, per doz		**1.50**
ADIANTUM, per 100		**1.00**
GALAX, bronze, per 1000		**1.50**
GALAX, green, per 1000		**1.25**
FERNS, per 1000		**2.00**

O. P. BASSETT

The Ideal Red Carnation

Here is what it did at the Convention of the American Carnation Society in Indianapolis, January 27th and 28th:

First---As the Best Red Carnation.

Bronze Medal of the American Carnation Society as the third best vase of 100 blooms any color, and

Cash Prize of $30.00, Gold, in class A, any color or variety.

O. P. Bassett has been grown by us for six years and has been thoroughly tested out in the various shows and on the market. It has never been beaten. If you are looking for the best Red Carnation then order the Bassett.

PRICES:

Rooted Cuttings	per 1000, $60 00	Rooted Cuttings	per 50, $4 50
" "	per 500, 35 00	" "	per 25, 2 50
" "	per 100, 8 00	" "	per 12, 1 50

We also offer Kaiserin and Perles at $3.50 per 100, and Maids, Brides and Richmonds at $1.50 per 100; all well rooted cuttings.

Bassett & Washburn

Greenhouses: Hinsdale, Ill. Office and Store: 76-78 Wabash Ave., CHICAGO.

White Lilac | **Violets** We Are Headquarters.

Coming in fine. $1.50 per bunch.

Killarney We are without doubt getting in the finest long, stiff stem Killarney Roses coming into the Chicago market.

We have the best in large supply.
Let us have your next order.
And all other CUT FLOWERS and GREENS. Best that can be grown and packed with care,

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

WEATHER CUTS DOWN SUPPLY.

The demand has been somewhat affected by the bad weather, but receipts have also diminished. Considering everything, however, trade has been very good. Retailers generally report a better business, with an improving demand and a little more willingness on the part of buyers to pay the price. There have been indications the past few weeks of an improving wholesale trade also, although prices here are little affected. American Beauty roses are very scarce; the long stems are of fair quality, but medium and short are generally poor. Other roses are very fine, and plentiful enough for the slack demand existing early in the week. Some of the finest Cardinal ever seen on this market are now coming in. Carnations, affected by the weather are not very good; the better grades cleaned up well, but the poorer grades moved slowly. Bulbous flowers are coming in quantity and are slow sale. Lilies are in very good demand, the supply having shortened up somewhat. Violets have not been nearly so numerous as during the two previous weeks. The ups and downs of the violet business have been considerable this season with more downs than ups. There has been some inclination to criticise the growers for unloading large lots on this market when sales have been slow in the east and then seriously curtailing shipments when the eastern market improves again. Some believe it within the power of Rhinebeck growers to control the distribution to better advantage to all concerned.

Orders for Lincoln day have been coming in well and this with the usual demand for St. Valentine's day is expected to create a good, stiff market for the latter part of the week.

FLORISTS' CLUB MEETING.

The regular monthly meeting of the Florists' Club took place Thursday evening, February 4, with a very good attendance. The newly elected officers were formally installed, all of which were present excepting T. E. Waters. On taking the gavel, President Asmus made a speech outlining his plans and hopes for the work of the club, suggesting among other things that there be a topic of live-interest to the trade up for discussion each meeting.

Perhaps as interesting a ceremony as any was the presentation to the retiring president, Leonard Kill, of a token (a beautiful watch charm), in recognition of his services the past year to the club.

A. T. Hey, president of the Illinois State Florists' Association spoke of the work of that organization and of its plans in furtherance of the floricultural interests and urged that members of the club make an effort to attend the Springfield convention, February 16-17.

The following were elected members: Robt. Lange, 1912 N. Whipple street; H. A. Olson, 3136 North Robey street. The following were nominated for membership: Geo. Ambrust, Oak Park; Chas. Zapfl, 753 Thorndale; R. F. Simons, 848 W. Harrison; F. Merker, 1603 W. Twenty-second street; Chas. Bemish, 45 Wabash avenue; Chas. S. McCauley, Geneva; Emil Maerz, 242 N. Winchester; Paul Kubish, 45 Wabash avenue; F. Ayers, 396 Ontario street; F. Haage, 718 N. Leavitt street; F. Krause, 62 Racine avenue.

The following committees were appointed by President Asmus:

Bylaws: A. T. Hey, H. B. Howard and L. Coatsworth.

Finance: H. N. Bruns, J. F. Klimmer and Walter Scott.

Transportation: P. J. Foley, August Poehlmann and A. T. Pyfer.

Good of the club: Ed. Enders, Frank Pasternick and A. F. Longren.

Sports and pastimes: David Erickson, chairman.

HORTICULTURAL SOCIETY OF CHICAGO.

The special meeting for the election of a secretary took place at the Art Institute February 9 at 3 o'clock, President Kelley in the chair. There were two candidates, J. H. Burdett and N. P. Miller, the majority of the ballots going for the former. It was unanimously decided to present the silver medal of the society to the retiring secretary, E. A. Kanst, who has so long and faithfully served the organization.

NOTES.

Winterson's Seed Store has its new retail seed and plant catalogue ready for distribution.

W. L. Herendeen, the boiler man of Geneva, N. Y., was in town last week.

The Poehlmann Bros. Co. is growing a fine lot of Bon Silene roses.

(CONTINUED ON PAGE 128.)

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
My plan for saving you money in your buying would interest you. If you are a buyer of cut flowers let me hear from you.
21 Wabash Avenue, CHICAGO.

PETER REINBERG,
35 Randolph Street, CHICAGO.
Phone Central 2846.
Largest Grower in the world.....
Will Take Best Care of Every Order.
1,800,000 Feet of Glass.

PRICE LIST:

Carnations $2.00 to $3.00 per 100

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$5 00
36-inch stems	4 00
30-inch stems	3 00
24-inch stems	2 50
20-inch stems	2 00
15-inch stems	1 50
12-inch stems	1 00
Short stems	75

	Per 100
MRS. MARSHALL FIELD	
Extra select	$10 00 to $12 00
Medium	5 00 to 8 00
RICHMOND and KILLARNEY	
Select	10 00 to 12 00
Medium	5 00 to 8 00
GOLDEN GATE	4 00 to 8 00
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and BRIDESMAID	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
VIOLETS	1 00
ADIANTUM	1 00 to 1 50
ASPARAGUS	50c to 75c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

WEILAND-AND-RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
50 Wabash Ave., CHICAGO.
'Phone Central 873.
Write for our wholesale price list.
WHOLESALE FLORISTS

E. F. Winterson Co.

45-47-49 Wabash Ave, CHICAGO.
Long Distance Phone, Central 6004.

Wholesale Cut Flowers and Florists' Supplies

All cut flowers in season at Chicago market quotations

Write for our NEW SUPPLY CATALOGUE. It will interest you.

Consignments of CUT FLOWERS Solicited.

"THE BUSIEST HOUSE IN CHICAGO"

Roses, Carnations,

And All Seasonable Flowers in Quantity.

J. B. Deamud Co.
51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L.D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders ——given prompt attention.——
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO Feb. 10.

Roses. Beauty, extra select	6 00
" " 36 in	5 00
" " 30 in	4 00
" " 20 to 24 in	2 50@ 3 00
" " 15 to 18 in	1 50@ 2 00
" " 12 in	1 00
" " Short	75
	Per 100
" Bride, Bridesmaid, select	10 00@12 00
" " " medium	6 00@ 8 00
" Chatenay, select	10 00@12 00
" " medium	6 00@ 8 00
" Golden Gate, Uncle John	6 00@10 00
" Kate Moulton	6 00@15 00
" Killarney, select	12 00@15 00
" " medium	8 00@10 00
" Mrs. Marshall Field, select	12 00@15 00
" " " medium	6 00@10 00
" Perle	6 00@12 00
" Richmond extra select	12 00@15 00
" " medium	8 00@10 00
" " short	6 00
Carnations	2 00@ 4 00
Callas, per doz.	2 00@2 50
Cattleyas ($9.00 per doz.)	60 00@75 00
Daisies	50@ 2 00
Freesias	3 00@ 5 00
Gardenias, per doz	6 00
Hyacinths, Roman	3 00@ 4 00
Lilium Harrisii, per doz.	2 00 15 00
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	4 00
Pansies	1 50@ 2 00
Stevia	1 00@ 2 00
Sweet Peas	75@ 1 50
Tulips	3 00@ 4 00
Violets, single	75@ 1 50
" double	75@ 1 50
Adiantum	75@ 1 00
Asparagus Plum, strings, each	50
" " sprays	2 00@ 4 00
" Sprengeri	2 00@ 4 00
Boxwood, per bunch	35
Ferns, fancy, per 1000	2 00
Galax, green, per 100 15; per 1000	1 00
" bronze, per 100 15; per 1000	1 00
Leucothoe sprays	75@ 1 00
Smilax, Wild, per 50 lb. case	5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

Chicago Notes.

THE RETAILERS' WINDOWS.

The combined attraction of the nearness of St. Valentine's day and the hundredth anniversary of Lincoln's birth gave the retailers a fine opportunity to give distinctive and attractive window displays. A few of the more prominent down-town effects are noted below:

Friedman had a most novel and distinct decoration. In his Michigan avenue window was a perfect model of a log cabin with logs and other country appliances around in apparent carelessness but really a carefully thought out, effective and excellent piece of work. A portrait of Lincoln, embowered in Asparagus plumosus was the chief feature of the Van Buren street window.

Fleischman's two fine windows had, as the leading features, portraits of Lincoln and Washington, one in each, framed in gilded leucothoe leaves while around were American flags well displayed and choice orchids, lilies and other stock. The excellent arrangement precluded anything like stiffness, while the whole tone of the windows was dignified and quite apropos of the occasion. It was simple, yet ornate and effective and a great credit to all concerned.

Harry Rowe had a very effective window made of heart-shaped violet boxes of various patterns, baskets and boxes of cyclamens, also well flowered azaleas in baskets. A very elaborate basket consisted of Azalea Vervæneana, Dracæna terminalis and mahonia with Asparagus plumosus interwoven with the high handle. A very pretty new fern dish of cut glass was also in this window, showing the so called Japanese air plants together with embalmed adiantum and pteris, something of a novelty in the way of preserved plants.

John Mangel's principal window was composed of a bronze bust of Lincoln framed in a large wreath of bronze leucothoe. A window across the doorway from this was of miscellaneous orchids, freesias, etc., and the broad side window was of American Beauty roses and large plants of Cibotium Schiedei.

A. Lange's window was a very attractive display with a dwarf magnolia in full bloom as the central feature. Pansies and violets were also a prominent feature suggestive of St. Valentine's day. His special $1 box of cut flowers, this time of carnations and greens, was also there. Above and over all was a huge American flag suggesting in its own way that this is Lincoln week.

Canger & Gormley, feature a large heart of red immortelles pierced through with an arrow of the same color. This heart is illuminated at night with tiny red incandescent electric lights. Around this was a general display including a most effective basket of white La Reine tulips and Spiraea Van Houttei (the so called bridal wreath).

The Bohannon Floral Co. showed a huge heart in outline made of red, heart-shaped violet boxes framing the portrait of Lincoln. Aside from this the window showed a general display, but a very dainty and effective valentine basket was of violets suspended from violet cord with three bows of violet gauze ribbon.

QUICK ACTION IN EMERGENCY.

At 4:30 o'clock on the afternoon of January 18, the Kroeschell Bros. Co., received a long distance telephone message from a Milwaukee florist to the effect that his boiler had given out and that his entire stock of plants was in danger of freezing. In spite of the lateness of the hour a new boiler was immediately loaded on a wagon and put on board a boat sailing that same night. It arrived in Milwaukee the next morning by 4 o'clock and within 24 hours of the original telephone message was in place and ready for firing. W. L. Kroeschell avers this is but one incident in several similar cases this winter.

VARIOUS NOTES.

The eastern end of Jackson boulevard would seem to have a great attraction for florists. We have Fleischman's magnificent store in the Railway Exchange building. Friedman, we are credibly informed, is moving to what is now a barber's shop, just opposite, owing to his lease being nearly out at his present location, while on the northeast corner we notice there is a store to let "with special inducements to a florist," to say nothing of the Eaton Flower Shop, a block or so farther west.

The J. B. Deamud Co. reports that ferns are keeping well in cold storage and expresses the belief, that, in spite of former rumors to the contrary, that there will be no shortage this spring.

Bassett & Washburn are cutting a fine lot of Bride and Bridesmaid roses, of a grade they exhibited last year at the rose show.

Schnell & Poppe, of West Madison street, have dissolved partnership by mutual consent, C. A. Schnell continuing the business.

Anton Then and a party of enthusiasts were noticed taking in the sights at Poehlmann's plant at Morton Grove last week.

The Kennicott Bros. Co. is receiving Klehm's line of novelty tulips.

Wietor Bros. are propagating heavily both roses and carnations.

The supply of Boston ferns and small ferns is very short.

John Zech, of Zech & Mann, has become a grandfather.

Illinois State Florists' Association.

FOURTH ANNUAL CONVENTION.

The fourth annual convention of the Illinois State Florists' Association will be held at Springfield in Arion hall, Fourth and Jefferson streets, February 16-17. The programme will be as follows:

TUESDAY AFTERNOON SESSION.

Introductory Remarks, by Hon. John T. Hay, Springfield.

Address of Welcome, by Roy R. Reece, mayor of Springfield.

Response, by Geo. Asmus, president Chicago Florists' Club.

President's Address, Albert T. Hey.

Secretary's Report, J. F. Ammann, Edwardsville.

Treasurer's Report, by F. L. Washburn, Bloomington.

Report of Secretary of Advisory Committee, by W. N. Rudd, Chicago.

Address "Our Floricultural Interests Can Be Advanced and Why it Should be Done at State Expense," by E. Davenport of the State University.

WEDNESDAY MORNING.

Address "School Gardens," by Prof. J. H. Collins, superintendent of Springfield public schools.

Address "Our Experiment Station," by Prof. H. B. Dorner.

Address, "A Few Carnations I Have Seen," by W. N. Rudd.

Unfinished business—New business—Question box.

Election of officers.

On Tuesday evening members of the association will be the guests of the Springfield Florists' Club at a banquet to be given at the St. Nicholas hotel at 8 p. m. The local club is making very great preparations for this event and straining every nerve to make it the best of the meetings yet held. Exhibits from cut flower growers and florists' supply houses will undoubtedly be a prominent feature, and those who have not yet done so should make immediate application to Secretary J. F. Ammann, Edwardsville, Ill.

Louisville.

TRADE FAIR.

Business conditions the past week were fair, everything considered. Roses are of good quality and in fair supply, the demand being good. Carnations of good quality sell very satisfactorily and are in almost adequate supply. Violets, lily of the valley, mignonette, etc., are in good supply and find some demand. Freesias can be had in good quantities of good quality and find a satisfactory demand. Narcissi and Roman hyacinths can be had in fair quantities of good quality and find a fair demand. There are quite a number of tulips on the market and they find a good demand. Other bulbous stock can be had in fair quantities and finds a satisfactory demand. Green goods are a little scarce, with the exception of smilax, which is plentiful. Rhododendrons, azaleas and other flowering plants are on the market and find a satisfactory demand.

FLORISTS CLUB MEETING.

The regular monthly meeting of the Kentucky Society of Florists was held at Fred L. Schulz's store with one of the best attendances in the history of the society. This was probably due to the scheduled rose and carnation exhibition, which was a great disappointment, there being but one exhibit from a distance. This was Carnation Lucille, which created a very favorable impression. The bloom was very large, well formed, had a good stem, was nicely colored, and kept well. We are taking it for granted that we did not have more owing to the Indianapolis meeting being so close to our's. However, March will see another meeting and we will be greatly pleased to have some exhibits at that meeting.

Reynolds & Struck exhibited a freak calla, there being two blooms on one stem, one of them partly green. They also exhibited some very good blooms of White Enchantress. Robt. Miller exhibited a very fine seedling cyclamen. He also gave a little talk on how the seeds are procured, which was very interesting. Markmeyer, Jr., of Markmeyer & Son, the pottery people, was present, and, at the request of the society, explained that pots could be bought locally as cheap as anywhere, contrary to the report originating locally that we could buy them cheaper about 1,000 miles away. Mr. Markmeyer is a member of our society and we felt we owed him the privilege of defending himself, especially as the report originated from a non-member. Our society was organized to promote the industry and we would like to have a few more discussions, as everyone will receive a square deal.

Mrs. E. Lang, formerly with Jacob Schultz, F. Walker & Co., and Miss Miller, is now with Henry Fuchs.

F. L. S.

St. Louis.

STOCK PLENTIFUL.

The weather the past week was warm and springlike and flowers arrived in large quantities in the commission houses. Even roses, which have been scarce, have become plentiful. Violets have been very plentiful. Bright weather has increased the supply. The down-town stores are now in their glory with cheap signs, but they no longer have the monopoly as these fakir signs adorn the windows as far west as Thirty-ninth street. Jonquils and daffodils are more plentiful, in fact, everything fortells a glut as the crops seem to be on everywhere.

NOTES.

Geo. Angermueller is now receiving a fine lot of bulbous stock and roses and a large quantity of fancy carnations. Al. Guny, of this place, visited De Soto, and while there inspected the greenhouses of G. M. Thost and Hibbert Floral Co. He found both of these establishments in a very flourishing condition.

Paul Scheider, who recently had a fire, was again in trouble. During the heavy storm last week, his boiler burst and a house of fine Boston ferns were entirely frozen. Paul will get a new boiler and will build two houses instead of one. He is determined to rise again notwithstanding his hard luck.

The Horticultural Society will hold its third annual spring exhibition at the

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..
51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75

	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	400
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00

ROSES, Our Selection, $5.00 per 100

Carnations,	Per 100
Fancy	$ 3 00
Good	$ 1 50 to 2 00

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Grand avenue masonic temple, Grand and Finney, March 24-26. There will be music and Otto G. Koenig, secretary, promises a splendid show.

The Ellison Floral Co. will have a beautiful annex to the store. The greenhouse, which is nearing completion, will be stocked with the finest foliage and flowering plants the market can afford.

Schaeffer Floral Co., 111 North Sixth street, with Julius Schaeffer, manager, will open up February 8. They will have a fine store; fixtures all white. Julius was formerly with Grimm & Gorley.

Will Osseck has come down to the store but will have to use crutches for some time. Will Smith is glad to see him as the work was heavy for one man.

J. W. Dunford reports from the recent blizzard he suffered severe losses. his lilies and azaleas being entirely froze out.

Alex Siegel furnished several thousand carnations at the opening of Penney & Gentiles' dry goods emporium.

Chas. Schwake of New York was with us last week and disposed of plenty of bulbs and nursery stock.

The Gallagher Flower Shop has closed up as it proved to be no longer a profitable venture.

Young & Sons' window is well filled with primroses, tulips and other bulbous stock. W. F.

KEARNEY, NEB.—Fire was discovered by railroad men in the greenhouses of Green & Wiley on Railroad street and Second avenue, January 29. The blaze originated in the back of the house which contained the heating plant and it is not known just what the cause of the fire was. The department was called but the blaze had a big start in the dry woodwork and the large shed and three of the five greenhouses were badly burned and a great deal of the glass broken. The two houses on the west were not injured. On account of the severity of the weather a large number of plants were destroyed although not damaged by fire or water. H. C. Green and wife have the sympathy of the community in their loss as they have had exceedingly bad luck during the past few years.

Violets

For Valentine's Day

Also fine Roses Carnations, etc.
Give us your order.

Buffalo Cut Flower Co.,

495 WASHINGTON ST., BUFFALO, N. Y.

Long Distance Phones:
Bell Seneca 3762. Frontier 3607

Wholesale Flower Markets

ST. LOUIS, Feb. 10.

Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 2 50
" " short stems	50@ 1 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	5 00@10 00
" Ivory	4 00@ 8 00
" Killarney	6 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	5 00@ 8 00
" Richmond	5 00@ 8 00
" Alice Roosevelt	6 00@10 00
Carnations, common	1 00
" fancy	1 50@ 2 00
Freesia	1 50@ 2 00
Hyacinths Romans	1 50@ 2 00
Lily of the Valley	3 00
Narcissus, Paper White	2 00
Violets	25@ 35
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $1 75	
Smilax	12 50

CINCINNATI, Feb. 10.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Hyacinths, Roman	2 00@ 3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	3 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Feb. 10.

Roses, Beauty, special	10 00
" " fancy	6 00
" " shorter	2 00@ 4 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@15 00
Carnations	2 00@ 4 00
Callas	8 00@10 00
Daffodils	3 00@ 4 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	3 00@ 5 00
Narcissus	2 00@ 3 00
Tulips	3 00@ 4 00
Violets	75@ 1 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	1 50
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00
Smilax, Wild, per case	3 00@ 5 50

MILWAUKEE, Feb. 10.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	2 00@ 4 00
Hyacinths, Roman	2 00
Lilium Giganteum	10 00@12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	2 00@ 3 00
Sweet Peas	50@ 75
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	25 35
" Sprengeri, " "	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz.	1 50

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Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Who esale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

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Wholesale Commission Florists.
CONSIGNMENTS SOLICITED.
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
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Wholesale Florists and Supplies,
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CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

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1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

FLORENCE, MASS.—F. D. Keyes will open a retail store in the Parsons block.

New York.

STOCK SHORT AND PRICES HIGH.

A man who can see the humorous side of the cut flower business would have been greatly interested during the past week. The retailers, who have been buying stock practically at their own figures for the past year, were suddenly brought to a realization of the fact that good stock was very scarce. Consequence, agony and mournful howls. Early in the week special American Beauty roses went up to $1 each, but, as a leading wholesaler put it; "they might as well be $4 for there are none coming in." It is two years since there has been such a scarcity of good stock. During all that time we have felt it a duty to exploit the sad condition of growers and wholesalers. At present, the retailers are calling for sympathy. They say that they can't get any higher price for flowers than formerly; that business is dull and, to cap the climax, they claim that the wholesalers, or some of them, continue to do a retail business, all of which will be threshed out at the coming meetings of the various organizations supposed to exist for the elevation of horticulture. There has been a marked advance in the prices of all roses, carnations and bulbous stocks. It seems a strange turn of events, that orchids are about the only staple stock of importance, on which the price has not, to any great extent, been raised. There is little change in violets, but, as we pointed out last week, violets are not now among the exclusive stocks, for the reason that they are practically in the hands of the street men.

The weather during the latter part of the week was much warmer and there was a perceptible increase in some stocks. Roses continued scarce but there was a larger supply of carnations and bulbous stocks than there had been earlier in the week. Tulips, yellow narcissus N. poeticus and freesias are now arriving in fair quantities as it seems that with the possible exception of roses, the market will be well supplied by St. Valentine's day.

February 8.—The weather is fair and mild, conditions that promise a great increase in the supply of stocks by the middle of the week. Already, there is a perceptible increase in the supply of minor stocks, with a tendency toward lower prices. The rose supply is yet short and prices are firm. Violets have advanced a few points.

NOTES.

On the night of February 6 a fire at the range of Louis Dupuy, Whitestone, L. I., destroyed the potting shed and did minor damage to the greenhouses. Fortunately the fine Easter stock of roses and other plants was uninjured, being in another range. The fire was supposed to have originated from a defective electric light wire. The loss is partly covered by insurance.

W. W. Burnham is now with Abrahms & Strauss, of Brooklyn, as general manager, receiving, it is said, a liberal advance in salary over his former position at Bloomingdales. He was presented, February 6, at his home with a very handsome sterling silver tea service by a number of the concerns with whom he did business while at Bloomingdale Bros.

F. W. Smythe of Wadley & Smythe sailed last week for Europe to be absent about six weeks. On the eve of his departure he gave a dinner to his numerous employes. The good wishes of his staff and many other warm friends will follow him in his jojurneying. In the meantime, manager John Armstrong of the store is, as usual, a very busy man.

Kessler Bros. have now got their store at 50 West Twenty-eighth street, well fitted up for business. The senior member of this firm was for a number of years with John J. Foley and for the past six years with Miss Carroll Macy, both well known retailers. They will make a specialty of plants.

M. Durand, an enterprising young man who has had long experience in the florist business, has recently opened a retail store at 1326 Lexington avenue. He is well prepared to accommodate his customers and will doubtless make a success of his venture.

Very noteworthy among the offerings in roses during the past week, were extra finely flowered and long stemmed Richmonds, handled by J. A. Millang of the New York Cut Flower Co. and grown by Adolph Farenwald, Roslyn, Pa.

Chas. Millang requests us to state that the report published in an alleged trade paper, that he will open a "plant market," is erroneous.

Henshaw & Fenrich, among other good offerings, are now handling an exceptionally fine line of pink tulips.

Visitor: A. N. Pierson, Cromwell, Conn.

New York Florists' Club.

MONTHLY MEETING.

The regular monthly meeting of the Florists' Club was held in the Grand Opera House building on the night of February 8, President Hallock in the chair. It seems like an indorsement of the newly elected officers of the club that, "standing room only" prevailed. In addition to the great attendance of club members, the following notable visitors were present: Albert Roper, Tewksbury, Mass.; Joseph Heacock, Wyncote, Pa.; Adolph Farenwald, Roslyn, Pa.; E. A. Stroud, Stafford, Pa.

It was carnation night, and the title was well sustained by the variety and excellence of the exhibits. For their untiring efforts to make the meeting and exhibition a success, due credit must be given to Secretaries John Young and Harry O. May. C. W. Scott spoke in the interest of a bowling team. He asked the chair to appoint a committee on bowling, his request being complied with by the following appointments: C. W. Scott, J. A. Manda, J. A. Shaw, Joseph S. Fenrich and John Donaldson. Patrick O'Mara spoke on the question of bowling. He said, in substance, that if the bowlers in the club desired to go ahead and make a record they should organize and do so, without falling back on the club for financial support.

H. L. Jones was elected a member of the club. He was called to the platform and made a brief address, pledging himself to work for the welfare of the organization. Morris J. Jacobs was nominated for membership. Henry Reynolds tendered his resignation as a member of the club. Announcement was made of the death of W. C. Kriek of 1164 Green avenue, Brooklyn, N. Y. Mr. Kriek was one of the oldest members of the club. The members of the dinner committee made an urgent appeal to the members of the club to come to the support in making the annual dinner, at Shapley's February 27, a grand success. S. S. Butterfield, who attended the carnation convention and exhibition at Indianapolis, made a comprehensive address, covering his experience. Among other good things he said: "When the staging of the flowers was finished, the hall presented one of the most beautiful pictures it was ever my good fortune to see." He said that in his opinion there was never before, gathered together under one roof, such an aggregation of carnations, "in fact," said he, "I do not think that anywhere in the world has there ever been such a collection of high grade flowers shown as were seen at Indianapolis." He told several amusing anecdotes of the trip and his stay in Indianapolis.

F. R. Pierson of Tarrytown, also spoke on the carnation convention, which he attended. He gave high praise, not only to the exhibits, but to those who had the arrangements for the exhibition in charge. Brief but interesting remarks were made by Joseph Heacock, Albert Roper, Adolph Farenwald, E. A. Stroud and various members of the club.

THE EXHIBITS.

Seldom have the members of the club been treated to such a fine display of flowering stock. Though carnations predominated there was enough of other stocks to lend variety. The following were noted: Carnations, Alma Ward by C. W. Ward, Queens, N. Y.; Juanita by Fillow Flower Co., Westport, Conn.; Bay State by Albert Roper, Tewksbury Center, Mass.; Mrs. Pfeuffer (variegated) by O. V. Zangen, W. Hoboken, N. J.; Dorothy Gordon by Jos. Heacock, Wyncote, Pa.; White Seedling by A. Wynne, Stamford, Conn.; Pink Seedling by R. P. Jeffry & Son, Bellmore, N. Y.; Lucille by A. F. Longren, Des Plaines, Ill.; Gov. Deneen (maroon) and Sangamo (light pink) by A. C. Brown, Springfield, Ill.; Enchantress, Harry Turner, Port Washington, N. Y.; Beacon and Afterglow, Pittsburg Rose and Carnation Co., Pittsburg, Pa.; Pink Pearl, W. A. Manda, S. Orange, N. J.; Begonia Sp. E. India, W. A. Manda; new variety of nephrolepsis by George Gitras, W. Hoboken, N. J.; carnations, Winsor (light pink) and Lady Bountiful by E. A. Stroud, Stafford, Pa.; Mrs. T. W. Lawson, Val. Hamman, Summit, N. J.; Seedling, Enchantress Harlowarden, S. J. Trepess, Glen Cove, N. Y.; Neptune, Phil Thompson, W. Hartford, Conn.; Red Seedling, C. T. Guenther, Hamburg, Pa.; Rose, My Maryland, S. J. Reuter & Son, Westerly, R. I.; Improved Sprinkler, O. V. Zangen, West Hoboken, N. J. In the competition for the prizes of books offered by Alfred H. Langjahr the awards were as follows: To Alma Ward, first; Enchantress, by Harry Turner, second; Mrs. Lawson, by V. Hamman, third. The March meeting of the club will be rose night. Chairman Nugent of the house committee was on hand with several roast fowls, also liquids.

Detroit.

The Florists' Club will hold a trade exhibition of carnations on Monday evening, February 15, and all disseminators of novelties in carnations, roses or other stock are invited to send samples of the same for exhibition. The local trade will be well represented and many visitors are expected from adjacent districts. All shipments should be made in time to reach here on Monday, and should be addressed to the Michigan Cut Flower Exchange, 38 Broadway.

J. F. SULLIVAN, Sec'y.

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Wholesale Plantsmen and Florists.
Phone 2336 Madison Shipments Everywhere.
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Wholesale Commission Florist

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PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg. Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Feb. 10.

	Per 100
Roses, Beauty, special	60 00@100 00
" " fancy	40 00@50 00
" " extra	30 00@35 00
" " No 1	15 00@20 00
" " No. 2	5 00@ 8 00
" " No. 3	2 00
" Bride, Bridesmaid, extra and special	8 00@12 00
No. 1	5 00@ 6 00
No. 2	2 00
" Killarney, special	12 00@25 00
extra	10 00
" Richmond	2 00@20 00
Carnations fancy and special	4 00@ 6 00
" common	1 00@ 1 50
Callas, per doz.	75@ 1 00
Cattleyas	35 00@60 00
Freesias	50@ 2 00
Gardenias, per doz.	1 00@ 4 00
Hyacinths	50@ 2 00
Lilac, Cut, per bunch	75@ 1 25
Lilium Longiflorum	8 00@12 00
Lily of the Valley	1 50@ 2 50
Mignonette, per doz.	50@ 75
Narcissus (Paper White)	2 00@ 2 50
" (Yellow)	2 00@ 4 00
Sweet Peas, per doz bunches	1 00@ 2 00
Tulips	1 00@ 3 50
Violets	35@ 75
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

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John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Desirable Wall Space to Rent for Advertising.

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STOCK STILL SCARCE.

The scarcity of stock is still the feature of the market; anything worth having in almost all lines had to be almost fought for, the past week. Exceptions may be noted in bulbous flowers and violets of which there seems to be sufficient for the demand. The rose situation is singular for with all the added area of glass of the past three years there is, and has been for the past two or three weeks, a great scarcity of all varieties. Growers make the most meagre shipments amounting to only 20 or 25 per cent of their normal consignments. American Beauty, and in fact, all special grades of other varieties are almost all sold before they reach the market. This situation has caused an advance in the prices. Anything salable in the teas brings $10 per 100 and prices range from this to $20-$25. Carnations have also been in demand far above the supply. On last Saturday there was not a bunch of white to be had in any commission house in the city, scarcely any of any other color. Prices were boosted, $6 being asked for the best on Monday last. If there is not some relief before Saturday of this week there will be some tall hustling for stock to meet the Valentine's day demand. Violets are more plentiful and do much to relieve the situation. Cattleyas are still in good supply, but they have become so popular that they move out in a manner quite gratifying to the dealers, 50 cents straight is the price. Freesia, lily of the valley, tulips and daffodils are seen in quantities and are good sellers as are also sweet peas which, while a little off for a week, are now more in evidence. The scarcity of flowers seems to be general in the section of country that depends on this market for supplies, and commission men have a great time in filling out-of-town orders satisfactorily. Growers say now that they think the worst is over and as the days lengthen the cuts will be much heavier. The supply of flowering plants is quite up to the standard and much choice stock is seen. Harris is sending in fine azaleas, rhododendrons, hyacinths, tulips and daffodils and some novelties such as flowering apples and Ghent azaleas. Becker also has fine azaleas.

NOTES.

The H. A. Dreer Beneficial Association for the employes of the nursery department was organized last week. The following officers were elected: J. J. Flynn, president; Arthur Boyle, vice-president; H. Betz, secretary; Atkinson Lloyd, treasurer. As an inducement to join, the firm paid the entrance fee of $1 for those who would become charter members; 87 men embraced this opportunity to get together for their protection. Benefits are $5 per week for sickness and on the death of a member his heirs are paid $50. The dues are 25 cents per week. George A. Strohlein, of the Dreer Co. arrived on the steamer Patricia from a European tour in search of novelties. He brings back some good things which will be offered in the near future.

W. K. Harris has purchased the stock of the new fern, a sport of Boston raised by the Wm. Graham Co. There have been so many variations of this old favorite that new ones are looked at askance, but this is quite different, and when such a good judge as Wm. K. Harris thinks it good enough to add it to his collection it must have merit. Probably as good a description of it that will convey to those who have seen the new tasseled Scottii would be to call it a tasseled Boston, the pinnæ being divided like the new Scottii. The fronds are flat and graceful and do not bunch up as in N. Whitmani and N. todeaoides.

Leo Niessen thinks one of the functions of the florists' clubs is that of posting the general public on all the good things in flowers and by the aid of strong committees sending out educational matter to the public press. In this way, he thinks much good and useful information could be disseminated that would help the amateur and redound to the good of the business. The Leo Niessen Co. is making a hit with Acacia pubescens; this is one of the choice things of the season and is in great demand.

Wm. McKissick is making a specialty of tulips and other spring flowering bulbs. He reports good advance orders for Valentine's day.

There are a number of bidders for the Wm. Graham store and business in Germantown, but as yet, it is still in the market.

Colflesh is strong on Primula obconica as is also Zimmer, while Meckey has his usual fine assortment of daisies.

K.

Boston.

STOCK SHORT.

We have had two weeks of steady business. The market is in no position to deliver any quantity of the desired varieties of stock, but the general scarcity is felt only slightly. With normal business conditions to meet, the situation would be more serious. Prices have held well and stock has been coming in better. American Beauty rose is selling well at $6-$9 per dozen. Chatenay has not appeared in its usual form this season and is not dependable. Bridesmaid of ordinary quality is coming in plentiful but there is nothing savoring of superior value. Bride is laboring under difficulties and is considered only as a working rose. The supply of carnations has dropped off. Violets are abundant and the prevailing price is $6 per 1,000. Bulb stock is plentiful and prices have dropped owing to the great volume being marketed. Spring flowers, of which there is a varied collection of many types, are proving most popular just now in boxes of assorted selections. Hardy azaleas and acacias are lending much attraction to the plant collections which is well filled with the usual early spring favorites.

NOTES.

The exhibition conducted under the direction of the directors of the Boston Flower Market to be held February 27-28 at Horticultural Hall, will be one of the best ever held in this city. The committee in charge is busily engaged in perfecting the arrangements and has secured a list of exhibitors which assure opportunities for witnessing the best collection of high grade commercial flowers in the pink of perfection. The display is not confined to local growers alone, as the leading growers throughout the country have been invited, and a large number have already expressed a willingness to show their specialties. A substantial number of prizes has been guaranteed and being open to the public Saturday and Sunday, the exhibition is bound to be well attended.

John Fee, the peer of tulip growers, whose products have attained considerable renown, has opened his short season with a splendid collection of La Reine tulips. Murillo which is his leading specialty is expected next week and will be rapidly followed by a varied assortment of the leading varieties. The amount of stock annually marketed from this minute plant is remarkable.

Mann Bros., the Easter lily specialists, are cutting a strain of the best blooms seen in this city for many months. They are showing longiflorum in its true form allowing no comparison with the other substitute on sale. While at the height of the smaller bulb business, it is easily seen that the leading product of this immense establishment has not been neglected.

W. Sim is in his element again and is distributing a beautiful line of sweet peas which the market is eager to take advantage of.

Funeral work as may be seen at both the Galvin stores is the principal business of the day.

B.

Massachusetts Horticultural Society.

LECTURE ON EFFECT OF PLANT FUNGI.

Professor B. M. Duggar of Ithaca, N. Y., gave the John Lewis Russell lecture before the Massachusetts Horticultural Society January 30, 1909, his topic being "The Effects of Conditions of Growth in Certain Horticultural Plants upon Susceptibility to Fungous Diseases." There was a large attendance of members. Professor Duggar said that great advances have been made in our knowledge of fungi. He outlined the relation between the weather and parasitic diseases of plants, and said that 10 days of continued damp and rainy weather has often destroyed crops of fruit and vegetables, although some other crops thrive on such weather. Fungous diseases in many cases depend on the wounds caused by previous fungous attacks. In studying the action of fungi upon growing plants we are met with a remarkable diversity. Certain fungi, such as rusts, white mildew, etc., appear to be able to attack the healthiest parts of growing plants. These, however, do not kill the tissues of the growing plant, but themselves die as the tissues of the plant die. Contrasted with these are such fungi as leaf spots, fruit decay, etc., which do kill the tissues. It has been asserted by many that the vigor of the plant is a protection against infection from plant disease. Yet in some cases it is found that the vigorous plant is particularly susceptible to forms of parasitic fungi.

The black rot of cabbage is a parasitic fungus, but in order to spread there must be water connection between the outside and inside of the plant. This is established by the drops often seen on the edges of the leaf. Water is most important in its relation to the growth of parasitic fungi. To combat fungi care must be exercised in watering plants. The factor of light is also most important. Experience has shown that

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Asparagus Plumosus Nanus.
Extra large heavy Strings, 50 cents each.
W. H. Elliott, Brighton, Mass.

plants subject to powdery mildew are benefited by giving half shade. Alkali or acid in the soil also are conditions affecting fungi, as well as the growth of plants. The cabbage, for instance, thrives best in an alkaline soil. It is not easy to correct these conditions, but they must be considered. Where plants are living on one another there is parasitism, but any treatment of parasitism must take into account conditions of soil, water, temperature and light.

Washington.

STOCK PLENTIFUL.

This city has enjoyed a week of lovely spring weather, which has caused an over abundance of cut stock. Jonquils, tulips, and other bulbous stock are plentiful. There are also quantities of Lilium Harrisii, callas, sweet peas, violets, carnations, roses, etc. American Beauty rose is very scarce, and the wholesalers get whatever they ask for the flowers. All the retailers are preparing for Valentine's day, as it is expected that there will be a great demand for flowers, especially violets and lily of the valley.

FLORISTS' CLUB MEETING.

The regular monthly meeting of the Florists' Club was held at Eagle's hall, Sixth E street, Tuseday night. The main business of the meeting was the report of the secretary on the results of the flower show and nomination of officers. The secretary reported a satisfactory profit from the annual show, which news was greatly appreciated by the members. The officers were re-elected as follows:

F. H. Kramer, president.
John Robertson, vice-president.
Wm. Gude, treasurer.

Secretary Geo. C. Shaffer declined the honor of renomination, and Jas. Carberry, and Oscar Oehmeler were nominated to fill the office. Geo. H. Cooke was nominated as a director for two years and Jas. Carberry and Theo. Diedrich for three years.

President Kramer, speaking for the members, congratulated Wm. Gude on defeating his opponent for the presidency of the chamber of commerce, and remarked that with Mr. Gude president of the chamber of commerce, and J. H. Small, president of the board of trade, we ought to feel proud of the florists. Mr. Gude in return spoke feelingly, remarking that he was glad that he was a florist, and president of the chamber of commerce, and that he was always only too glad and willing to do something for the benefit and interest of the Florists' Club; he told in detail how it came about that he was nominated and elected to his office. It was suggested that the club hold its annual banquet, as usual, one month after the election of officers.

NOTES.

Chas. Maynadier of the Propagating Gardens has just been granted a patent on his new carnation mender. It is a single device which is stuck in the calyx of the split carnation, mending it so neatly that the artificial part cannot be detected. It is made of a thin piece of cardboard scalloped same as carnation calyx and dyed its exact color. He expects to put it on the market in a few weeks.

Geo. H. Cook was busy this week on eight centerpieces, of Theo. Diedrich's new sweet peas, which were to be used at a luncheon at Senator Dupont's. He also had a poinsettia centerpiece for the Alabi club.

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American Beauties
The finest in this Market.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

Wholesale Flower Markets

PHILADELPHIA, Feb. 10	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Lilac per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Feb. 10.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	4 00@12 00
" Chatenay	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	2 00@ 4 00
Cattleyas	75 00
Daffodils	3 00@ 4 00
Freesias	4 00
Lilium Longiflorum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Snapdragon	2 00@ 4 00
Sweet Peas	50
Violets, single	50
" double	1 00
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	8 00@12 00

BOSTON, Feb. 10.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lilyof the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

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Successor to Chas. W. Reimers'
329 FOURTH AVENUE.

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JACOB SCHULZ,
550 So. Fourth Avenue.

Z. D. Blackistone executed the decorations at the Japanese embassy. The table was of Richmond roses and lily of the valley. American Beauty roses were used in the parlor.

The Washington Florists Co. reports business good; it is offering a violet box, with a double heart and arrow, painted in red, on the cover of the box, for Valentine's day.

Gude Bros. had several luncheons and dinners this week.

Mayberry & Hoover are keeping busy with decorations and other social functions. G. S.

HILLSDALE, MICH.—E. J. Sheep Co., of Jackson, have purchased the greenhouses and heating plant on Bacon street formerly owned by S. J. Shanks. The buildings and equipment are being torn down and shipped to Jackson, where they will be incorporated with the company's already large plant. Since Mr. Shanks' death two years ago the greenhouses have not been used.

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The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

HENRY F. MICHELL is at Pinehurst, N. C.

VISITED NEW YORK.—A. J. Brown, Grand Rapids, Mich.

W. ATLEE BURPEE has gone to the Bahamas for a winter vacation.

BERMUDA reports good growing conditions for the lily crop up to January 28.

THE Agricultural Experiment Station of Tucson issues, in Bulletin 77, valuable information regarding cantaloupe growing.

THE Ebbert Seed Co., of Rocky Ford, Colo., calls attention to the fact that it is in no way connected with the Gobin-Ebbert Seed Co., recently sold.

GEORGE D. KARSNER, a farmer of Fayette county, Kentucky, has been appointed inspector of seeds for the state. His new position carries a good salary.

CHICAGO—The onion set market remains strong at about $3 for white; red and yellow, $2—Contract prices on the board of trade February 10 for grass seed were noted as follows: Prime timothy, $3.80, white clover, $15.—Visitors: Chas. Loechner, representing the Yokohama Nursery Co., New York.

THIRTY ACRES of onions planted for seed on Sherman Island, Calif., are reported washed out: there are other minor damages on low seed-growing lands in the Santa Clara district, some lettuce must be resown, and standing water on some onion fields may check their growth. Water and wind have also done damage at Hollister.

A SUIT is now on trial in the superior court in which the Robt. Buist Co. of Philadelphia sues the Goodwin Harries Co. at Chicago for a certain lot of Admiral peas sold at a reduced price under the term "old," but which later on were never delivered and the latter firm declined to pay for because of almost entire lack of vitality. The case will be concluded this week.

TOLEDO, O.—Clover seed shipments last week failed to keep pace with receipts by nearly 150 bags. The outflow from the local market has been comparatively heavy, despite this fact, but enormous stocks continue a drag on the situation from the bull standpoint. This week 3,610 bags were received, against 3,680 last week and 717 for the same week a year ago. For the week, shipments were 3,479, compared with 4,685 the previous week and 2,787 for the week a year ago. At this time last season stocks had dwindled down to almost nothing and shipments were heavy despite the record prices.

Grass Seeds.

ED. AMERICAN FLORIST:—

My attention has been called to an article that was published in a Chicago paper December 10, 1908, under the head of "Grass Seeds," quoting from a circular issued by Conrad Appel of Darmstadt, Germany, casting a reflection upon the American seed dealers and exporters. Those who are well posted in the business will pay no attention whatever to remarks of this kind coming from such sources, but there are others who might take this statement for a fact, inasmuch as it has been published by a reputable journal.

In my business experience—which has extended over quite a number of years—I have never yet found the time that it was not possible to secure a supply of true Poa pratensis or Kentucky bluegrass seed. I have also found that complaints, similar to the one made by Conrad Appel, are made based upon some transaction, which if thoroughly investigated, would put an entirely different color to the situation, and more than likely the shoe would be on the other foot. Quite frequently the price at which the goods are sold has more to do with the transaction than the quality. As a matter of fact, I will state that the party in question, or anyone either in the foreign or home trade, can secure from the American dealers as high a grade, not only of Kentucky bluegrass, but of all other seeds, as it is possible to secure in any of the markets of the world; but the proper way to secure these qualities is not to go at it like some of our foreign buyers and shop around and place the order at prices known to be lower than the American trade was paying for the highest grades.

As a rule it is not possible for the buyer of any commodity to secure the highest qualities at prices quoted for the lower grades. A little care on the part of the buyer is all that is necessary to be exercised and there will be no occasion for any blanket statement as this gentleman has used in his circular.

ALBERT MCCULLOUGH.

Cincinnati, O.

Vitality of Seeds.

Causes which Affect the Vitality and the Vital Energy of Seeds" was the title of the address given by W. Michaud at the meeting of the Canadian Seed Growers' Association at Ottawa, February 4-5. The speaker explained in a most interesting paper what was understood by these terms describing the germination and the factors to be considered, and saying that "to germinate under ideal conditions seeds must possess the inherent vital energy common to any life organism, the nature of which is still an open question to the scientific world," the ideal conditions for germination being "the presence of water, heat and oxygen in a certain proportion, which proportion is different for each seed." Describing the natural causes affecting the germination of seeds, Mr. Michaud noted the degree of maturity and the duration of the period of rest necessary for the different kinds, and the different individuals of each kind, going on to tell of the experiments at the Chicago University.

The question as to how long seeds keep their vitality was interestingly discussed, and the various conditions described. As a general rule, seeds lose their vitality with age, their development being much slower the older they get. The question of frost injury to the germination value of seeds was also discussed at length, and instances given of characteristics possessed by various seeds that had been exposed to frost. Seed storage and prevention of diseases in store and other important points in connection were also treated of in this excellent and interesting paper which we regret we cannot publish in full, owing to its length.

Pure Food Law Inoperative.

Washington, Jan. 24.—The referee board appointed to determine whether benzoate of soda used in food as a preservative is harmful and deleterious to human health has decided that it is not, and thus flatly joins issue with Dr. Harvey W. Wiley, chief of the bureau of chemistry of the Department of Agriculture, who holds that it is harmful and injurious, and who was responsible for the issuance of a series of restrictive regulations under the pure food act concerning the use of benzoate of soda by canners.

Texas Has Press Bureau Like Sec'y. Wilson

College Station, Tex., January 30.—Dr. O. M. Ball, botanist at the Agricultural and Mechanical College of Texas has learned that dealers in seeds are opposing the bill he has prepared for passage by the present legislature requiring purity in all seeds offered for sale. At his laboratory at College Station he has 1,000 samples of seeds which show the presence of foreign weed seeds and weed pests, that are damaging to any farm. His proposed law is in the interest of the farmer, and he says there is no reason seeds offered for sale should not be pure. The opposition to the bill comes mostly from outside the state. Some farmers, who have been benefited by what Dr. Ball has told them of weeds on their farms, have written to their legislators urging the passage of the bill. It is designed to protect all the farms in Texas from pests and thistles.—Galveston News, January 31.

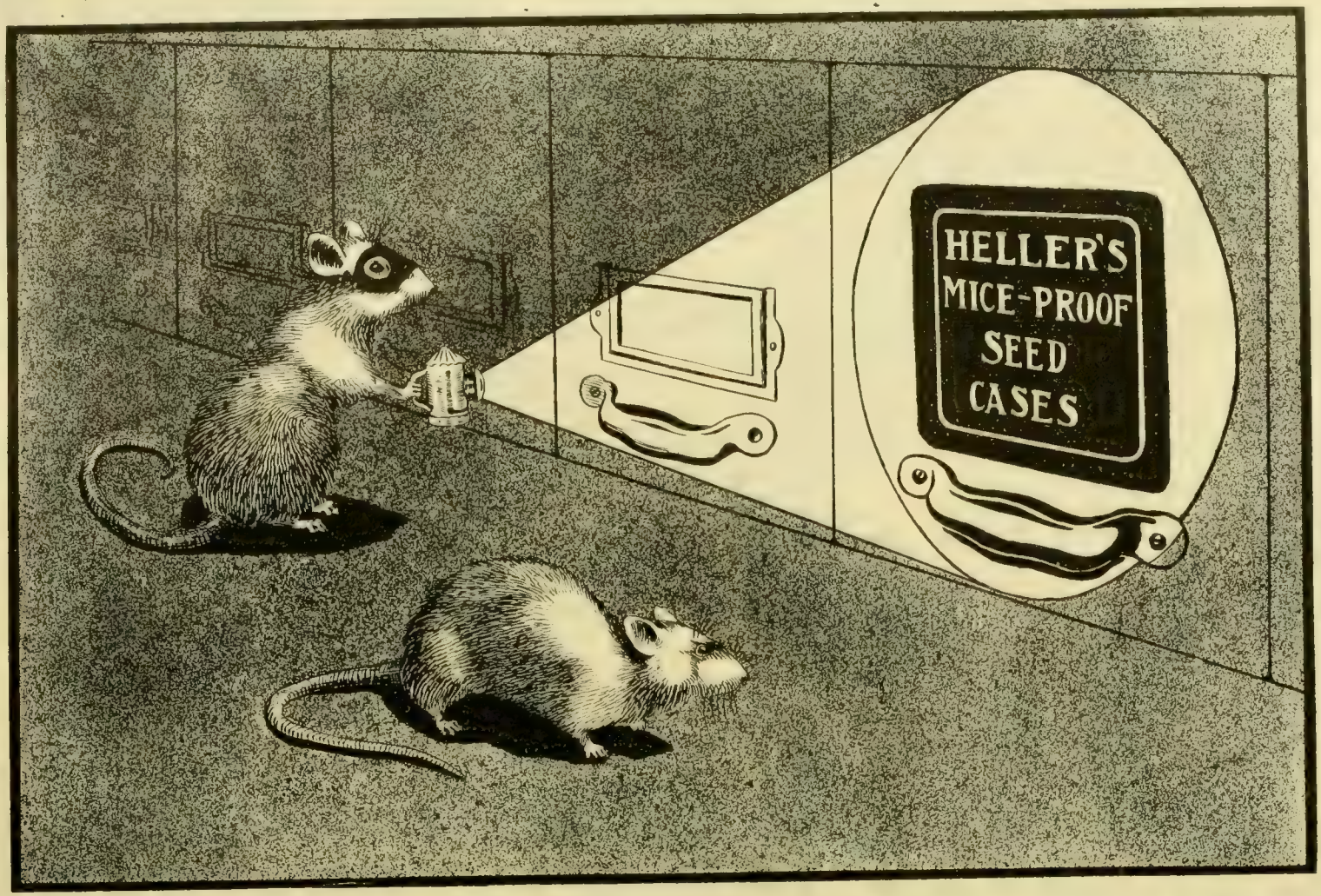
Catalogues Received.

Northrup, King & Co., Minneapolis, Minn., seeds; Vaughan's Seed Store, Chicago and New York, seeds and plants; Portland Seed Co., Portland, Ore., seeds, bulbs, etc.; The Henry Philipps Seed & Implement Co., Toledo, O., seeds, bulbs, plants, etc.; J. Bolgiano & Son, Baltimore, Md., seeds, implements, etc.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.



30 Different sizes carried in stock for immediate shipment

SEND FOR PRICES.

HELLER & CO.,

Montpelier, Ohio.

Vaughan's Seeds

ALYSSUM

Vaughan's Little Gem, extra fine strain........lb., $3.50: Trade pkt., 10c: oz., 35c

ASPARAGUS PLUMOSUS NANUS

We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds

BEGONIAS Trade pkt.

Berna. Flowers are of very bright, carmine red: they are produced all summer and in great abundance..........$ .15
Salmon Queen, new.......... .25
Semperflorens Red Lubecca. Fine for bedding.......... .25

LOBELIA

Bedding Queen. This is undoubtedly the best of the dwarf Lobelias The best Lobelia for carpet beds, borders and pots ....Trade pkt., 15c: ⅛ oz., 25c: oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage, true	$ .10	$ .55
Hambrugin, new, for hanging baskets	.25	
MAURANDYA, mixed ..¼ oz., 25c	.10	1.00

"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS

This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts. Trade pkt. (1000 seeds), 50c; 3 pkts. for $1.25

	Trade pkt.	Oz.
Howard's Star	$ .10	$ .80
Snowball..........⅛ oz., 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich........¼-oz., $1.25	.25	
SMILAX, new crop....... lb., $3 00	.10	.25
STOCKS, "Prince Bismarck," new giant double white	.25	
THUNBERGIA, mixed	.10	.40

VERBENAS

	Trade pkt.	Oz.
Defiance, brilliant scarlet true	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice	.15	1.00
Rose and Carmine shades	.25	2.00
Purple	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa	.05	.20
Lemon (Citriodora)	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c; ¼ oz., 50c; oz., $2.00; 2 ozs., $3.50.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. **NEW YORK:** 14 Barclay St.

Greenhouses, Trial Grounds and Nurseries Western Springs, Ill.

Jay J. Utter, BRAVO. MICH.,

Contract grower of Beans, Peas, Sweet Corn, Squash, Cucumber, Watermelon and Muskmelon.

Imports.

During the week ending February 6 imports were received at New York as follows:

Vaughan's Seed Store, eight cases bulbs.

C. C. Abel & Co., 64 cases trees.

H. F. Darrow, 70 pkgs. plants; 34 pkgs., one bbl. seed.

McHutchison & Co., two cases plants; 29 bbls. seed.

A. T. Boddington, one case bulbs.

Schulz & Ruckgaber, 500 bags sunflower seed.

H. Nungesser & Co., 50 bbls. grass seed.

Brown Bros. & Co., 250 bags seed.

To others: 44 cases, 19 pkgs. plants, one case bulbs, 297 bags, one pkg. seed, 165 bags of clover seed, 37 bags grass seed.

The Crego Aster

"The Best in the Market"

After having demonstrated, by actual competition, in the open market, that it has fully earned its title as "The Best in the Market," the CREGO ASTER is again offered to the trade, with the positive assurance that it has "made good."

A SATISFIED GROWER

Near St. Paul, Minn., writes under date of September 15th:

"The germination of the seed purchased from you last spring was the best I ever saw, apparently every seed producing a plant. I gave the best possible cultivation and saw the results about the first of September, when they commenced to bloom. They were perfectly magnificent. At our annual flower show I entered the CREGO ASTER in seven different classes, and took first prize in every instance. My asters were in a class by themselves, and a local florist, who was one of the judges, said they were the finest he had ever seen, and he offered to buy my crop at from $5.00 to $7.00 per 100."

This Aster (distributed last year for the first time) has been given a fair trial in nearly every part of the United States and Canada, and has proved itself to be exactly what every florist needs: an aster which finds instant favor with his customers, for which they are willing to pay the highest price, and which gives him the highest return for his time and labor. It costs the grower no more to produce flowers of that grade than to grow the common run of asters which sell for but little more than enough to pay express charges. I am offering the CREGO ASTER in two colors only, viz.: shell pink and pure white, my stock of rose pink being sold out.

If you are interested in getting the highest possible returns from your aster crop next summer, I shall be pleased to hear from you at an early date. Late orders will probably find the supply of seed exhausted.

The price of CREGO ASTER seed is the same as last year, viz: Trade packet, $1.00; half ounce, $4.50; ounce, $8.00; cash with order.

Seedsmen, write for liberal discounts.

G. S. CREGO, 693 E. 10th St., **Portland, Ore.**

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

S. D. Woodruff & Sons

SEED GROWERS AND DEALERS.
Garden, Field and Flower Seeds.

82 and 84 Dey St., NEW YORK.

Seed Farms: Orange, Conn. **OUR SPECIALTIES: Onion, Beet,** Tomato, Cabbage, Cucumber, Sweet Corn, **Seed Potatoes** and **Onion Sets.**
Catalogue free. Correspondence solicited.

S. M. Isbell & Co.

Jackson, Mich.

Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

The Everett B. Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of Double Branching Stocks is exceptionally true. About 90 per cent. Double Flowers
In colors.....⅛-oz. 60c; oz. $4.00
Pure white.....⅛-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Landreths' Seeds
are the Seeds which Succeed
125 Years before the American Public.
Do you need some Black Beauty EGG PLANT
LANDRETH SEED CO., Bristol, Pa.

Seed Beans
F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

BURPEE'S SEEDS
PHILADELPHIA
Wholesale Price List for Florists and Market Gardeners.

W. H. Lilly Co.
SEATTLE, WASH.
Growers of
Puget Sound Cabbage Seed.
For Wholesale Trade Only.

J. E. Hoopes & Co.
Muscatine, Iowa.
Growers of Muscatine Island Vegetables, Sweet Potatoes, Seeds, Plants, Melons, etc.
Specialties: Peppers, Tomatoes, Asparagus
Seeds and Asparagus Roots Grown on Contract.
Seedsmen cordially invited to inspect our growing crops or stocks at any time.
CORRESPONDENCE SOLICITED

Routzahn Seed Co. Arroyo Grande, Calif.
Wholesale Growers of Full List Flower and Garden Seeds.
SWEET PEA AND NASTURTIUM SPECIALISTS.
Novelties for 1909 Contract Growing now being booked.

NEW SPENCERS.
Mrs. Walt. Wright Spencer
Senator Spencer
Black Knight Spencer
Gaiety Spencer
Prince of Wales Spencer
Juanita Spencer
Blanch Ferry Spencer
Ruby Spencer

NEW NASTURTIUMS.
Dwarf Orange, variegated foliage
Tall Crœsus, variegated foliage
Tall Scarlet, variegated foliage
Tall Salmon variegated foliage
Dwarf Variegated Ivy Leaf Princess
Golden Rose, Gold Leaved
Lilliput Lady Cherry.

WRITE FOR PRICE LIST.

WHY DELAY ORDERING YOUR
FLOWER SEED
The best that money can buy is not too good for you
We have the best we could possibly procure.
Just try us on the following for immediate sowing:

	1 oz.	tr. pkt.
Salvia Bonfire (Clara Bedman)	$2.25	$ .25
" Splendens (Scarlet Sage)	1.00	.15
" Zurich (new)..1-16 oz., $1.25		.50
Verbenas, S. & L., finest mixed	2.00	.25
Lobelia Crystal Pal., compacta, true		.25
" Speciosa, trailing		.10
Begonia Vernon	1-16 oz., 50c	.25
" Erfordii		.25
" Semperflorens Magnifica (very fine for pots) .1-32 oz., $1.50		.50

	Tr. pkt.
Stocks, Princess Alice (Cut and come again)	⅛ oz., 50c .25
Primula Obconica Gigantea, 4 colors, separate or mixed	.50
Asparagus Plum. Nanus, fresh greenhouse-grown	$4.00 per 100
Asparagus Sprengeri, fresh greenhouse-grown	.75 per 100

Ask us to mail you our latest Catalog of Seeds, Bulbs and Plants.
SKIDELSKY & IRWIN CO., 144 N. 7th St., Philadelphia, Pa.

Wildpret Bros. Port Orotava, Teneriffe (Canary Islands).
Largest Growers and Exporters of genuine
BERMUDA ONION SEEDS
Raised from purest strains obtained after many years' constant work.
We sell no old or mixed seeds. Our stock is true to name and quality. Those customers wishing to have a full delivery in the coming season are requested to send their orders at an early date.
☞REMEMBER THAT WE EXECUTE ORDERS FROM THE TRADE ONLY.
We want to protect our friends by SELLING ONLY TO REGULAR SEEDSMEN, and we expect also to receive your kind protection.

FIELD SEED CORN We Grow for the Wholesale Trade.
We grow all the leading best varieties; planted from pure stock, carefully selected, hand picked; butt and tip ends taken off by hand; also milled, screened and graded; highest quality and grade.
Write for samples and prices, with list of your requirements, in car lots or less.
Robinson's Code. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

Trade Directory FLORISTS, SEEDSMEN, NURSERYMEN, Etc.
$3.00 Postpaid
AMERICAN FLORIST CO.
324 Dearborn St. CHICAGO.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

"THE coldest spell in 10 years, freezing all vegetables but cabbage, which will pull through," writes J. Thomas, Fitzgerald, Ga.

CONNELLSVILLE, PA.—Robt. Felty of this city, and W. W. Wright of Cadiz, O., a member of the Wright-Metzler Co. have associated themselves with a number of Tampa capitalists to develop an immense tract of gardening land fronting along the Bay of Tampa for four and one-half miles. There are 14,000 acres in the tract and a company capitalized at $350,000 has been formed to boom the colonization scheme.

Tomato Plants.

The spring crop of tomatoes under glass will need constant attention from now on. The plants must be under way by this time, and should never be checked or stunted in any way. We like to prick out the seedlings in flats; these flats should be shallow, say two inches deep. Give the plants two inches each way, and use a fairly rich soil and regulate the growth by water supply rather than give poor soil. Seedlings should be transplanted as soon as the character leaf appears. After they have covered the flats it is best to pot into 2½ or 3-inch pots; give plenty of room and rather a low temperature; 50° at night is all right. As soon as they are rooted through the pots they must be planted out or repotted. If beds are not ready repot into 4 or 5-inch pots.

Some growers plant among lettuce while quite small. The proper temperature for lettuce does not suit the tomatoes, nor the moisture, and often it would be better to shift into larger pots and keep them in the plant house until the lettuce is out of the way. It is surprising what sturdy 5-inch pot plants, nicely in bloom, can do when transferred to the beds April 1. Pot growing has another advantage; it induces early fruiting, and to some extent prevents plants running to vine too much. Until a good setting of fruit is obtained tomatoes should always be on the dry side; rather let them hunt for water than give an oversupply. A bluish tint on the foliage and stem shows the proper condition; a green or yellowish color denotes excessive moisture.

MARKETMAN.

Seasonable Notes.

At this time of the year, the main point is to plan carefully for the succession of crops. That is, where cucumbers and tomatoes follow lettuce, to waste neither time nor space or stunt the young plants waiting for a crop to move. In the case of cucumbers, the beginner should have patience and not start the plants too soon. Given a warm plant house, nice cucumber plants can be produced in five weeks. They should never vine in the pots. Better have to wait a few days for the plants to size up, than let the plants wait for the space. Lettuce will

Stokes' Bonny Best Early Tomato

Is a Wonder. It is MAKING GOOD wherever grown.

If you grow tomatoes for early market you should use it.
If you grow tomato plants as a side line (there's money in it), it will make you a reputation.
It is **very early.**
It is a fine bright scarlet.
It is just the right size and shape.
It is the finest all-around tomato ever introduced.
It holds its size clear to the end of the season better than any tomato I have ever seen.

Stokes' Bonny Best Early Tomato

IS A WINNER

Price, pkt. 10c; oz., 50c; ¼-lb., $1.75; lb., $6.00. Postpaid.

Stokes Seed Store.

219 Market St., PHILADELPHIA, PA.

L. A. BUDLONG CO.,

700 Acres of Garden.

CHICAGO.

ONION SETS.

FRESH MILL-TRACK SPAWN

$6.00 per 100 lbs.

Fresh Tobacco Stems, $1.50 per 300-lb. bale.

		Trade pkt.
Stocks,	Cut and Come Again, assorted colors	$ .25
"	Dwarf Bouquet, assorted colors	.25
"	Snowflake, white	.50
Petunia,	fringed, single, mixed	.50
"	fringed, double, mixed	1.00

W. C. BECKERT,

103 Federal St., N. S., PITTSBURG, PA.

VAUGHAN'S 1909 VEST POCKET CALENDAR FOR GARDENERS.

Full of useful suggestions and reminders for for every month in the year.

Every man about the place should have a copy in his pocket.

Price 25 cents, postpaid.

AMERICAN FLORIST CO.,

324 Dearborn Street, CHICAGO.

Always mention The American Florist when you order stock.

grow much faster from now on—four weeks in March are better than seven in the late fall.

Cucumbers may be started directly in small pots, or in flats. If in pots, use 2½-inch and sow several seeds in each. When up, thin to two, and when well rooted shift to 4-inch and cut away the weaker one. If in flats, transplant into 2½-inch pots as soon as well up; never wait, or they will suffer and may never be good thereafter. Select a warm, sunny place for the plants, where 60° is the minimum temperature. A smaller lettuce is preferred by many retailers; try some 6x6; often a higher price is obtained for such and time saved. Never sow radishes among lettuce as the radish is a robber of fertility and the apparent gain will develop into a loss a little later on. MARKETMAN.

Tomatoes for Forcing.

ED. AMERICAN FLORIST:—

What are the best tomatoes for forcing named in order of merit?

H. F. S.

There are at present two sections of tomatoes used by greenhouse men—the English and American. America being the home of tomatoes, it sounds rather odd to talk about English varieties; but when we consider that tomatoes cannot be grown outdoors in England (? ED.)—that large areas of glass are devoted to forcing tomatoes, that Englishmen resort to boxes and pots to produce their crops—we get some idea why there are English varieties.

These are simply bred for a special purpose and to fruit under difficulties. As a rule, these English tomatoes are preferable for winter forcing, and our American kinds for late spring work. A common fault of all English kinds is lack of size, otherwise they are very good.

At the head of English varieties we place Comet; next in order, Frogmore; third, Sutton's Best, which is probably the largest and meatiest; fourth, Stirling Castle. All these bear large clusters of fruit, which should be thinned for best results—that is, allow each cluster to mature four to six fruit.

In the American section I would recommend Early Michigan and Livingston's Hummer, which are almost alike; Henderson's Freedom; Chalk's Jewel. For a pink market, Globe is an acquisition. Under glass, all its outdoor faults are lost; it can be finished without a crack and is the finest table tomato we have; Beauty is used by some—its fault is lateness. MARKETMAN.

White Fly in Lettuce.

ED. AMERICAN FLORIST:—

My lettuce is badly attacked with white fly, introduced some time ago with plants. How can I get rid of it?

Iowa. L.

White fly has never attacked lettuce to my knowledge; if it does, as in "L.'s" case, there is only one remedy—fumigation with hydrocyanic acid gas. Tobacco smoke is useless and spraying impractical. Whenever one has to use a new insecticide it is safest to try it in mild doses and increase until the killing strength is found. I would advise "L." to thoroughly acquaint himself with the above fumigant. Then begin with one-half strength and note result. The white fly is delicate and easily killed. It will require a regular weekly fumigation for some five or six weeks to eradicate the pest as the eggs and larvæ are not reached by the gas, or better, not killed; and as fast as new flies appear they must be destroyed. Where lettuce is well grown I do not see how white fly could get much start as the crops are cut so quickly, that not much time is given for them to breed. They are more at home among tomatoes and cucumbers. MARKETMAN.

CANNAS Guaranteed True to Name.

Bronze Leaved Cannas

	doz.	100	1000
Black Beauty	$0 75	$ 5 00	$ 45 00
David Harum	50	3 00	27 50
Discolor	30	1 75	15 00
Egandale	50	3 00	27 50
Graf Walderseel	1 25	8 00	75 00
Iroquois Chief	1 50	10 00	100 00
King Humbert	1 25	8 00	75 00
Leonard Vaughan	50	3 00	27 50
Shenandoah	40	2 50	22 50

Variegated Flowers

	doz.	100	1000
Elizabeth Hoss	$0 60	$ 4 00	$ 35 00
Florence Vaughan	50	3 00	27 50
Queen Charlotte	40	2 50	22 50
Souv. de A. Crozy	60	4 00	35 00

Cream and Yellow Shades

	doz.	100	1000
Buttercup	$0 90	$ 6 00	$ 55 00
Coronet	60	4 00	37 50
Alsace	50	3 00	27 50

Orange Flowers

	doz.	100	1000
Sec. Chebanne	$0 50	$ 3 00	$ 27 50

Red Flowering Cannas, Green Foliage.

	doz.	100	1000
A. Bouvier	$0 50	$ 3 00	$ 27 50
Beaute Poitevine	50	3 00	27 50
Chas. Henderson	40	2 50	22 50
Chicago	40	2 50	22 50
Duke of Marlborough	40	2 50	22 50
Explorateur Campbell	50	3 00	27 50
Papa Nardy	50	3 00	27 50
Express	75	5 00	45 00

Orchid Flowers

	doz.	100	1000
Allemania	$0 35	$ 2 25	$ 20 00
Austria	50	3 00	27 50
Burbank	30	2 00	17 50
Frederick Benary	90	6 00	55 00
Italia	50	3 00	27 50
Kate Gray	40	2 50	22 50
Partenope	40	2 50	22 50
Pennsylvania	40	2 50	22 50

Pink Flowers.

	doz.	100	1000
L Patry	$0 35	$ 2 25	$ 20 00
Mlle. Berat	40	2 50	22 50

Send For Descriptive List.

MOSBAEK GREENHOUSE CO., Onarga, Ill.

MUSHROOMS
HOW TO GROW THEM
BY WM. FALCONER.
The Best American Book on the Subject.
170 Pages. 29 Illustrations.
Price $1.00.
AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's
Pure Culture Mushroom Spawn
Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address
Trade Mark. American Spawn Co., St.Paul,Minn

American Onions in Germany.

Consul-General Robert Skinner, of Hamburg, in stating that the duty upon onions imported into Germany from the United States is 95 cents per 220 pounds, while onions from many others countries are free, draws the following conclusions: This fact would render importation for German consumption difficult. There is, however, a considerable trade in onions for re-exportation, and in this business American onions would be in the same position as others. There are no available export and import statistics covering this article. Large German onions, known in the trade as "English sorted," are exported to a fairly large extent from Hamburg. These onions are now (December 5) worth from $2.14 to $2.26 per 110 pounds. Dutch onions are worth $1.42 in this market, and Russian onions $1.30 for 110 pounds. The possibility of selling American onions is merely a matter of price. (The names of importers of onions are filed with the bureau of manufacturers.)

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points February 6 were as follows: New York, mushrooms, 25 cents to 55 cents per pound; cucumbers, $1.50 to $2.50 per dozen; lettuce, 75 cents to $1.25 per dozen; tomatoes, 11 cents to 22 cents per pound; radishes, 75 cents per dozen bunches; asparagus, $6.50 per dozen bunches; rhubarb, $1 per dozen; grapes, Malaga, $6 to $8 per barrel. Kansas City, Mo., cucumbers, $1.50 per dozen. Cincinnati, cucumbers, $2 per dozen; mushrooms, 30 to 40 cents per pound. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $5 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 30 to 40 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.25 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents.

NEW CANNA
WAWA
A new shade of beautiful soft pink
splendid form
$1.50 each, $12.00 per dozen.
Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.
——Send for List:——
The Conard & Jones Co.
WEST GROVE PA.

Gladioli. Not the largest stock, but as good as any.
Iris Germanica, Madeira and Cinnamon Vines.
The argest and best stock in the country.
Lilies, Hyacinthus Candicans, Spotted Callas, Oxalis, Millas, Besseras, etc.
In fine bulbs.
Iris Kaempferi and other Hardy Plants.
Price List on application.
E. S. MILLER,
Wading River, Long Island, N. Y.

DAHLIAS.
Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity: delivery to be made this winter or early spring.
DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc. ATCO, N.J

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

LAKE VIEW in Lake county, southern Oregon is reported to be a good location for and in need of a nursery.

LOUISIANA, MO.—Stark Bros. Nurseries & Orchards Co. recently made a heavy shipment of stock to South Africa.

ATTICA, N. Y.—John Griffith, who died suddenly January 28 at his home on Main street at the age of 69, was a well known resident who for years had been engaged in the nursery business.

SIOUX CITY, IA.—The J. C. Rennison Co. of this city has been incorporated with capital stock $60,000. The officers are Lizzie A. Rennison, secretary, and Fannie L. Rennison, treasurer.

PAUL KRUGER, a well known fruit grower and horticulturist of the Yakima valley, Washington, says that in spite of reports to the contrary he is of the opinion that the fruit prospects are exceedingly good, the recent cold snap not having damaged even the early peach buds.

GRAND RAPIDS, MICH.—Former Superintendent of Parks Wenzel L. Cukerski has completed plans for the new Cadillac cemetery, which is to be a 20-acre addition to Maple Hill cemetery. The land was the gift of W. W. Mitchell and Frank J. Cobb. The drives and walks will be laid out by Mr. Cukerski in April.

THE report of the park commissioners of Davenport, Ia., is a well got up book containing the report and a short description of the number of beautiful parks under the management of Superintendent Emil Boehm. The highly glazed paper used brings out the excellent photographic illustrations to perfection, and these show some very beautiful and interesting parts of the parks.

THE annual report of the park department of Cincinnati, O., is a book of 67 pages containing Superintendent Rodgers' reports on the various parks, commons and the floricultural department. The cost of running each park is given, and a comparison of the parks in the city with those of other leading cities. An interesting list of plants and trees grown is included, and the report contains many fine illustrations from photographs of various points of interest and beauty, and a map of the entire park system.

BARABOO, WIS.—M. F. Foley, president of the Great Northern Nursery Co., recently returned from Chicago accompanied by detectives. They brought with them Fred Manual, alias Smith, who is charged by Mr. Foley with forgery. The defendant was captured at Hammond, Ind. He was engaged several months ago as a salesman for the company and last fall forged orders began to arrive, and soon aggregated about $800. Mr. Foley took action at once and for the past six weeks the detectives have been on the trail of the culprit.

H. S. BERLINGER, landscape architect for the Jewel Nursery Co., Lake City, Minn., has been in Baraboo, Wis., conferring with the Hon. Philip Check who was selected by the officers of the Baraboo Cemetery Association to receive plans and estimates for beautifying the city cemetery. Among the improvements to be made is the platting of the addition to the cemetery located on the south side of the grounds. The grand entrance is to be at the head of Oak street. Superfluous trees are to be removed and ornamental trees and other shrubbery planted.

Brown Tail Moth

We print hereunder a clipping from a newspaper on the reintroduction of this pest, together with remarks on the subject by Professor Cowell:

Professor John B. Smith, New Jersey state entomologist, has sent out warnings that the French "brown-tail moth," which shoots spines from its body into people's skin, has invaded the United States. It has been discovered in the cocoon state in every parcel of shrubbery and nursery stock imported from France this winter. So important does Professor Smith consider the invasion that he has called a meeting of the leading entomologists of the east, to be held in this city (New York) next Tuesday, to consider the plague.

The moth is also known as the nettle-bug. It is damaging to shrubbery and forest growth and a torment to the human race. If not checked it will make mosquitoes seem mild even to Jerseymen. Flying through the air like clouds of dust, the insects drop tiny nettles like invisible spears which penetrate the cuticle of man.—Chicago Examiner January 29, 1909.

It would seem that it is impossible for the average newspaper reporter to give a plain statement of facts. Perhaps the public demands the embellishment and prefers the highly seasoned article. It is doubtless true that such articles as the one above quoted are more apt to catch the public eye, but the gross exaggeration is likely to lessen in the end the effect of the few facts included. I do not know whether or not Professor Smith has called a meeting of entomologists, but I do not for a moment believe that he is in any way responsible for the statements made in the article.

The brown-tail moth (Euproctis chrysorrhea Linn.) is not new to this country, it having been introduced nearly 20 years ago, supposedly in an importation of Holland grown roses. This winter it has been brought in again in an importation of French nursery stock shipped to Dansville, N. Y. There may have been other cases, but this is the only one which has come to my knowledge. Certainly it is untrue that it has come in "every parcel of shrubbery and nursery stock imported from France this winter."—"Flying through the air like clouds of dust the insects drop tiny nettles like invisible spears which penetrate the cuticle of man." The female moths like the male of this species, flies freely. They are about an inch or more across and are pure white except for a bunch of brown hairs on the tip of the abdomen; so, you see, it requires quite a vivid imagination to transform them into clouds of dust. The caterpillar when full grown is about two inches long and bears two tufts of reddish brown hairs on each segment of its body. These hairs are finely barbed, quite brittle, and are constantly being broken off by striking against twigs, etc. When these hairs come into contact with the human skin they cause a very unpleasant irritation which is known in eastern Massachusetts as "brown-tail rash." The vision of these caterpillars "Flying through the air" must truly be an awe inspiring sight.

I have spoken elsewhere of the danger of the introduction of this pest, and of its further spread in this country; but I take this opportunity to add a few words to the warning. The eggs are laid in July or August on the under side of leaves, and the young hatch out in about a month. After feeding for a short time the young caterpillars begin to prepare their winter quarters by binding together with a silken web a bunch of leaves at the tip of a twig. In this nest they pass the winter. After the foliage of the trees has fallen these nests remain on the twigs, and are, therefore, quite conspicuous and easily seen and gathered. After emerging from the nest in the spring they feed voraciously until full grown when they spin their cocoons usually on the bark of the trees on which they feed, but sometimes upon leaves, stones, fences or other objects.

It is from these nests that the principal danger of establishing new centers of infection threatens. These may be easily removed from the twigs of nursery stock, but they might easily escape observation in the ordinary packing material used in shipments. Look out!

JOHN F. COWELL.

Milwaukee Parks.

In a report made public January 30, the metropolitan park commission of Milwaukee, Wis., outlines the system of parked thoroughfares which it recommends in connection with a civic center for adoption by the city. Drawings accompany the report which show that the civic center is to extend from the city hall to Ninth street, embracing four public institutions at the outset. These are the city hall, auditorium, library and museum. It is the proposal of the commission to have all public institutions hereafter to be erected placed within this area.

Radiating from the center thus established are to be what the commission terms "parked ways," the minimum width of which is to be 130 feet. The prevailing width through crowded sections is to be 150 feet, and with the co-operation of the county it is proposed to extend them beyond the city, parks being formed by widening them at intervals at the outskirts. The report shows the manner in which these ways are to be divided into drives, spaces for trees and shrubbery, car lines, grass plats, sidewalks, etc.

To meet the expense of the undertaking, says the Milwaukee Free Press, it is proposed that the city, instead of buying the strips of ground actually needed for the ways, purchase strips of the width of two or three blocks, replatting the land not needed for the "parked way" and selling it off. A net profit to the city is thus contemplated, "although," the report says, "much money becomes involved during the procedure."

Notes on Nuts.

The Department of Agriculture recognizing the great commercial importance the pecan is attaining, not only in the south, but in the whole country, has made a special appropriation to aid in its development. The work planned and already in operation is along lines which the individual cannot do for himself yet is of importance to all concerned in pecan production.

BERCKMANS'

Dwarf Golden Arbor-Vitæ

(BIOTA AUREA NANA)

ALTHEA MEEHANII

Large Field-Grown ROSES Dorothy Perkins, Crimson Rambler,

Biota Aurea Conspicua, Juniperus Communis, Gardenias, Magnolia Grandiflora, Latanias, Pandanus. Phoenix.

TREES American White Elm, Tulip Poplar, American Linden.

P. J. BERCKMANS CO., Inc.

FRUITLAND NURSERIES

Established 1856. **AUGUSTA, GA.**

In one of the papers prepared for the recent Nut Growers' convention is found the following in regard to pecans: "Where hundreds of pounds were used a few years ago, thousands of pounds are used now. I was very much struck by this fact a few days ago, when a pecan grower made a remark to the effect that his trade took his output now just as readily as it did years ago, though in the meantime his crop had increased many fold."

The nut producing qualities of the pecan is no longer a debatable question. The nature-planted trees in the valleys of the Mississippi, the Brazos and the Colorados, that have for hundreds of years yielded their crops of nuts and withstood the vicissitudes of wind and weather, of man and beast, attest this. Trees 100 years old, planted by man, go to show that it yields readily to cultivation. We produce the nuts. What more is demanded?

Sophora Japonica.

There are few trees flowering during the months of July and August, and fewer still brighten the September days. However, Sophora Japonica (Stypnolobium Japonicum) is included among these few, says The Garden, and on that account should be extensively grown even were it far less beautiful than it really is. The sophora forms a well-shaped, bushy tree 30 to 40 feet high, and of similar dimensions in thickness. It has light green leaves, which give it an attractive appearance even when it is not in bloom. The pea-shaped flowers, which are produced in panicles nine inches long, are quite small, being no more than half an inch across. They are, however, produced in such abundance that their diminutive size is no disadvantage.

American Everblooming Hydrangea.

Strong field-grown plants, 15-in. and up, $2.00 per doz., $15.00 per 100; field-grown plants, 8 to 12 in., $10.00 per 100, $90.00 per 1000; field-grown plants, 4 to 8 in., $6.00 per 100, $50.00 per 1000. Lists free.

THE E. Y. TEAS CO., Centerville, Ind

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

C. KERKVOORDE NURSERIES

WETTEREN, n. GHENT, BELGIUM.

100,000 **Roses,** low budded on Rosa canina, all best sorts, our selection, $4.00 per 100; purchaser's selection, $5.00 per 100. 25,000 **Plants,** straight, transplanted, 10-12 feet, $10.00 per 100; 12-14 feet, $12.00 per 100. **Azalea, Rhododendron, Conifers, Peonies.** Cash with order. Catalog free.

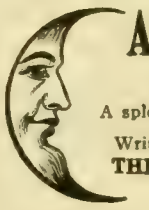
Kallen & Lunnemann

BOSKOOP, HOLLAND.

Largest Growers and Exporters of High Grade **Rhododendrons, Boxwood, Conifers, Koster Blue Spruce, etc., etc.**

Watch for Our Interesting Price Lists.

SPRINGFIELD, MASS.—The Republican has placed a fund of $200 in trust of the Horticultural Society to be used in prizes for the best results in garden ornamentation during 1909.



ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.
CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....
PAINESVILLE, OHIO.

BOBBINK & ATKINS,

Rutherford, N. J.

Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

Always mention The American Florist when you order stock. : : : :

Rooted Carnation Cuttings.

PINK	100	1000
Afterglow	$6 00	$50 00
Winona	6 00	50 00
Winsor	3 50	30 00
Rose Pink Enchantress	3 00	25 00
Enchantress	2 50	20 00
Lawson	2 50	20 00
Aristocrat	3 50	30 00

WHITE	100	1000
Sarah Hill	$6 00	$50 00
White Enchantress	3 00	25 00
White Perfection	3 00	25 00
Lady Bountiful	2 50	20 00
Queen	2 50	18 00
Lt. Peary	2 50	18 00
Lawson	2 50	20 00

RED	100	1000
Beacon	$3 50	$30 00
Victory	3 00	25 00
Robt. Craig	2 50	20 00

MISCELLANEOUS	100	1000
Harry Fenn	$2 50	$20 00
Harlowarden	2 50	20 00
Patten	2 50	20 00

We Guarantee Satisfaction. **THE LEO NIESSEN CO.,** Wholesale Florists, 1209 Arch St., **Philadelphia, Pa.**

CARNATION CUTTINGS

We offer choice varieties for January and later shipments.

	Per 100	Per 1000
ENCHANTRESS	$2 50	$20 00
WHITE "	3 50	30 00
ROSE PINK "	2 50	20 00
WHITE PERFECTION	2 50	20 00
WINSOR	3 50	30 00
MELODY	2 50	20 00
BEACON	3 50	30 00
VICTORY	3 50	30 00
ARISTOCRAT	3 50	30 00
SPLENDOR	6 00	50 00
VESPER	3 50	30 00
WHITE LAWSON	2 50	20 00

East Sudbury Greenhouses,

CARNATION SPECIALISTS

P. O. Address, SOUTH SUDBURY, MASS.

Telephone So. Sudbury 20

Rooted Cuttings Now Ready

Nothing but the Best at Lowest price—first come, first served. Credit only to reliable people.

	Per 100	Per 1000
W. H. Taft (New Red)	$12 00	$90 00
Victory	2 50	20 00
Enchantress	1 75	15 00
Pink Lawson	1 50	12 50
White "	2 00	18 00
Variegated "	2 75	25 00

UNROOTED STOCK

Mrs. A. N. Nelson	$ 60	$ 5 00
Crusader	60	5 00
Boston Market	60	5 00

Lawson, pink, white and variegated, half rate.

SCHEIDEN & SCHOOS, 60 Wabash Ave., Chicago

Begonias Failing.

ED. AMERICAN FLORIST:—

Will you please tell me the cause of begonias which I bed out in summer thriving well where they are bedded, but in the fall, when I take them up for stock, they are loaded with eel worm and the few I take in degenerate and produce no cuttings? I have B. semperflorens, B. Vernon, B. La Vesuive, B. Erfordii and B. gracilis. Can I mix anything with the soil, which is good loam enriched with good well rotted horse manure?

Massachusetts. M. H. W.

Since the primary cause of this trouble with begonias appears to be injury from eel-worms, or nematodes, it will first be necessary to get rid of this infection, which probably had its origin in the greenhouse, the plants being more or less knotted when set in the open and finding congenial surroundings during the warm summer months. The sand in the cutting bed and the soil used for propagating should be sterilized by steaming until a potato placed in the upper layer is well cooked. Cuttings may then be grown which will be free from the disease at the time they are set out in the spring. It was formerly supposed that an exposure to freezing would exterminate nematodes in our northern states. We now know that this is not always the case, but if "M. H. W." can plant his begonias in a new place for a season or two, the trouble will probably disappear. In many cases, in fact, it is only necessary to make sure that the young plants are perfectly healthy when set out. A. F. W.

CHRYSANTHEMUMS

THE KINDS THAT WILL PLEASE

You and Your Patrons.

If you do not know the best, we will gladly make suggestions, no trouble to us and costs nothing but the asking.

ROOTED CUTTING LIST NOW READY

Also seed of the best Asters for florists' use.

ELMER D. SMITH & CO., Adrian, Mich.

ROSES FOR FORCING. NOT "Made in Holland."

All strong, field-grown two years; strictly New York grown.

Crimson Rambler, Dorothy Perkins, Lady Gay, XXX grade, at $12.00 per 100; No. 1 grade at $8.00 per 100

HYBRID PERPETUALS.

The following at $10.00 per 100: Alfred Colomb, Anne de Diesbach, Baby Rambler, Clio, Coquette des Alps, Frau Karl Druschki, Gen. Jacqueminot, Magna Charta, Margaret Dickson, Mme. Gabriel Luizet, Mrs. John Laing, Marchioness of Lorne, etc.

Ulrich Brunner.....$13.00 per 100 **American Beauty**..... $15.00 per 100

GRAFTED ROSES.

For April and Later Delivery. Our Grafted Roses have given extra good satisfaction, and we are already booking large orders for later delivery. **Varieties: Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley.** Price: $12.00 per 100; $110.00 per 1000.

Order now and plants will be shipped when instructed.

JACKSON & PERKINS COMPANY, Newark, New York

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., **Cincinnati, O.**

Lloyd Carnations.

The Only Ever-blooming White in Existence. Easy rooted. Excellent keeper and shipper. Best seller of any white carnation on the market.

	Per 100	Per 1000
Rooted cuttings from sand	$3 00	$25 00
Rooted cuttings from soil	4 00	35 00

Cash with order.

JOHN BENNETT, Atlantic Highlands, N. J.

CARNATIONS!

Apple Blossom. Wanoka.

Rooted cuttings on and after Dec. 1st, '08. We wouldn't **advertise at all** if we could get you to visit our place. Because **"Apple Blossom"** and **"Wanoka"** are their own best advertisements. They are positively **distinctive**-so distinctive as to be leaders in **quality, production** and **character. A very early order** will not disconcert us, and it may be of advantage to you.

WANOKA GREENHOUSES, Barneveld, N. Y

Flower Colors

Use our **COLOR CHART** in describing them.
PRICE, $1.00 POSTPAID.

American Florist Co.,
324 Dearborn St., CHICAGO

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

Bargains in 4-inch Pot

ROSES

for immediate shipment.
400 best sorts, 2½-inch, now or spring.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS.**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS.**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

PETER FISHER

Ellis, Mass.

Send for Price List of Carnations.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan, $12.00 per 100; $100.00 per 1000.

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,

Madison, New Jersey.

NEW WHITE CARNATION

MARCHIONESS

Fine form, prolific early and cotinuous. $10.00 per 100; $80.00 per 1000.

BELLAMY BROS., Syracuse, N. Y.

Successors to L. E. Marquisee Estate.

ALVINA

The Best Dark Pink Commercial Carnation Ever Introduced.

Rooted cuttings, $10.00 per 100: 25 at 100 rate. Your money back if it fails to make good any time before Dec. 15, 1909.

Henry Eichholz, Waynesboro, Pa.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

ELI CROSS, 25 Monroe St., Grand Rapids, Mich.

Insecticide Treatment for Thrips.

ED. AMERICAN FLORIST:—

I have read A. C. Beal's article on "Insecticide Treatment for Thrips" with much interest, and would like to know where I can buy 40 per cent preparation for $10 per gallon. H.

The price quoted is not absolute, but was given to illustrate and enforce the point I desired to make. To have given catalogue prices would have singled out a special brand, and as we are endeavoring to be entirely fair to all the insecticide manufacturers, we sought to give the facts without favoring any one of them. Since the question has been raised, your attention is called to the fact that the first insecticide named on the list averaged so close to 40 per cent nicotine as to be within the limit of analytical error. This one can be purchased from the leading seedsmen for $10 per gallon, as shown by an examination of their retail catalogues.

A. C. BEAL.

CARTHAGE, MO.—G. H. Hollied has moved here from Webb City and taken a position at Finn & Sons' greenhouses. Miss Nell Hollied has taken a position as clerk in charge of the Finn retail store on Main street, a block south of the square. Previous to coming here, Mr. Hollied had been in charge of the S. S. Brenneman greenhouses at Webb City, and before that, was in business for himself at Maryville.

REDLANDS, CALIF.—Frederick Hosp, the landscape gardener, who planned the floral and forestry improvements of Smiley Heights, has arrived in the city to draw plans for the improvement of the new A. K. Smiley library park, south of the present park and library. It is planned to plant most of the large tract to lawns, with a border of trees and shrubbery around it and several shade trees throughout the lawn.

WHITE ENCHANTRESS

Best and largest stock of the PURE White Enchantress of any one in the country. Ready for immediate delivery. A 1, guaranteed to be satisfactory in every respect. $3.00 per 100; $25.00 per 1000. Special prices on large lots.

White Perfection

Large stock of the best cuttings you ever saw Ready now. $3.00 per 100; $25.00 per 1000. Special prices on large lots.

	Per 100	Per 1000
Sarah Hill, white	$6 00	$50 00
Pres. Seelye, white	6 00	50 00
Lloyd, white	5 00	40 00
White Enchantress, white	3 00	25 00
White Perfection, white	3 00	25 00
Lady Bountiful, white	3 00	25 00
White Lawson, white	3 00	25 00
Pink Delight, light pink	12 00	100 00
May Day, light pink	12 00	100 00
Enchantress, light pink	3 00	25 00
Melody, light pink	3 00	25 00
Splendor, pink	6 00	50 00
Winsor, pink	3 00	25 00
Rose Pink Enchantr'ss, pink	3 00	25 00
Welcome, pink	3 00	25 00
Lawson-Enchantress, cerise pink	6 00	50 00
Afterglow, cerise pink	6 00	50 00
Aristocrat, cerise pink	4 00	35 00
Andrew Carnegie, scarlet	6 00	50 00
Defiance, scarlet	6 00	50 00
Beacon, scarlet	4 00	35 00
Victory, scarlet	3 00	25 00

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., Joliet, Ill.

THE NEW CARNATION

LUCILLE

White Overlaid with Pink

A STRICTLY FANCY CARNATION,

Possessing all the best qualities of our leading commercial varieties. It commands the highest prices on the market, owing to its beautiful color, size, stem and magnificent form. It is profitable to grow, because its habit and prolificness are all that could be desired, and its keeping qualities are unequalled. $12 per 100, $100 per 1000.

——WRITE FOR DESCRIPTIVE CIRCULAR——

A. F. Longren, DES PLAINES, ILL.

Highland Park Greenhouses, HIGHLAND PARK, ILL.

New White Carnation

GEORGIA

The Best White

Best for Quality. **Come and See It.** **Best for Quantity.**

This variety is bound to supplant other whites as it not only produces as many or more flowers but every one of them comes with a perfect calyx borne on a long stiff stem, supporting the bloom in perfect shape. This fact makes it greatly superior to other varieties as a money maker. We have 20,000 cuttings in the sand for Jan. delivery. **Rooted Cuttings: $2.00 per doz.; $12.00 per 100; $100.00 per 1000 Satisfaction guaranteed.** See classified "ad" for price list of Standard Varieties.

J. D. COCKCROFT, Northport, Long Island, N. Y.

New Carnation Edward.

This new seedling Carnation is a wonder for producing flowers, full of business from start to finish, continuous throughout the season, cannot be beat for productiveness, easily grown and propagated. **Description:** Deep pink in color, very large and well built up in center with good stem and calyx. Comes into bloom early and keeps at it with wonderful results. **$12.00 per 100; $100.00 per 100.** Will be heard from with others in the future.

W. H. SHUMWAY, Berlin, Conn.

JUST AS A REMINDER

To Our Patrons.

We have ROOTED CUTTINGS of the BEST CARNATIONS.

PATTEN & COMPANY, Tewksbury, Mass.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

For Best Results Advertisers should mail new advertisments and changes so as to reach us on Monday.

THE TAFT ROSE

A Summer Blooming Rose Similar in Growth and Habit to K. A. Victoria.

Color: A Beautiful Rose Salmon. Substance: Has from 55 to 60 Petals. It is a strong, vigorous grower, and we can conscientiously recommend it as a garden rose; tried the same in fifteen different private gardens about Cincinnati the past summer, hearing nothing but the highest praise from all who tried it.

The stock of this beautiful rose is limited, and all growers desirous of having any plants we would kindly ask to send in their orders as soon as possible.

Ready by March 1st, at $15.00 per 100.

THE HYDE PARK ROSE CO., Successors to Sunderbruch & Meier, **Hyde Park, Cincinnati, O.**

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each; $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

ROSES

We have a fine stock of large dormant field-grown plants on own roots, including Crimson Rambler, Dorothy Perkins Clio, Alfred Colomb, Fracois Levet, Jack, Prince Camille de Rohan, Magna Charta, Ulrich Brunner, Glant of Battles, and many others, at $16.00 per 100; $150.00 per 1000 Send for list. **Roses, Dahlias** and **Cannas** a specialty.

THE DINGEE & CONARD CO., West Grove, Pa.

American Beauty ROOTED CUTTINGS

$3.00 per 100; $25.00 per 1000.

Geo. Reinberg,

51 Wabash Avenue, CHICAGO, ILL.

VAUGHAN'S LIST OF

Roses for Forcing

	Per doz.	Per 100
Crimson Rambler.		
2 yrs. old, 2 to 3 ft., well branched, own roots	$2 00	$12 00
2 yrs. old, 2 to 3 ft., well branched, budded	2 00	12 00
3 yrs. old, 3 to 4 ft., well branched, own roots	3 00	15 00
3 yrs. old 3 to 5 ft., well branched, budded	3 00	15 00
4-inch pots		10 00

	Per doz.	100
Dorothy Perkins.		
Strong, dormant, 2 yrs, old	$2 00	$12 00
5-inch pots, strong	4 00	25 00
Tausendschon.		
2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4 inch, pot-grown, strong	3 00	20 00
Lady Gay.		
5-inch pots, strong	5 00	40 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$2 50	$16 00	$150 00
2nd size, selected, grafted	2 00	12 00	100 00
3rd size, selected, grafted	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00	
3-inch	1 25	8 00	
4-inch	2 00	12 00	
5-inch	4 00	30 00	

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
5-inch	35	3 50	25 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties each, 50c; per doz., $5 00; per 100, $35 00

TREE ROSE Crimson Rambler each, 50c; per doz., 5 00; per 100, 40 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.

French Stock per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Rhododendrons, in assorted colors, our selection:			
Strong, bushy well shaped plants, 8-12 buds	$1 00	9 00	
Strong, bushy, well shaped plants, 12-18 buds	1 25	12 00	
Strong, bushy, well shaped plants, 18-24 buds	2 00	20 00	
Lilac, pot-grown, for forcing, Mme. Cassimir, Perier, Bertha Dammann, Mme. Lemoine, strong, well branched, with plenty of buds	1 00	10 00	
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

SAN DIEGO, CALIF.—Arthur Nyberg, a well-dressed young man, was surprised January 28 when detectives told him he was under arrest, charged with stealing $100 from his employer in Ohio. He readily admitted his identity, and told the officers he thought he was safe from prosecution in California on account of the small amount he had taken by means of forging his employer's name. Nyberg was bookkeeper for William Zahner, of Conneaut, O. Finding that his salary did not meet his wants, he, it is alleged, signed checks with his employer's name.

GRAND RAPIDS, MICH.—The park and cemetery commissioners have decided to loan no more plants to private individuals or institutions. "We have requests nearly every day from various organizations, churches and charitable institutions asking for permission to borrow some plants or flowers for some particular occasion," said H. G. Barlow, "The result is that the plants are injured and furthermore it is not giving the florists in the city a square shake. It is a part of their business to furnish plants and flowers for functions and when the city fills the bill in this regard it simply means that the men engaged in the business are being robbed of patronage which belongs to them."

Starting a Greenhouse.

ED. AMERICAN FLORIST:—

What size greenhouse would it be necessary to build, devoted mainly to carnations, chrysanthemums, bulbs, ferns, etc., for retail trade, that would conveniently take one man's time to properly care for the stock, the average income being about $12 per week net, including crops raised outdoors during the summer? What amount of capital would be necessary to properly build this house and install heating system?

Indiana. E. H.

While no very definite answer can be given to the questions, if two houses about 28x100 feet could be obtained, together with the necessary space for a workroom and salesroom, one would be fairly well equipped for business. One house could be run at about 50° and the other at 60° making it possible to grow quite a variety of plants. The houses would cost perhaps $2,500, and one should have $500 as floating capital. While it would be possible to build the houses for a smaller sum they would not be satisfactory, or durable.

L. R. T.

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPP	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		6.00	50.00
ENCHANTRESS		3.00	25.00
MRS. THOMAS W. LAWSON		2.00	15.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		6.00	50.00
RED.	Per 500.		
O. P. BASSETT	$35.00	1.50	8.00	60.00
BEACON			4.00	35.00
ANDREW CARNEGIE			6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		6.00	50.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants. 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Dreer's Tuberous Rooted Begonias

The Begonias and Gloxinias which we offer are grown for us by an expert who has made a specialty of this class of stock for many years, and there is no better or finer strain on the market.

BEGONIAS, Singles in separate colors: Scarlet, crimson, white, rose, yellow and orange, 40c per doz., $3.00 per 100, $25.00 per 1,000.

BEGONIAS, Singles in Choicest Mixture: 35c per doz., $2.50 per 100, $22.00 per 1,000.

BEGONIAS, Doubles in separate colors: Scarlet, rose, white and yellow, 65c per doz., $5.00 per 100, $40.00 per 1,000.

BEGONIAS, Double in Choicest Mixture: 50c per doz., $4.00 per 100, $35.00 per 1,000.

SUN-PROOF BEGONIA, Duke Zeppelin: $1.25 per doz., $8.00 per 100.

SUN-PROOF BEGONIA, Lafayette: $2.00 per doz., $15.00 per 100.

FRILLED BEGONIAS, in separate colors: Scarlet, white, pink and yellow, $1.00 per doz., $7.00 per 100, $60.00 per 1,000.

For a full line of seasonable stock, see our new wholesale list.

HENRY A. DREER, Philadelphia, Pa.

LEGAL NOTES.

Lawsuit Over Tomato Plants.

F. W. Taylor, Bridgeton, N. J., is the complainant in an action brought against the Lehigh Valley Pickling Co. to recover on a disputed claim for $150 worth of tomato plants grown last year for the defendant company at plaintiff's greenhouse on order, as alleged, of the defendant. The defendant took some of the plants, and it is claimed that the others were left on Mr. Taylor's hands, to his financial loss. It was agreed between A. E. Campbell, attorney for the plaintiff, and E. A. Kiley for the defendant that the matter be submitted to arbitration. J. H. Bell and Wm. Patten have consented to act as arbiters and to choose a third one.

Flower Show Prosecution.

At Ashbourne (Derbyshire) petty sessions, October 1, a cottage gardener was summoned by the Thorpe and Dovedale Horticultural Society for attempting to obtain, by alleged false pretenses, two sums of three shillings each on the occasion of the annual show held at Thorpe, August 19 last. Gordon Fraser, honorary secretary to the society, said the defendant was awarded the first prize for a collection of fruit, which consisted of apples, pears, plums, etc., but the money was withheld in consequence of certain information which reached the committee. A visit was paid to defendant's garden, and no pear tree could be seen there, while the other fruit trees did not correspond with the exhibits. Smith admitted that he had obtained the pears from a neighbor, but claimed that he had grown all the other specimens. Mr. Fraser added that the society, which has recently been revived after some years' cessation, had lost a number of subscribers owing to a practice which had prevailed of persons sending in as their own produce exhibits which had been obtained elsewhere. The officials had issued a warning that such exhibits would be forfeited, and that "further proceedings might be taken." Witness submitted a copy of the preliminary schedule, showing the rules, one of which was that all exhibits must have been on the premises and in the possession of the intending exhibitor at least three weeks before the date of the show. The chairman of the bench said the rule was faulty, and while the society had done well to bring the case before the court, there could be no conviction. The rule should have made it plain that the exhibit was the bona fide produce of the exhibitor. The summonses were dismissed, Mr. Fraser stating that the rules would be altered as suggested.—Gardeners' Chronicle, London, Eng., October 10, 1908.

Cement Benches.

ED. AMERICAN FLORIST:—

I have read the comments on the cement bench as used by the E. G. Hill Co. of Richmond, Ind., and am not surprised it is a failure. Tile benches have proven a success, and if cement benches are constructed along the same lines they will prove equally satisfactory. The slabs referred to are too thick and too wide; they should also be porous. Slabs eight inches wide and one inch thick have been tried and good results obtained. A one-piece molded bench or wet molded slabs are not porous enough, causing the ground to sour. My suggestion is "do not condem cement benches but try them along lines that have proven successful." The roses shown at Indianapolis were grown on cement benches.

GEO. M. GARLAND.

DIXON, ILL.—The large supply tank of the water system at Norman Long's greenhouses was burned February 2, entailing a loss of about $600. There was no insurance carried on this part of the equipment, as it was supposed there was very little chance of fire damaging it. The tank had a capacity of 125 barrels, the water being forced to it from a well. Beneath the tank was a heater to prevent the pipes from freezing, and the fire must have started in some way from this.

Araucaria Excelsa

5½ to 6 in. pots, 3, 4 and 5 years old, 4, 5, 6 and 7 tiers, from 18 to 25 to 30 in. in height 60c, 75c, $1.00 to $1.25.

Araucaria Robusta Compacta and **Excelsa Glauca,** specimen plants, small stock, the same in width as in height. 6-in. pots, 4 to 5 years old, 3, 4, 5 and 6 tiers 20 to 25 to 30 in. high, $1.50, $1.75 to $2 00 each.

Cineraria Hybrida, best strain, 4-in. pots, $10.00 per 100; 5½ to 6 in. pots, just right for Easter, 25c, 35c 50c.

Areca Lutescens, 4-in. pots, three plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in. pots, 25c, 30c and 40c.

Boston Ferns, 6-in. pots, 50c; 7-in. pots, 75c, $1.00 to $1.25.

Scottii Ferns, 5½-in. pots, 40c; 6-in. pots, 50c; 7-in. pots 75c to $1.00.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c, $1.00 to $1.25; 9-in. pans, as big as a washtub $1.25 to $1.50.

Neph. Amerpohlii, 5¼ to 5½in. pots, 30c, 40c and 50c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots, 25 to 30 in high, 50c to 60c; 4-in., 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25, 30, 40 to 45 in. high, 75c, $1.00 $1.25, $1.50 to $2 00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c to 60c.

Primula Chinensis, in bloom, 5¼ to 5½ in. pots, $2.00 per doz. **Primula Obconica,** 4-in., 10c.

Azaleas for Easter, best American varieties, 60c, 75c, $1.00, $1 25, $1.50 to $2.00 each.

Jerusalem Cherries for Washington's birthday, large plants, full of buds, 6 to 6½in. pots, 35c 50c, 75c.

Moonvines (Ipomœa Multiflora), best white Moonvine for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

Have an Immense Stock of Easter Plants.

Azaleas by the 1000; Spireas, Lilies, Hyacinths, Daffodils. Watch adv. for Easter.

Please state if in or out of pots.

All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN

Importer, Wholesale Grower and Shipper of Pot Plants,

1012 W. Ontario St., **PHILADELPHIA, PA.**

VERBENAS 70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Begonias,** flowering kinds, $1.75 per 100. **Daises, Heliotrope, Salvias** and **Alyssum,** dbl., $1.00 per 100; $8 00 per 1000. **Petunias,** dbl, $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5.00 per 1000. All rooted cuttings.

GERANIUMS, from 2¼-in. pots, at $2.50 per 100; $22.00 per 1000.

Express prepaid. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

Cincinnati.

NO LIFE TO BUSINESS.

Trade reports from different sources about the city are no more encouraging than a week ago. There does not seem to be any life to the business and it takes some tall hustling to unload the stock coming in; especially is this true regarding carnations, for it seems that at the present writing this flower must be in full crop with every grower, judging from the amount shipped to this market. Roses are about equal to the demand with the exception of American Beauty which from reports are off crop. Violets were not so plentiful the past week and the singles were sold out clean every day. Bulbous stock is not being forced very extensively about this city this season, but there is always a supply on hand each evening.

The Hyde Park Rose Co. will disseminate its new rose the coming spring. This is the variety known hereabouts as the Taft rose and received a lot of advertising about this city last summer by its blooming qualities and beautiful color. The first day this firm notified the trade that they were going to send out the rose this spring they received orders for 1,500 plants and is very much encouraged by the future outlook.

S. S. Skidelsky, Philadelphia, was a caller the past week stopping over on his way home from the carnation meeting at Indianapolis. He greatly praises the two new roses, My Maryland and White Killarney and, judging from the orders he has booked, these two varieties will be grown very extensively next season.

S.

VERBENAS

62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection..........$ .75 per 100; $ 6.00 per 1000
Plants, our selection.......... 2.50 per 100. 20.00 per 1000
Rooted Cuttings, purchaser's selection.......... .90 per 100; 8.00 per 1000
Plants, purchaser's selection.......... 3.00 per 100; 25.00 per 1000

Carnations

All the Best New and Standard Varieties. Send for circular.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS...

60,000 S. A. NUTT

Grown in 2-inch pots; all graded to an even size. No yellow or dead leaves. Just right for 4-inch pots. Nothing but good plants put up in order. They are sure to please you, $2.00 per 100; $20.00 per 1000. Money order or draft must accompany all orders.

C. B. KNUTH

Wholesale and Retail Grower of Bedding Plants,

11801 St. Clair Ave., CLEVELAND, O.

SURPLUS STOCK

	Per 100
300 Cyclamen, assorted, budded, 3-in pots...	8 00
150 Chinese Primroses ready for shift 2½-in "	5 00
200 Cinerarias, Dwarf, " " 3-in. "	6 00
100 Whitmani Ferns, 2½-in. pots..........	5 00
100 " " 3-in. pots, extra fine...	12 00
75 Boston Ferns, 3-in. pots..........	6 00
75 Piersoni Ferns, 3-in. pots..........	8 00
75 " " 2½-in. pots..........	$5 00
50 " Elegantissima Ferns, 2½-in. pots	5 00

Prices on Perennials on application.

ROSES	Per 100
Clothilde Soupert, 2-year field grown.......	$18 00
Anna Mueller, " "	15 00
Crimson Rambler, " " $12.50, $16.00,	18 00

PERENNIAL GARDENS CO., Toledo, Ohio.

PANSY PLANTS.

100,000 large flowering from fiield beds, 50c per 100; $2.50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Asparagus Plumosus

2¼-in. pots $2.00 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high..........$2 50 each
7-in. pots, 36 to 38-in. high.......... 3 00 each
9-in. tubs, 42 to 48-in. high.......... 5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high..........$2 50 each
7-in. pots, 36 to 38-in. high.......... 3 00 each
9-in. tubs, 42 to 48-in. high.......... 5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

Tuberose Bulbs

GENUINE MEXICAN EVERBLOOMING

If you have never grown these for summer cutting, you have overlooked a fine thing.

1st size..........$10 00 per 1000
2nd size.......... 8.00 per 1000

Each bulb will produce two to six spikes.

FURROW & COMPANY

Guthrie, Oklahoma.

Mention the American Florist when writing

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Wittbold FLORIST

Phoenix Canariensis 9-in. pots, 3½ to 4-feet above the pot. 8 to 10 leaves at $2.50 each.
KENTIAS, LATANIAS, PANDANUS, FERNS, PERENNIALS, SHRUBS, ETC.
Assorted Ferns for Ferneries, $3.00 per 100; $30.00 per 1000.
ORDER NOW.
Send for Complete Price List.
THE GEO. WITTBOLD CO.,
1657 Buckingham Place, CHICAGO.

Neph. Whitmani
2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100
Boston Ferns 2¼-inch, $3.00 per 100.
Henry H. Barrows & Son, WHITMAN MASS.

Asparagus Plumosus Nanus.
Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000; 2-in., $16.00 per 1000
No order taken for less than 1000.
Drake Point Greenhouses, Yalaha, Florida

LARGEST STOCK OF ALL
Belgian Plants
AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.
LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Freshly Imported Orchids
We beg to offer a fine lot of the superb **Cattleya Gigas Sanderiana** just arrived in finest condition, also C. Bogotensis, C. Gigas, (Hardyana type), Miltonia Vexillaria, etc. Write for prices,
Lager & Hurrell, Summit, N. J.

At St. Paul.

The bowlers of the twin cities met in Minneapolis February 4. The St. Paul braves carried home the scalps of their Minneapolis brethren. The official score was as follows:

Minneapolis.			
Wirth	100	112	112
Meyer	112	122	130
Carlson	129	90	119
Boeglin	109	111	146
Ruedlinger	138	179	139
Total	588	614	646
St. Paul.			
N. C. Hansen	104	148	112
Carl Haugen	111	100	126
Dill	131	122	109
Puvogel	110	154	128
Olson	126	134	200
Total	582	658	675

A return engagement may be looked for soon.

FELIX.

At Louisville.

The Florists' bowling club had a very enjoyable prize bowling Monday night, James Doerr capturing first, Geo. Stark second, and Jacob Schulz third. Following are the scores:

	1st.	2nd.	3rd.
Geo. E. Schulz	110	122	126
James Doerr	120	172	181
Fred L. Schulz	149	120	125
Andy Brand	149	100	144
Louis Kirch	111	111	102
Karl Rabe	108	123	91
Total	747	748	769
Robt. Miller	122	102	141
Wm. G. Walker	146	140	103
George Stark	158	137	121
Jos. Wettle	124	145	124
Jacob Schulz	126	134	149
	110	110	110
Total	786	768	748

Capt. Miller's team defeated Capt. Geo. E. Schulz's two out of three. High score, James Doerr with 181. Low score, Karl Rabe with 91.

F. L. S.

GERANIUMS.
Our Geranium catalogue describes one of the largest and best collectons in this country, including the best Standards and Novelties 2-inch pots.
$2.00 per 100 and up.

Hardy Pompon Chrysanthemums Every grower of Chrysanthemums will want to grow the Pompons next fall. We have the best collection to select from, and are acknowledged to be headquarters. $2.00 per 100. Special prices on large lots.

Lobelia
Kathleen Mallard, the new double Blue Lobelia We shall continue this week to offer this novelty of exceptional merit, at the special price of $2.00 per 100.

Dahlias We have a splendid collection in plants for next spring or roots next fall. Ask for list and prices.
SALVIA Bonfire.....$2 00 per 100
Zurich..... 3.00 per 100
We also offer a general collection of bedding stock.
R. Vincent, Jr. & Sons Co., White Marsh, Md.

ROOTED CUTTINGS AND PLANTS
Good Stock. Low Prices.
Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Varieg.,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula,** Obc. Grandif. Lilac, 2¼-in., strong stock, $1.75 per 100; 200 for $3.00. Cash.
Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.
Assorted Varieties.
From 2-in pots, $3.50 per 100; $30.00 per 1000.
FRANK OECHSLIN
2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

ORCHIDS
We are booking orders now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.
We sell only first-class goods.
CARRILLO & BALDWIN, SECAUCUS, N. J.

ORCHIDS
Largest Importers, Exporters, Growers and Hybridists in the World.
SANDER, St. Albans, England.
NEW YORK OFFICE: T. MELLSTROM.
Room 1, 235 Broadway. Agent.

A Big Bargain to close out
Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each, $7.50 per doz.
Cash with order.
WALTER W. COLES, Kokomo, Ind.

BLOOMINGTON, ILL.—The Phœnix Nursery Co. opened its new place of business in the Griesheim building February 1. Hundreds of people visited the new store and each received a carnation.

A FEW GOOD THINGS YOU WANT.
Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in. $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1 50; 2-in. pots, $2.50; 3-in., $5.00 per 100. Mme. Salleroi, 2-in. $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-inch, $2.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100.; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order.
GEO. M. EMMANS, NEWTON, N. J.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Dbl. Petunia, 10 kinds, 2-in., 2c.
Geraniums, single and dbl. Grant, Buchner, etc. 2-in. 2c.
Ageratum, 2-in. 2c. **Rose Geraniums,** 2-in. 2c.
ROOTED CUTTINGS, prepaid per 100: **Cuphea** 75c; **Paris Daisy,** white, yellow; **Swainsona** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c; $8.00 per 1000; **Alternanthera,** 3 kinds, 50c; **Ageratum, Coleus,** 60c; $5.00 per 1000; **Artillery plant, Hardy pinks,** 75c. **Flowering Begonias,** $1.25. **Fuchsias,** 8 kinds, $1.00. **Salvia** Splendens, Bonfire, 75c. 2-in. 2c. **Parlor Ivy,** 75c.
Cash or C. O. D.
BYER BROS., Chambersburg, Pa.

Alternantheras
Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W DAVIS,
225 W. 16th St., DAVENPORT, IOWA

300 for $5.00
Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000
J. C. SCHMIDT, Bristol, Pa

Etherization of Plants for Forcing.

This was the topic of Wm. Stuart of the Vermont Agricultural Experiment Station at the regular Saturday morning lecture of the Massachusetts Horticultural Society February 6. Mr. Stuart said, in part:

The employment of ether and other substances possessing anæsthetic properties as an aid to forcing certain flowering shrubs, and herbaceous perennials into bloom during their period of dormancy or of intense rest, is a comparatively new development in plant forcing. Notwithstanding the fact that ether, chloroform and other anæsthetics are now known to impart when properly used, a decided growth impulse to plants in the earlier stages of dormancy, its employment commercially, so far as the writer is informed, is exclusively confined to European establishments. A possible explanation for this lack of interest on the part of American gardeners, is that flowering shrubs, such as lilacs, deutzias, spireas, viburnums, etc., are not used so extensively for forcing purposes as in Europe, certainly not in the early winter months, when it is most difficult to force them successfully.

Investigations regarding the nature of the effect of ether, chloroform and other substances upon plants may be very properly considered under two heads, viz.: The physiological effect upon the tissues of a plant in an active growing condition, and the growth acceleration effect upon plants in a state of complete rest. Naturally the first phenomenon to be studied was that of the physiological effect. Such experiments were the results of inquiries on the part of investigators as to the comparative effect of anæsthetics upon animals and plants.

LECLERC'S INVESTIGATIONS.

The earlest mention we have been able to find regarding etherization of plants is that contained in an article by Drude, Ledrin and Naumann, published in 1902, in which the authors claim that Leclerc, more than 50 years ago observed the action of ether upon plants. Unfortunately they neglected to cite their authority for this statement, and we are therefore left in doubt as to the exact nature of Leclerc's investigations, and are unable to determine whether he was the first to discover that plant response to anæsthetics, was physiologically similar to that in animals. It seems rather singular that such writers upon the subject of etherization as Johannsen and Maumene should not have known of these earlier investigations, certain it is that no mention is made of Leclerc's work in any of their publications.

These writers and those who have followed them, with one exception, have given the credit for this discovery to Claude Bernard. Bernard's observations were made in 1878 and he stated that his experiments proved that ether and chloroform react very naturally upon all living substances; "their action reveals in the sensibility a property common to all living beings, both animal and vegetable, simple or complex." Bernard continued his observations upon vegetable tissues by experimenting with seeds. He found that when seeds were subjected to the fumes of ether, no germination could be secured. In 1891 Dr. Raphael Dubois published the results of some studies on the physiological effect of anæsthetics upon plants, confirming Bernard's discovery.

While the study of the effect of ether and other similar substances upon the tissues of plants in active growth served to show the close physiological relationship between plants and animals, it failed to give any evidence of an after stimulating effect upon plant growth. The discovery of this phenomenon did not occur until some 12 years later (1890), when Dr. W. Johannsen of the royal school of Copenhagen, Denmark, conceived the idea that the normal resting period of plants might be very materially abridged and their growth accelerated by the use of ether or chloroform. His first experiments were performed upon willows and bulbous plants. The results secured from these plants were so satisfactory that in subsequent experiments he included lilacs, viburnums, azaleas, deutzias, and other ligneous plants which gave even more marked success. The results of these investigations were first made public by Johannsen in 1893 in a very interesting paper presented before the Royal Academy of Science of Copenhagen. These and later experiments were embodied in a brochure published by Johannsen in 1900. The publicity attendant upon the presentation of Johannsen's paper in 1893 quickly awakened an interest among horticulturists in other parts of Europe in the commercial possibilities of stimulating plants into active growth by the aid of anæsthetics.

PERIODS OF MOST MARKED EFFECT.

Generally speaking, all hardy plants of northern climates have a well-defined rest period, which is usually designated the dormant period. During this season of rest the protoplasm of the cell is in a more or less complete quiescent condition. The first period of repose is defined as that immediately following the formation of flower and leaf buds, extending from June to September. The second period, which is shorter, includes September and about three-fourths of October. The after-rest period begins the latter part of October and extends into December, and under certain conditions possibly into January. According to Johannsen's observations, the most marked effect from etherization is obtained from treatments made during the first and last rest periods. The central period being the season of deepest rest, it is more difficult to create an impression upon it by etherization. Less marked results may be expected toward the close of the third rest period than at the beginning of it. Of course, any division of the period of rest in plants must be of a more or less arbitrary nature. Unseasonal climatic conditions exert such a marked effect upon the plant growth as to materially change the first and second rest periods. Such variations must of necessity be taken into consideration by the forcer of plants.

METHODS OF PROCEDURE.

While there is no one method of subjecting plants to the vapors of anæsthetics which may be considered superior to all others, there are certain general rules by the observance of which one may attain a greater degree of uniformity and success in his results. Woody plants, like lilacs, spireas, viburnums, etc., force much more satisfactorily if grown in pots the season in which they are to be forced. The balls of earth of the plants to be treated should be reasonably dry. Their removal from the pots for treatment is not a necessary procedure.

The receptacle to be used for etherization purposes should be so constructed as to be essentially air-tight when closed. Wooden, metal or cement cases may be used. Those used at the Vermont station are constructed of two thicknesses of matched lumber, with building paper between. The interior is thoroughly coated with paraffin, applied when hot. The door fits tightly, and after closing the crack surrounding it, is filled with melted paraffin, hence there is no possibility of leakage of gas. The anæsthetic used is poured through an opening in the top of the case, onto a sponge in a receptacle suspended immediately beneath. The sponge facilitates the vaporization of the liquid used. With the closing of this intake the process is completed.

Plants treated in October require a longer period of treatment and a larger amount of anæsthetic per cubic foot of air space than similar plants treated in November. The same statement applies equally as well to November and December treatments. Briefly stated, the later the treatment and shorter the period of exposure, the smaller the amount of anæsthetic used. The best temperature at which to treat the plants is in the neighborhood of 60° F. It may vary, however, between 55° and 65° F. without materially influencing the results. If higher temperatures prevail the dosage, period of treatment, or both, should be reduced accordingly. On the average one may expect, in such plants as lilacs, that those etherized will come into bloom from eight to ten days earlier than the untreated ones.

VERMONT EXPERIMENTS.

Experiments at the Vermont station upon the use of anæsthetics were first undertaken in the winter of 1903-4. The object of the investigation was to determine whether anæsthetics would produce growth acceleration in plants forced for their vegetative rather than their flowering parts. The results of trials indicated at once that ether at least by the methods employed, could not be used as a substitute for freezing. A new line of research into the comparative efficacy of ether as compared with other substances possessing anæsthetic or toxic properties was undertaken during the winter of 1906-07. Results were secured to indicate in a general way at least that other substances could be substituted for ether and chloroform in forcing plants into growth.

Profiting by the previous season's experience the experimental work of 1907-08 was confined very largely to pot-grown plants of lilacs, azaleas, peonies and irises. The data obtained from the treatment of bulbous plants have not been sufficiently uniform to warrant any conclusions.

St. Paul.

A dance and card party will be given under the auspices of The Minnesota State Florists' Association at U. C. T. hall, corner Fourth and St. Peter streets on Monday evening, February 15. It is earnestly hoped that everyone in the trade and their friends will attend and make this first social affair a success.

FELIX.

CLINTON, IA.—Andrew Bather's store has been removed to Fifth avenue, where an entire store building will permit the fullest display of flowers and decorative accessories. The stock in all lines has been enlarged and is displayed to the best possible advantage.

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Denver.

FLOWERS SCARCE.

The prominent feature of the cut flower business for January was the scarcity of flowers. Everything in roses was very scarce, especially American Beauty, as the growers say they were off crop, and it was very difficult to get enough stock to fill orders. Business was very much better for January than a year ago. This was due chiefly to a good many funerals, and a number of retailers report an increased business over last month of 40 per cent, which was very good. Prices were high on all grades of stock. We are now getting in quite a number of tulips and hyacinths in pans, and this will relieve the cut flower market so we will have plenty from now on. Carnations are commencing to come in plentifuliy, and all very fine. In fact, owing to the cold weather, all grades of stock are A-1—long stem, good sized flowers, with good keeping qualities.

A. Mahan, formerly of the Alpha Floral Co., is spending the winter in California for the benefit of his health, which has been very poor the past year. He has sold the business to the Park Floral Co. PLATTE.

URBANA, O.—Last June, Chas. Greis engaged a man to sell flowers for him. He was successful in getting orders but omitted to turn in the money received. After looking for him ever since, Mr. Greis has at last located the gentleman in Columbus and he has been arrested.

CHAMPAIGN, ILL.—Bode & Johnson, were swindled recently by a smooth talking young man who called at the greenhouse and ordered something over $3 worth of flowers which he had delivered. In payment he presented a check on the Citizens' bank for $20, payable to G. A. Noble and signed with the same name. This he endorsed with the same name and received $16 in cash for change. When the flowers were delivered and inquiry made, the firm learned that no person of that name lived at the address and later the firm found there was no money in the bank to meet the check.

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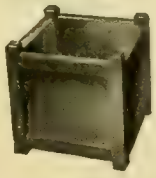
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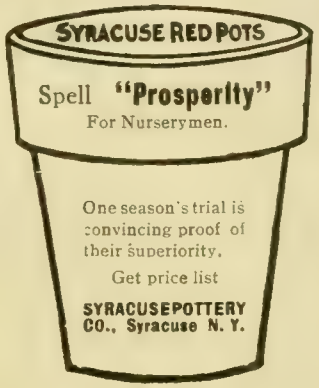

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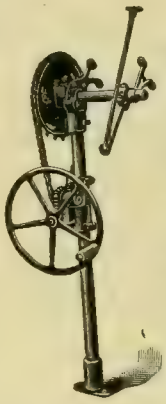

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Asparagus plumosus, 2¼-in., $2.50; 3-in., $5; 4-in., $8; Sprengeri, 2¼-in., $2; 3-in., $4; 4-in., $7. Mosbæk Greenhouses, Onarga, Ill.

Asparagus plumosus, seedlings, $7.50 per 1,000: 2-in., $16 per 1,000. Drake Point Greenhouses, Yalaha, Fla.

Asparagus plumosus, 2¼-in., $2 per 100. Jos. H. Cunningham, Delaware, O.

Asparagus plumosus, 4-in., $8 per 100. W. W. Coles, Kokomo, Ind.

Asparagus. A. M. Herr, Lancaster, Pa.

AZALEAS.

Azalea mollis, Easter forcing, full of buds, 50c each; $4.50 per doz.; $35 per 100. Vaughan's Seed Store, Chicago and New York.

Azaleas, Apollo, in bloom, 75c to $1. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Azaleas. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Azaleas. Jacs Smits, Ltd., Naarden, Holland.

Azaleas. W. & T. Smith Co., Geneva, N. Y.

BAY TREES.

2,000 bay and box trees in all sizes; pyramid and standard. Write for list. Julius Roehrs Co., Rutherford, N. J.

Bay trees. L. Van Houtte, Pere, Ghent, Belgium.

Bay trees. Bobbink & Atkins, Rutherford, N.J.

BEGONIAS.

Begonias, flowering, R. C., $1.75 per 100. S. D. Brant, Clay Center, Kans.

Rex begonias my specialty, $5 per 100; $40 per 1,000; 250 at 1,000 rate. B. C. Blake, 417 Johnson Ave., Springfield, O.

Begonias, flowering, R. C., $1.25. Byer Bros., Chambersburg, Pa.

Begonia Gloire de Lorraine, 6-in., 75c to $1. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Begonia Rex, $5 per 100. Geo. M. Emmans, Newton, N. J.

Begonias. L. Van Houtte, Pere, Ghent, Belgium.

BOXWOOD.

Boxwoods. Kellen & Lunnemann, Boskoop, Holland.

Box trees. W. & T. Smith Co., Geneva, N. Y.

Boxwood. Jacs Smits, Ltd., Naarden, Holland.

BULBS, American.

Bulbs, gladiolus for forcing, America, $5 per 100; $40 per 1,000. Augusta, $2 per 100; $17 per 1,000. Brenchleyensis, $1.45 per 100; $11.50 per 1,000. Mrs. Francis King, $2.75 per 100; $22 per 1,000. Mme. Moneret, $2.25 per 100; $19 per 1,000. May, $1.75 per 100; $15 per 1,000. Shakespeare, $4.50 per 100; $40 per 1,000. Colvilli alba and rubra, 75c per 100; $6 per 1,000. Blushing Bride, 85c per 100; $7 per 1,000. Peach Blossom, $1.75 per 100; $15 per 1,000. Begonias, single white, yellow, scarlet, pink, $2.50 per 100; $22.50 per 1,000; double white, yellow, scarlet, pink, $4.50 per 100; $40 per 1,000. Gloxinias, separate colors, $3.50 per 100: $30 per 1,000; mixed, $3.25 per 100; $28 per 1,000. Vaughan's Seed Store, Chicago and New York.

Gladiolus bulbs, Groff's Hybrids, small size, (bulblets), $1 per 1,000 postpaid; named varieties, $2 per 1,000. Henry Field Seed Co., Shenandoah, Iowa.

Bulbs, gladioli, lilies, Hyacinthus candicans, spotted callas, oxalis, millas, besseras, etc. E. S. Miller, Wading River, L. I., N. Y.

Bulbs, gloxinas and tuberous rooted begonias. J. M. Thorburn & Co., 33 Barclay St. N. Y.

Gladiolus Lemoinei and Nanceianus. V. Lemoine & Son, Nancy, France.

Gladiolus bulbs, $1 per 100. Geo. M. Emmans, Newton, N. J.

Bulbs of all kinds. A. T. Boddington, 342 W. 14th St., New York.

BULBS, Imported.

Bulbs, hyacinths, single. Priestly, Amy, Baron van Tuyll, pink; Chas. Dickens, pink; Fabiola, Garibaldi, Gen. Pelisier, Gertrude gigantea, Norma, Robt. Steiger, Roi des Belges, Romeo, Alba Superbissima, Albertina, Baroness van Tuyll, Grandeur Merveille, La Franchise, La Grandesse, L'Innocence, Pavilion Blanc, Queen Victoria, Baron von Tuyll, blue; Blue Meurant, Chas. Dickens, blue: Grand Lilas, Grand Maitre, King of the Blues, La Peyreuse, Leonidas, Pieneman, Queen of Blues, Regulus, King of Yellows, Haydn, Czar Peter. Double: Bouquet Royal Red, Bouquet Tendre, Czar Nicholas, Grootverst, Le Grand Concurrent, Noble par Merite, Prince of Orange, Bouquet Royal White, Grootverstin, La Virginite, Non Plus Ultra, Bloksburg, Chas. Dickens, blue; Crown Prince, Gen. Antinck, Lord Raglan, Goethe, Jaune Supreme, $4.50 per 100. James Vick's Sons, Rochester, N. Y.

Bulbs, Lilium longiflorum Multiflorum, 6-8 and 7-9; giganteunr, 7-9. W. C. Beckert, 103 Federal St. North Side, Pittsburg, Pa.

Bulbs, tuberoses, Mexican everblooming, 1st size, $10 per 1,000; 2nd size, $8. Furrow & Co., Guthrie, Okla.

CANNAS.

Cannas, Wawa, new Wm. Saunders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert, etc. The Conard & Jones Co., West Grove, Pa.

Cannas. See our display for varieties and prices. Mosbæk Greenhouse Co., Onarga, Ill.

Cannas, Burbank, dry roots, $2 per 100. The Phœnix Nursery Co., Bloomington, Ill.

CARNATIONS.

Carnation Alvina, $10 per 100. Henry Eichholz, Waynesboro, Pa.

CARNATIONS, Rooted Cuttings.

New Introductions: Mrs. Chas. Knopf, light pink (Knopf); Ruby, crimson (Knopf); Georgia, white (Cockcroft); Mrs. J. C. Vaughan, white (Rudd); Bay State, variegated, (Roper); Pink Delight, (Dorner); Wanoka, crimson, (Wanoka Gh's); Apple Blossom, white, light pink markings (Wanoka Gh's); $12 per 100; $100 per 1,000. O. P. Bassett, scarlet, (Bassett & Washburn) $8 per 100; $60 per 1,000. Standard varieties, 100,000 cuttings, selected, strong stock, ready to ship:

White	Per 100	Per 1,000
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Pres. Seelye	4.00	35.00
Lloyd	4.00	35.00
White Enchantress	3.50	30.00
White Perfection	2.50	20.00
Pink:		
Splendor	4.00	35.00
Afterglow	6.00	50.00
Winona	6.00	50.00
Lawson-Enchantress	5.50	50.00
Welcome	4.00	35.00
Winsor	3.50	30.00
Aristocrat	3.50	30.00
Rose Pink Enchantress	2.50	20.00
Enchantress	2.50	20.00
Lawson	2.50	20.00
Beacon, red	3.50	30.00
Mrs. Patten, variegated	2.50	20.00

S. J. REUTER & SON, Inc., Westerly, R. I.

Carnations.—Rooted Cuttings.

Choice stock, well rooted, fresh from sand:

	Per 100	Per 1,000
White Perfection	$3.00	$25.00
White Enchantress	3.50	30.00
Lady Bountiful	1.50	12.50
White Lawson	1.50	12.50
Enchantress	2.00	15.00
Rose Pink Enchantress	2.00	15.00
Mrs. T. W. Lawson	1.50	12.50
Melody	1.50	12.50
Winsor	2.00	18.00
Beacon	3.00	25.00
Red Lawson	1.50	12.00
Victory	2.50	20.00
Cardinal	1.50	12.00
Harlowarden	2.00	15.00

H. W. BUCKBEE, Rockford, Ill.
Forest City Greenhouses. Rockford Seed Farms.

NEW WHITE CARNATION GEORGIA.

See display adv. in this issue.
STANDARD VARIETIES.

	Per 100	Per 1,000
Harvard	$6.00	$50.00
Enchantress	2.50	20.00
Winsor	3.50	30.00
Rose-Pink Enchantress	2.50	20.00
Beacon	3.50	30.00
Queen	2.00	18.00
Faust, scarlet	3.00	25.00
Victory	2.50	20.00
White Enchantress	3.50	30.00
Blush Queen	7.00	60.00
Victoria	4.50	40.00

James D. Cockcroft, Northport, L. I., N. Y.

CARNATIONS, Rooted Cuttings.

O. P. Basset,	Sarah Hill.
Mrs. Chas. Knopf.	White Perfection,
Mrs. J. C. Vaughan,	Winsor,
Ruby	Beacon,
Georgia.	Victory,
Apple Blossom,	Enchantress.
Pink Delight,	Mrs. Patten.

Send for complete list of all standard varieties and prices.

WM. SWAYNE,
Box 226. Kennett Square, Pa.

Carnations, Afterglow, Winona, Sarah Hill, $6 per 100; $50 per 1,000. Winsor, Aristocrat, Beacon, $3.50 per 100; $30 per 1,000. Rose Pink Enchantress, Victory, White Enchantress, White Perfection, $3 per 100; $25 per 1,000. Enchantress, Lawson, Robt. Craig, Lady Bountiful, Harry Fenn, Harlowarden, Patten, $2.50 per 100; $20 per 1,000. Queen, Lieut. Peary, $2.50 per 100; $18 per 1,000. Leo Niessen Co., 1209 Arch St., Philadelphia.

Carnations, Defiance, $6 per 100; $50 per 1,000. Beacon, White Enchantress, Winsor, $3 per 100; $25 per 1,000. Aristocrat, $4 per 100; $35 per 1,000. Rose Pink Enchantress, Victory, $3 per 100; $20 per 1,000. Lawson, $1.50 per 100; $12.50 per 1,000. Jensen & Dekema, 674 W. Foster Ave., Chicago.

Carnations. Peter Fisher, Ellis, Mass.

If you do not find what you need in our Ready Reference Department, write us about it.

Carnations, Pink Delight, Lucille, Mrs. Chas. Knopf, Ruby, $12 per 100; $100 per 1,000. O. P. Bassett, $8 per 100; $60 per 1,000. Andrew Carnegie, Splendor, Lawson-Enchantress, Sarah Hill, Pres. Seelye, Defiance, Afterglow, $6 per 100; $50 per 1,000. Aristocrat, White Enchantress, Beacon, $4 per 100; $35 per 1,000. Winsor, Enchantress, White Perfection, Rose Pink Enchantress, Melody, Victory, Welcome, Lady Bountiful, White Lawson, $3 per 100; $25 per 1,000. Chicago Carnation Co., Joliet, Ill.

Carnations, W. H. Taft, $12 per 100; $90 per 1,000. Enchantress, $1.75 per 100; $15 per 1,000. Pink Lawson, $1.50 per 100; $12.50 per 1,000. White Lawson, $2 per 100; $18 per 1,000. Variegated Lawson, $2.75 per 100; $25 per 1,000. Victory, $2.50 per 100; $20 per 1,000. Unrooted stock: Mrs. A. N. Nelson, Crusader, Boston Market, 60c per 100; $5 per 1,000. Enchantress, 80c per 100; $7.50 per 1,000. Lawson, pink, white and variegated, half price. Scheiden & Schoos, 60 Wabash Ave., Chicago.

Carnations, Pink Delight, $12 per 100; $100 per 1,000. White Perfection, $3 per 100; $25 1,000. Winona, $6 per 100; $50 per 1,000. Enchantress, Rose Pink Enchantress, Winsor, Red Chief, $3 per 100; $25 per 1,000. Defiance, Afterglow, Sarah Hill, $6 per 100; $50 per 1,000. Beacon, Aristocrat, Lady Bountiful, White Enchantress, Victory, $3 per 100; $25 1,000. F. Dorner & Sons Co., La Fayette, Ind.

Strong, well-rooted cuttings, Afterglow, Winona, Lawson-Enchantress, May, Sarah Hill, Pres. Seelye, $6 per 100; $50 per 1,000. White Perfection, White Enchantress, Red Nelson Fisher, Beacon, Rose Pink Enchantress, Winsor, $3 per 100; $25 per 1,000. Enchantress, Nelson Fisher, $20 per 1,000. A. C. Canfield, Springfield, Ill.

Carnations, Enchantress, Nelson Fisher, $15 per 1,000. Rose Pink Enchantress, $20 per 1,000. Winsor, Beacon, White Perfection, $25 per 1,000. Superior, $30 per 1,000. White Enchantress, $35 per 1,000. J. D. Thompson Carnation Co., Joliet, Ill.

Carnations, White Perfection, Beacon, $25 per 1,000. White Enchantress, Winsor, Rose Pink, Victory, $20 per 1,000. Sarah Hill, Afterglow, Winona, $50 per 1,000. Enchantress, $18 per 1,000. E. G. Hill Co., Richmond, Ind.

Carnations, Enchantress, Rose Pink Enchantress, White Perfection, Melody, White Lawson, $2.50 per 100; $20 per 1,000. White Enchantress, Winsor, Beacon, Victory, Aristocrat, Vesper, $3.50 per 100; $30 per 1,000. Splendor, $6 per 100; $50 per 1,000. East Sudbury Greenhouses, So. Sudbury, Mass.

Carnations, Bay State, Georgia, Mrs. J. C. Vaughan, $12 per 100; $100 per 1,000. Enchantress, Craig, Imperial, Lawson and standard kinds, $3 per 100. Chas. H. Totty, Madison, N. J.

Carnations, Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson, Harlowarden, Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Carnation Lloyd, from sand, $3 per 100; $25 per 1,000; from soil, $4 per 100; $35 per 1,000. John Bennett, Atlantic Highlands, N. J.

Carnation Afterglow, $6 per 100; $50 per 1,000. R. Witterstaetter, Station F, Cincinnati, O.

Field-grown carnation plants, 700 Harlowarden, $4 per 100. Cash with order. C. L. Van Meter, Monticello, Iowa.

Carnations wanted, 20,000 unrooted White Perfection, 20,000 Beacon. Lake View Rose Gardens, Jamestown, N. Y.

Carnation Georgia, R. C., $2 per doz.; $12 per 100. James D. Cockcroft, Northport, N. Y.

Carnations, Apple Blossom, Wanoka. Wanoka Greenhouses, Barneveld, N. Y.

Carnations, leading vars. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Carnation Marchioness, $10 per 100; $80 per 1,000. Bellamy Bros., Syracuse, N. Y.

Carnation Lucille, $12 per 100; $100 per 1,000. A. F. Longren, Des Plaines, Ill.

Carnations, Standard var. J. L. Dillon, Bloomsburg, Pa.

Carnations, Mrs. J. C. Vaughan and O. P. Bassett. Vaughan's Seed Store, Chi. and N. Y.

Carnations. Wood Bros., Fishkill, N. Y.

Carnations. A. M. Herr, Lancaster, Pa.

Carnations. Patten & Co., Tewksbury, Mass.

CHRYSANTHEMUMS.

Chrysanthemums, Golden Glow, 2¼-in. pots, ready for shift, $6 per 100; rooted cuttings, selection of 40 varieties, the cream of the commercial sorts. Write for list and prices. S. J. Reuter & Son, Inc., Westerly, R. I.

100,000 Mums, R. C., $1.25 per 100; $10 per 1,000; 2-in., $2 per 100; $18 per 1,000. Cash. L. J. Rowe, Titusville, Pa.

Chrysanthemums, hardy, $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Chrysanthemums, Golden Eagle, original stock, 2-in., $10 per 100. F. Dorner & Sons Co., La Fayette, Ind.

Golden Glow, from the original early stock; strong, 2½-in. plants, $6 per 100. C. C. Pollworth Co., Milwaukee, Wis.

Chrysanthemums, leading vars. Wood Bros., Fishkill, N. Y.

Chrysanthemums. Chas. H. Totty, Madison, N. J.

Chrysanthemum Golden Glow. Eli Cross, Grand Rapids, Mich.

Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

CINERARIAS.

Cineraria hybrida, 2½ and 3-in., $4 and $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Cinerarias, 2½-in., 300 for $5; 4-in., $5 per 100. J. C. Schmidt, Bristol, Pa.

Cinerarias, dwarf, 3-in., $6 per 100. Perennial Gardens Co., Toledo, O.

COLEUS.

Coleus, strong R. C., 25 varieties, including the new trailer, 70c per 100. Cash. The Kaber Co., La Porte, Ind.

Coleus, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Coleus, 10 varieties, 2¼-in., $2 per 100. Jos. H. Cunningham, Delaware, O.

Coleus, R. C., 60c per 100; $5 per 1,000. Byer Bros., Chambersburg, Pa.

Coleus, 10 varieties, R. C., 60c to 75c. Mosbæk Greenhouse Co., Onarga, Ill.

CUPHEAS.

Cupheas, R. C., 75c. Byer Bros., Chambersburg, Pa.

CYCLAMENS.

Cyclamens, well flowered, $6 and $12 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Cyclamens, finest giant strain from 3-in. pots, nice plants, full of buds, 7c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Cyclamens, asst., budded, 3-in., $8 per 100. Perennial Gardens Co., Toledo, O.

DAHLIAS.

Dahlias, novelties and standard varieties, true to name. A choice list of the best introductions. Send for catalogue of dahlias, hollyhocks, hardy plants. W. W. Wilmore, Box 382, Denver, Colo.

Dahlias, leading vars. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

DAISIES.

Daisies, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Paris daisies, giant white and yellow, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Daisies, $2.50 per 1,000. J. C. Schmidt, Bristol, Pa.

DEUTZIAS.

Deutzia Lemoine, pot-grown, 7-in., 25c each; $2.50 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

DRACENAS.

Dracæna indivisa, transplanted, 10 to 12 inches, $2.50 per 100; $20 per 1,000; 4-in. pots, $35 per 1,000. Palm Washingtonia robusta, 3-in., $6 per 100, f. o. b. Los Medanos Nursery, Cornwall, Calif.

Dracæna terminalis, $9, $12 and $18 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

Dracæna indivisa, 4-in., $12; 5-in., $20. Mosbæk Greenhouse Co., Onarga, Ill.

FERNS.

Ferns. Boston, 2¼-in., $3; 3-in., $6; 4-in., $12; 5-in., $25; 6-in., $40. Piersoni and Boston, 6-in., $40; 8-in., $100; Scottii, Whitmani and Elegantissima, 2¼-in., $5; 3-in., $10; 6-in., $75. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, Boston, 6-in., 50c; 7-in., 75c; $1, $1.25. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c to $1. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50. Amerpohlii, 5½-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ferns, Boston, 5-in., 30c each. Geo. M. Emmans, Newton, N. J.

Ferns. A few fine specimen plants of Boston, Piersoni and Elegantissima in large sizes. Write for prices and description. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns. 100 Whitmani, 2½-in., $5 per 100; 100 3-in., $12; 75 Boston, 3-in., $6 per 100; 75 Piersoni, 3-in., $8 per 100; 75 2½-in., $5 per 100; 50 Elegantissima, 2½-in., $5 per 100, Perennial Gardens Co., Toledo, O.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Ferns, Adiantum Farleyense, $18 per doz.; large cut fronds, $10 per 100. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Ferns, assorted, for ferneries, $3 per 100; $30 per 1,000. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Boston, Scottii, Whitmani, Farleyense, all sizes. Samuel A. Woodrow, 53 W. 30th St., New York.

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Feverfew, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Ficus, 5½ and 6-in., 25c, 30c and 40c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Rubbers. P. J. Berckmans Co., Augusta, Ga.

FORGET-ME-NOTS.

Forget-me-nots, 2-in. pots, $2.25 per 100; $20 per 1,000. Geo. B. Windler, 4059 Delmar Ave., St. Louis, Mo.

FUCHSIAS.

Fuchsias, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Fuchsias, 8 kinds, R. C., $1. Byer Bros., Chambersburg, Pa.

GERANIUMS.

Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

Geraniums, standard varieties, R. C., $1.75 per 100; $15 per 1,000; 2¼-in., $3 per 100; $25 per 1,000. Mosbæk Greenhouse Co., Onarga, Ill.

Geraniums, Nutt, Jean Viaud and rose geraniums, 2¼-in., $2.50 per 100. Buffalo Cut Flower Co., 495 Washington St., Buffalo, N. Y.

Geraniums, single and dbl. Grant, Buchner, etc., 2-in., 2c. Rose geranium, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Geraniums, S. A. Nutt, 2-in., $2 per 100; $20 per 1,000. O. B. Knuth, 11801 St. Clair Ave., Cleveland, O.

Geraniums, 2-in., $2 per 100 up. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Geraniums, 2¼-in., $2.50 per 100; $22 per 1,000. S. D. Brant, Clay Center, Kans.

Geraniums, 2½-in., my selection, $3 per 100. Jos. H. Cunningham, Delaware, O.

Geraniums. A. M. Herr, Lancaster, Pa.

GLOXINIAS.

Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

GREENS.

Greens, galax, green and bronze, 50c per 1,000. Leucothoe, green 20 to 36 ins., $2.50 per 1,000; 10 to 20 ins., $1.25 per 1,000; bronze, extra length, $3 per 1,000. Fancy and dagger ferns, $1 per 1,000. Rhododendron sprays, $3 per 1,000. Kalmia or mountain laurel, $3 per 1,000. T. J. Ray & Co., Elk Park, N. C.

Greens, fancy and dagger ferns, $1.75 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $7.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

Greens, bronze and green galax, 50c per 1,000. Fancy and dagger ferns, $1 per 1,000. Green leucothoe sprays, $2.50 per 1,000; bronze, $4. Rhododendron sprays, $2 per 1,000. Mountain laurel sprays, $2 per 1,000. J. N. Pritchard, Elk Park, N. C.

Greens, hardy cut evergreens, etc. Henry M. Robinson & Co., 15 Province St., Boston.

If you do not find what you need in our Ready Reference Department, write us about it.

Greens, evergreens, fancy and dagger ferns, bronze and green galax. Geo. Cotsonas & Co., 53 W. 28th St., New York.

Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala.

Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, Southern wild smilax, case 50 lbs., $2. J. A. Rumbley, Evergreen, Ala.

Greens, smilax, ferns, palm leaves, etc. John P. Scherer, Union Hill, N. J.

HARDY PERENNIALS

Fine selection of Hardy Perennials. Send for descriptive list. Mosbæk Greenhouse Co., Onarga, Ill.

Hardy pinks, R. C., 75c. Byer Bros., Chambersburg, Pa.

HELIOTROPES.

Heliotrope, $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Heliotrope, 4 of the best, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Heliotrope, R. C., $1. Byer Bros., Chambersburg, Pa.

HYDRANGEAS.

American Everblooming hydrangeas, strong field-grown plants, 15 inches and up, $2 per doz.; $15 per 100. Field-grown plants, 8 to 12 inches, $1.50 per doz.; $10 per 100; $90 per 1,000. Lists free. The E. Y. Teas Co., Centerville, Ind.

Hydrangeas. W. & T. Smith Co., Geneva, N. Y.

IRISES.

German iris, 25 named varieties, $2.50 per 100; mixed, $2 per 100. Elmhurst Nursery, Argentine, Kansas.

Iris Germanica and Kæmpferi. E. S. Miller, Wading River, L. I., N. Y.

IVIES.

Ivy, hardy English, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

LILACS.

Lilacs, pot-grown for forcing, Chas. X, Mme. Casimer Perier, Bertha Dammann, Mme. Lemoine, well branched, with buds, $1 each; $10 per doz. Vaughan's Seed Store, Chicago and New York.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

Lily of the valley pips. J. M. Thorburn & Co., 33 Barclay St., New York.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., 50c per doz.; $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

MOSS.

Sphagnum moss, 1 bale of 5 bbls., $1.60; 5 bales, $7.25; 10 bales, $13.50; 1 bale of 7½ bbls., $2.25; 5 bales, $10; 10 bales, $18; 1 bale of 10 bbls., $3; 2 bales, $5.50; 5 bales $12.50. Brookville Moss and Peat Co., Brookville, N. J.

Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Johnson Seed Co., 217 Market St., Philadelphia.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn, Mill Track, $6 per 100 lbs. W. C. Beckert, N. S., Pittsburg, Pa.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery Stock. Forest, shade and ornamental trees, shrubs, seeds, etc., by the million at extremely low prices to close out. Balm of Gilead, Carolina Poplar, Red Bud (Judas tree), Tulip, Poplar, Sweet Gum, Ash, Allanthus, Persimmon, Locust, Buckeye, Walnuts, Dogwoods, Hamamelis (witch hazel). Altheas, Amorphia, Yuccas, Calycanthus, etc.; also Tree Seeds. We have a large stock and are making low prices to clear land by April 1. Send for trade list. Forest Nursery Co., McMinnville, Tenn.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Planes, straight, transp., 10 to 12 ft., $10 per 100; 12 to 14 ft., $12 per 100. Conifers. C. Kerkvoorde, Wetteren, near Ghent, Belgium.

Nursery stock, fruit and shade trees, shrubs, evergreens, tree roses. W. & T. Smith Co., Geneva, N. Y.

Nursery stock, Forsythia, 18 to 24 in., well rooted, $2 per 100. Tamarix, 4 to 5 ft., $6 per 100. Elmhurst Nursery, Argentine, Kans.

Nursery stock, arbor vitæ (Thuya occidentalis) 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, trees, shrubs, roses, evergreens and hardy plants. Mount Hope Nurseries, Box Q, Rochester, N. Y.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock. Storrs & Harrison, Painesville, O.

Nursery stock, conifers, Koster spruce, etc. Kallen & Lunnemann, Boskoop, Holland.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids, all commercial cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Kentia Bel., 2¼-in., 4 leaves, 8 to 10 ins., $1.50 per doz.; $10 per 100; $90 per 1,000; 3-in., 5 lvs., 12 ins., $2 per doz., $15 per 100; $140 per 1,000; 6-in., 6 lvs., 20 to 24 ins., $1 each; 6-in., 6 to 7 lvs., 26 to 28 ins., $1.50 each; 6-in., 6 to 7 lvs., 32 to 34 ins., $2.50 each; 11-in. tubs, 7 to 8 lvs., 6 ft., $20 each; 11-in., 8 to 9 lvs., 7 to 8 ft., $25 each; 11-in., 8 to 9 lvs., 8 ft., $30 each. Kentia Fors., 2¼-in., 4 lvs., 8 to 10 ins., $2 per doz.; $15 per 100; $140 per 1,000; 3-in., 5 to 6 lvs., 15 ins., $2.50 per doz.; $20 per 100; $175 per 1,000; 4-in., 5 to 6 lvs., 15 ins., $5 per doz.; $40 per 100; 6-in., 6 lvs., 28 to 30 ins., $1 each; 6-in., 6 lvs., 34 to 36 ins., $1.50 each; 7-in., 6 to 7 lvs., 36 to 40 ins., $2.50 each; 7-in., 7 to 8 lvs., 36 to 40 ins., $3 each; 8-in., tubs, 6 to 7 lvs., 42 to 44 ins., $4 each; 9-in., 6 to 7 lvs., 5½ ft., $8 each; 10-in., 6 to 7 lvs., 6 ft., $10 each; 12-in., 6 to 7 lvs., 8 to 9 ft., $17.50 each; 12-in., 7 lvs., 6 to 7 ft., $20 each. Made-up Kentia Fors., 3 plants in tub, 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 8-in., 40 to 42 ins., $4; 8-in., 42 to 48 ins., $5; 12-in., 6 ft., $15; 12-in., 8 ft., $17.50. Kentia Sanderiana, 4-in., 3 to pot, 15 to 18 ins., 75c each; 5-in., 18 to 20 ins., $1 each. Henry A. Dreer, Philadelphia.

Palms, Areca lutescens, 4-in., 3 plants in pot, 25c Kentia Bel., 5½-in., 25 to 30 ins., 50c to 60c each; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each; 5½-in., 20 to 25 ins., 50 to 60c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, Kentia Bel., 7-in. 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Palms, Kentias, latanias. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, strong, transplanted from fall, almost ready to bloom, finest strains, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Choicest strain of seedling pansies, $3 per 1,000 or 50c per 100. Strong plants ready to transplant. Joy Floral Co., Nashville, Tenn.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

PANDANUS.

Pandanus Veitchii, 6-in., $18 per doz.; specimens, $3 to $7.50 each. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Pandanus. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

PETUNIAS.

Petunias, Dreer's superb single, 2-in., $2 per 100. R. Vincent, Jr., & Sons, White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, Marvel, R. C., $1; 2¼-in., $2.50. Mosbæk Greenhouse Co., Onarga, Ill.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

POINSETTIAS.

Poinsettias, 35c each; $4 per doz. Samuel A. Woodrow, 53 W. 30th St., New York.

PRIMULAS.

Primula Chinensis in bloom, 5½-in., $2.50 per doz. Obconica, 4-in., 10c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Primroses. Chinese, 2½-in., $5 per 100. Perennial Gardens Co., Toledo, O.

PRIVET.

AMOOR RIVER PRIVET, 300,000, all sizes. Valdeslan Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

Rhododendrons, assorted colors, our selection, 8 to 12 buds, $1 each; $9 per doz.; 12 to 18 buds, $1.25 each; $12 per doz.; 18 to 24 buds, $2 each; $20 per doz. Vaughan's Seed Store, Chicago and New York.

Rhododendrons. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Rhododendrons. Kallen & Lunnemann, Boskoop, Holland.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons Jacs Smits, Naarden, Holland.

ROSES.

Roses, for forcing, field-grown, Crimson Rambler, Dorothy Perkins, Lady Gay, XXX grade, $12 per 100; No. 1 grade, $8 per 100. Hybrid perpetuals, A. Colomb, Anne de Diesbach, Baby Rambler, Clio, Coquette des Alps, Frau Karl Druschki, Gen. Jacq., Magna Charta, M. Dickson, Mme. G. Luizet, Mrs. Laing, Mar. of Lorne, etc., $10 per 100. Grafted roses; Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses. White Baby Rambler, 2½-in., $1 per doz.; $6 per 100; 3-in., $1.50 per doz.; $10 per 100; 4-in., $2.50 per doz.; $20 per 100. Baby Dorothy, 3-in., $2 per doz.; $15 per 100; 4-in., $3 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, dormant field-grown, Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, F. Levet, Jacq., Prince C. de Rohan, Magna Charta, U. Brunner, Giant of Battles, etc., $16 per 100; $1.50 per 1,000. Dingee & Conard Co., West Grove, Pa.

Roses, low budded on Rosa canina, our selection, $4 per 100; purchaser's selection, $5 per 100. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

If you do not find what you need in our Ready Reference Department, write us about it.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots, $2 per doz.; $12 per 100; 2-yr., 2 to 3 ft., budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots, $3 per doz.; $15 per 100; 3-yr., 3 to 5 ft., budded, $3 per doz., $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins; Dormant 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz., $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown. 1st size, budded, $2.50 per doz.; $16 per 100; $150 per 1,000; 2nd size, grafted, $2 per doz.; $12 per 100; $100 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1-yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 5-in., 35c each; $3.50 per doz.; $25 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Vaughan's Seed Store, Chicago and New York.

ROSES. Strong, well rooted cuttings, $2 per 100; $17.50 per 1,000:
Bride, Golden Gate, Chatenay,
Bridesmaid, Richmond, Uncle John.
H. W. BUCKBEE, Rockford, Ill.
Rockford Seed Farms. Forest City Greenhouses.

Roses, field-grown, Newport Fairy, 1-year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses. C. Soupert, 2-yr., field-grown, $18 per 100. Anna Mueller, $15. Crimson Rambler, $12, $16, $18. Perennial Gardens Co., Toledo, O.

Rose White Killarney, $30 per 100; $250 per 1,000. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Roses, Am. Beauty, R. C., $3 per 100; $25 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Roses. White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, 400 sorts, 2½ and 4-in. Leedle Floral Co., Springfield, O.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses for forcing. W. & T. Smith Co., Geneva, N. Y.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses. Chas. H. Totty, Madison, N. J.

SALVIAS.

Salvias, 6 of the best, R. C., $1. Mosbæk Greenhouse Co., Onarga, Ill.

Salvia splendens, Bonfire, R. C., 75c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias. R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

SEEDS.

Seeds, alyssum, Vaughan's Little Gem, lb., $3.50; tr. pkt., 10c; oz., 35c. Asparagus plumosus nanus, 100 seeds, 50c; 1,000 seeds. $3.50; 5,000 to 10,000 seeds, $3.25 per 1,000. Begonias, Berna, tr. pkt., 15c. Salmon Queen, Semperflorens, Red Lubecca, tr. pkt., 25c. Lobelia, Bedding Queen, tr. pkt., 15c; ⅛ oz., 25c; oz., $1.50; Speciosa, tr. pkt., 10c; oz., 55c: Hambrugin, tr. pkt., 25c; Maurandya, ¼ oz., 25c; tr. pkt., 10c; oz., $1. Petunias, Vaughan's best mixture, large flowering, tr. pkt. (1,000 seeds) 50c; 3 pkts., $1.25; Howard's Star, tr. pkt., 10c; oz., 80c; Snowball, ⅛ oz., 25c; tr. pkt., 10c; Salvia Splendens, Clara Bedman or Bonfire, tr. pkt., 25c; oz., $2.50; Salvia Zurich, ¼ oz., $1.25; tr. pkt., 25c. Smilax, new crop, lb., $3; tr. pkt., 10c; oz., 25c. Stocks, Prince Bismarck, tr. pkt., 25c. Thunbergia, mixed, tr. pkt., 10c; oz., 40c. Verbenas: Defiance, tr. pkt., 10c; oz., 80c; Firefly, tr. pkt., 15c; oz., $1.20; Mammoth mixed, tr. pkt., 10c; oz., 80c; white, tr. pkt., 15c.; oz., $1; rose and carmine shades, tr. pkt., 25c; oz., $2; purple, tr. pkt., 25c; oz., $2; Mayflower, tr. pkt., 15c; oz., $1; choice mixed and Venosa, tr. pkt., 5c; oz., 20c; Lemon (citriodora), tr. pkt., 20c; oz., $1.25; Vaughan's Best Mixture, tr. pkt., 25c; ¼ oz., 50c; oz., $2; 2 ozs., $3.50. Vaughan's Seed Store, Chicago and New York.

Seeds, Stokes' Bonny Best Early Tomato, pkt., 10c; oz., 50c: ¼ lb., $1.75; lb., $6, postpaid. Stokes' Seed Store, 219 Market St., Philadelphia.

Seeds, The Crego aster, trade pkt., $1; ½ oz., $4.50; oz., $8. G. S. Crego, 693 E. 10th St., Portland, Ore.

Seeds, Cucumber: Long White Spine, Arlington White Spine, Klondike, 50c per lb. Chicago pickling, 40c per lb. Australian Brown onion, 75c per lb., Yellow Globe Danvers, 85c per lb.; Giant Gibraltar, $1 per lb., Iceberg lettuce, 45c per lb. Burrel's Gem muskmelon, 60c per lb. Chilian watermelon, 40c per lb. Columbus muskmelon, 35c per lb.; Jenny Lind muskmelon, 35c per lb. Aggeler & Musser Seed Co., 113 N. Main St., Los Angeles, Calif.

Seeds, Salvia Bonfire, $2.25 per oz.; tr. pkt., 25c; Splendens, $1 per oz.; tr. pkt., 15c; Zurich, 1-16 oz., $1.25; tr. pkt., 50c. Verbenas, oz., $2; tr. pkt., 25c. Lobelia Crystal Palace, tr. pkt., 25c; Speciosa, tr. pkt., 10c. Begonia Vernon, 1-16 oz., 50c; tr. pkt., 25c; Erfordii, tr. pkt., 25c; Semperflorens magnifica, 1-32 oz., $1.50; tr. pkt., 50c. Stocks, Cut and Come Again, ⅛ oz., 50c; tr. pkt., 25c. Primula obconica gigantea, 4 colors and mixed, tr. pkt., 50c. Asparagus plumosus, $4 per 1,000. Sprengeri, 75c per 1,000. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Seeds. Stocks, Cut and Come Again, asst. colors, tr. pkt., 25c; Dwarf Bouquet, tr. pkt., 25c; Snowflake, tr. pkt., 50c; Petunia, fringed, single mixed, tr. pkt., 50c; double mixed, tr. pkt., $1. W. O. Beckert, 103 Federal St., North Side, Pittsburg, Pa.

Seeds, Begonia Gracilis Luminosa, Erfordi; Zangen's Bedding Queen; Salvia Zurich, Fireball, King of the Scarlets, tr. pkt., 50c; 6 pkts., $2.50. O. V. Zangen, Hoboken, N. J.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, onion, beet, tomato, cabbage, cucumber, sweet corn, seed potatoes and onion sets. S. D. Woodruff & Sons, 82-84 Dey St., New York.

Seed pansy, Trimardeau, 2-3 oz., $1.50; Cassier, 2-3 oz., $2.50; Germania, 2-3 oz., $2.50; Spotted Odier and Bugnots, 2-3 oz., $2. C. Schwanecke, Oschersleben, Germany.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds, natural grass, clover, agricultural and forest tree seeds, grass seed mixtures. Conrad Appel, Darmstadt, Germany.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seed, Salvia Zurich, Zurich grown, 50c tr. pkt. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, giant flowering pansy, $4 per oz. Jos. H. Cunningham, Delaware, O.

Onion seeds. We are extensive growers and dealers. Schilder Bros., Chillicothe, O.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton C. Zvolanek, Boundbrook, N. J.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, choice German flower seeds. Fredrick Roemer, Quedlinburg, Germany.

Seed, onion Southport White Globe 1908 crop, Laughlin Seed Co., Kenton, O.

Seeds, field seed corn. Ratekin's Seed House, Shenandoah, Iowa.

Seeds, Bermuda onions. Wildpret Bros., Port Orotava, Teneriffe, Canary Islands.

Seeds. D. Landreth Seed Co., Bristol, Pa.

Contract Growers.

Seeds, new sweet peas: Mrs. Walter Wright Spencer, Senator Spencer, Black Knight Spencer, Gaiety Spencer, Prince of Wales Spencer, Juanita Spencer, Blanch Ferry Spencer, Ruby Spencer, New nasturtiums: Dwarf Orange var. foliage, Tall Croesus, Tall Scarlet, Tall Salmon var. foliage. Dwarf var, Ivy Leaf Princess, Golden Rose (gold leaved), Lilliput Lady Cherry. Routzahn Seed Co., Arroyo Grande; Calif.

Seeds, Growers on contract of Muscatine Island vegetables and plants. Specialties: Peppers, tomatoes, asparagus. J. E. Hoopes & Co., Muscatine, Iowa.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet pea, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seed beans. F. L. Hogue, Carpinteria, Calif. Grower for the wholesale trade only.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SMILAX.

Smilax, nice plants, early fall sowing, just right for carrying forward, 50c per 100; $3 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spireas. Jacs Smits, Ltd., Naarden, Holland.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection. $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, Lemon, Aloysia citriodora, 40c per doz.; $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Verbenas and lemon verbenas, 2-in., $2 per 100. R. Vincent, Jr., & Sons, White Marsh, Md.

Verbenas, R. C., 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Verbenas. J. L. Dillon, Bloomsburg, Pa.

VINCAS.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vinca variegated, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, field-grown, $4 per 100. W. W. Coles, Kokomo, Ind.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

VIOLETS.

Violets. Wood Bros., Fishkill, N. Y.

WHOLESALE CUT FLOWERS.

Commission Dealers.

Abrahamson, Wm. W., 21 Wabash Ave., Chicago.

Amling, E. C., 32-36 Randolph St., Chicago.

Berning, H. G., 1402 Pine St., St. Louis.

Buffalo Cut Flower Co., 495 Washington St., Buffalo, N. Y.

Deamud, J. B., Co., 51 Wabash Ave., Chicago.

Ford Bros., 48 W. 28th St., New York.

Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., N. Y.

Guttman, Alex. J., 34 W. 28th St., New York.

Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

Hunt, E. H., 76 Wabash Ave., Chicago.

Kennicott Bros. Co., 48-50 Wabash, Chicago.

Kessler Bros., 50 W. 28th St., New York.

Keuhn, C. A., 1122 Pine St., St. Louis.

Krueger Bros., Toledo, O.

Langjahr, Alfred H., 55 W. 28th St., N. Y.

McCallum & Co., 937 Liberty Ave., Pittsb'g. Pa.

McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.

If you do not find what you need in our Ready Reference Department, write us about it.

McKellar, Chas. W., 51 Wabash Ave., Chicago.
McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.
Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.
Millang Bros., 41 W. 28th St., New York.
Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.
Murphy, Wm., 311 Main St., Cincinnati, O.
Niessen Co., Leo, 1208 Arch St. Philadelphia.
N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.
Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.
Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.
Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.
Pollworth, C. C., Co., Milwaukee, Wis.
Randall, A. L., Co., 19 Randolph St., Chicago.
Raynor, John I., 49 W. 28th St., New York.
Rice Bros., 128 N. 6th St., Minneapolis, Minn.
Robinson, Henry M. & Co., 11-15 Province St., Boston.
Schreiner, Nicholas C., 41 W. 28th St., N. Y.
Seligman, John, 56 W. 26th St., New York.
Sheridan, Walter F., 39 W. 28th St., N. Y.
Smith & Co., W. C., 1316 Pine St., St. Louis.
Traendly & Schenck, 44 W. 28th St., N. Y.
Vaughan & Sperry, 58-60 Wabash Ave., Chicago.
Welch Bros., 226 Devonshire St., Boston.
Winterson, E. F. Co., 45-49 Wabash, Chicago.
Young, A. L., & Co., 54 W. 28th St., N. Y.
Young, John, 51 W. 28th St., N. Y.
Young & Nugent, 42 W. 28th St., New York.
Zech & Mann, 51 Wabash Ave., Chicago.

Growers.

Bassett & Wasburn, 76-78 Wabash, Chicago.
Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.
Bruns, H. N., 1409-11 W. Madison, Chicago.
Budlong, J. A., 37-39 Randolph St., Chicago.
Elliott, W. H., Brighton, Mass.
Hill, The E. G. Co., Richmond, Ind.
Jensen & Dekema, 674 W. Foster Ave., Chicago.
Peacock Dahlia Farms, Atco, N. J.
Poehlmann Bros. Co., 35-37 Randolph, Chicago.
Reinberg, Peter, 35 Randolph St., Chicago.
State Nursery Co., Helena, Mont.
Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.
Weiland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.
Woodrow, Samuel A., 53 W. 30th St., N. Y.

RETAIL CUT FLOWERS.

Albany, N. Y.—H. G. Ayers, 11 N. Pearl St.
Anderson, S. C.—The Anderson Floral Co., 533 Marshall Ave.
Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.
Baltimore, Md.—Z. D. Blackistone, 1601 Eutaw Pl.
Boston, Mass.—Hoffman, florist, 59 Massachusetts Ave.
Boston—Frank H. Houghton, 396 Boylston St.
Brooklyn, N. Y.—Robt. G. Wilson, Fulton St. and Green Ave.
Buffalo, N. Y.—Palmer's.
Chicago—Hauswirth, Florist, Auditorium Annex.
Chicago—Wittbold, Florist, 1657 Buckingham Place.
Chicago—The Floral Shop (Schnell & Poppe), 705 W. Madison St.
Cincinnati, O.—Julius Baer, 138 E. 4th St.
Cleveland, O.—The J. M. Gasser Co., Euclid Ave.
Dayton, O.—Matthews, 16 W. 3d St.
Colorado Springs, Colo.—Frank F. Crump.
Denver, Colo.—Daniels & Fisher.
Denver, Colo.—The Park Floral Co.
Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.
Galveston, Tex.—Mrs. M. A. Hanson.
Helena, Mont.—State Nursery Co.
Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.
Kansas City, Mo.—Geo. M. Kellogg Estate, 906 Grand Ave. Also Pleasant Hill, Mo.
Kansas City—Samuel Murray, 1017 Broadway.
London, Eng.—Wills & Segar, Onslow Crescent, Kensington.
Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.
Louisville, Ky.—J. Schultz, 644 4th Ave.
Nashville, Tenn.—Joy Floral Co., 610 Church St.
New Orleans, La.—U. J. Virgin, 833 Canal St.
New York—M. A. Bowe, 1294 Broadway.
Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.
Owatonna, Minn.—Clinton Falls Greenhouses.
Philadelphia, Pa.—Robt. Kift, 1725 Chestnut St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.
San Francisco, Calif.—J. B. Boland, 60 Kearny St.
St. Louis, Mo.—Fred C. Weber, 4320-28 Olive St.
St. Louis, Mo.—Young's, 1406 Olive St.
St. Paul, Minn.—Holm & Olson.
Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.
Toledo, O.—Krueger Bros.
Toronto, Ont.—Dunlop's. 96 Yonge St.
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Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

Rococo boilers and hot water heaters. American Heater Foundry Co., West Chicago.

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Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Sunlight double glass hotbed sash. Sunlight Sash Co., 506 Floyd St., Louisville, Ky.

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Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

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Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

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Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

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Standard mailing tubes. Standard Mfg. Co., Coatsville, Pa.

Wire work, second to none. Wm. H. Woerner, 520 N. 16th St., Omaha, Neb.

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Hammond's Greenhouse White, a paint for service. Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N. Y.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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Stuttle's patent pipe clamp. Henry Stuttle, Batavia, Ill.

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Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

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Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

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Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard azalea pots. The Keller Pottery Co., 213-223 Pearl St., Norristown, Pa.

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Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburgh, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

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Supplies and wire designs, etc. Henry Kusik & Co., 73 Western Ave., Minneapolis, Minn.

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Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

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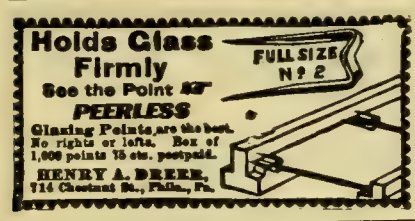

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The regular monthly meeting of the Horticultural Society was held January 29. Owing to weather conditions the attendance was rather small. Abel Weeks, our new president, occupied the chair for the first time and made a promising start. The secretary's report on the annual dinner was very favorable and a vote of thanks was extended to Mrs. Driscoll of the Florence hotel for her hospitality. The prize for this meeting offered by James Stuart was for two primulas any varieties, and was awarded to Thomas Aitchison, gardener to Mrs. H. Siegel, Mamaroneck, who exhibited two fine specimens which also received a cultural certificate. A superb vase of White Killarney rose exhibited by F. R. Pierson Co., attracted much attention and was awarded a certificate of merit. Discussion on exhibits brought the meeting to a close.

W. J.

Newark, N. J.

BUSINESS IMPROVING.

The market has improved considerably the past week, and prices are all at a satisfactory basis. American Beauty roses are bringing 75 cents and in many cases $1 for specials. Bride and Bridesmaid are bringing 3 to 10 cents. Carnations are coming in steadily, and selling well. There are very few Roman hyacinths or Paper White, but yellow narcissi are coming in rather fast the last few days, yet holding a fairly stiff price. Tulips can be now had in all colors and move well from two to four cents.

McDonough reports a very busy week in funeral work.

D. A. M.

OIL CITY, PA.—Fire occurred at R. Reynders' greenhouses last week destroying the entire place.

NASHVILLE, TENN.—Applications were received for amendments to the charters of the D. S. Simpson Floral Co. of Bristol, seeking to change its corporate name to the Bristol Floral Co.

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Glass slips in; no putty; cannot work loose; easily repaired.
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HARRISBURG, PA.

Red Bank, N. J.

The first annual ladies' night of the Monmouth County Horticultural Society took place in Redmen's hall February 3. The tables were beautifully decorated and they were a revelation to the ladies. Thirty tables were set for progressive euchre and 35 prizes were awarded. At about 10 o'clock supper was served, speeches were made, songs were sung and general merry making took place. After the inner man was satisfied dancing began and about 150 were swinging their dancing apparatus and some of them must have had feet big enough to cover a square yard, as the writer of this is bearing the marks today—naturally ladies always excepted. It lasted until late in the forenoon, and somebody was heard to say, "I am sure we will be late for breakfast."

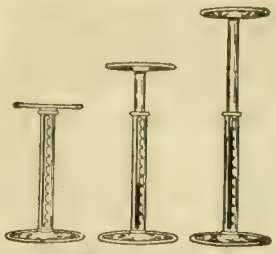
MENU.

Roasts.
Turkey a la Turner. Butterback Ham.
Salads.
Chicken au Monmouth.
Potato Salad Dowlensil Sweet William.
Entrees.
Celery Halesonia Loganitum Cranberry.
Olives Hicks Hybrida. Metzdorf Gherkins.
Palmer Love-in-a-Mist Desserts.
Ice Cream au Kettelful.
Banana Kennedy Seedling.
Orange Walshii Bauer of Grapes.
T. J. Coffee la Rielly. Fromage de Mears.
Punch Bowl.
Chrysan the Mum's Extra Dry.
Get the Hose.

B.

MILFORD, CONN.—The R. H. Comstock Co. has filed a certificate of incorporation. The capital stock is $10,000, with $8,000 paid in. The incorporators are Roger H. Comstock and Harry L. Hungerford of this city, and Chester Comstock, of Ridgewood, N. J.

POUGHKEEPSIE, N. Y.—The Dutchess County Horticultural Society held its annual meeting and election of officers for the ensuing year January 29. The following were the officers elected: C. J. Reynolds, president; James Blair, vice-president; Geo. Sweet, treasurer, and H. G. Cottam, secretary. The treasurer's report for 1908 was read and showed receipts to the amount of $778.28.



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain
All Heights, from 6 to 48 inches.
No other stand is so simple and easily adjusted.
Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**
PHILADELPHIA OFFICE:
Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

WIZARD BRAND MANURES

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE
Pure - Uniform - Reliable
A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE
Easy to Handle and Apply
Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO
Mention the American Florist when writing

THE BEST Bug Killer and Bloom Saver

For **PROOF** Write to
P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

Garman's Antipest

INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.
This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.
PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Unrivalled for all Purposes.
THOMSON'S Vine, Plant and Vegetable MANURE

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES
The result of many years' **Practical Experience.** Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants. **Freight paid on quantities.**
Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.
WM. THOMSON & SONS, LTD.,
Tweed Vineyard, Clovenfords, Scotland.
Sold by the leading American seedsmen.

Green Flies and Black ones too
are easy to kill with
The Fumigating Kind Tobacco Powder
$3.00 per bag 100 lbs.
Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?
THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

"Natural Guano" PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
Write us for prices and particulars.
Natural Guano Company, Aurora, Ill.

Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE.

Furnishes the Most Nicotine for the Money!

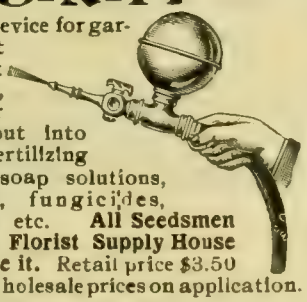
Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

By far the CHEAPEST.

JUST NOTE PRICES!

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

U-N-I-T



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J. F. CASS MFG. CO., Detroit, Mich.

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Plant Sprinkler
Putty Bulb.

VAUGHAN'S SEED STORE, CHICAGO NEW YORK

Spraying Pump

The Crestline "Sunshine" has solid brass cylinders. Can be used as all-'round pump. Free circular. Ask for information on any pumping problem.

We make pumps for all uses.

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Pumps, Sinks, Hose, **Crestline, Ohio**

Garden City Sand Co.

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Phone: Main 4827.

BUILDING AND PROPAGATING SANDS,
Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,
R. I. W. DAMP RESISTING PAINT.

Stop the Wind in the Greenhouse.

WORDS FROM TWO EASTERN MEN.

"Your Paint and Putty saved us, for the time being at any rate, a complete rebuilding. We used a barrel of the Twemlow Putty — it is great stuff."

"Your Twemlow's Old English Liquid Putty is certainly great stuff. Two winters ago there were two houses which the high winds shifted a little during a cold spell, which left quite an opening between the glass and the woodwork. It was zero weather and too cold to do anything outside. I was puzzled to know what to do. I took the putty bulb and went over it on the inside, just to tide over the cold weather, **but to my surprise** it staid and is as good to-day as if put on under the most favorable circumstances.

"I write this because it may be of some service to you to know it."

SLUG SHOT KILLS SOW BUGS Sold by Seedsmen.

Hammond's Paint & Slug Shot Works, Fishkill-on-Hudson, N. Y.

H. KUSIK. O. R. ECKHARDT

HENRY KUSIK & CO.

Wholesale Florists' Supplies.
Manufacturers of WIRE DESIGNS.

Ask for Catalogue. **73 Western Ave., MINNEAPOLIS, MINN.**

Montreal.

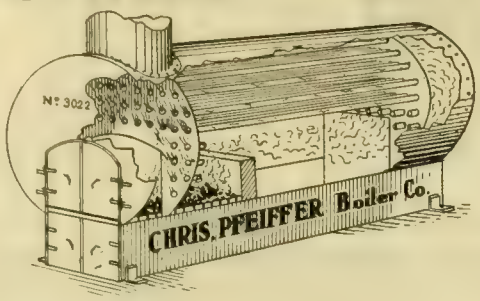
Trade last week was not very active which, no doubt, was due largely to an oversupply. Retailers are seemingly inclined to judge their trade by the amount of stock left over, not taking into consideration the unusually large and fine lot coming in. Roses are improving with the longer days and bright weather. Very little snow has fallen since New Year's. There is much complaint about sleepy carnations shipped by western growers, whole consignments on arrival have to be thrown into the barrel; others arrive in the usual good condition. There has been a good deal of discussion and investigations going on for some time but so far a definite cause has not been formed satisfactory to all parties. The growers claim that the goods always leave them in good condition and consequently will not stand for any loss. The best solution of the problem is to encourage home production as home grown flowers do not show the same fault.

At the February meeting of the Gardeners' and Florists' Club the lecture "How Plants Feed and Grow" by Prof. W. Lochead of MacDonald College, St. Anne de Bellevue, was the principal feature. The professor explained his subject in great detail, these details being shown with greatly enlarged charts or photographs. Harry Lang was elected a member.

Geo. Stanford is on the sick list.

LUCK.

CHRIS. PFEIFFER BOILER CO. 66-68 Michigan St, CHICAGO.



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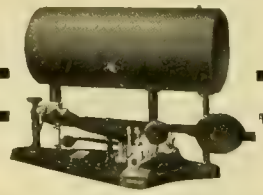
WE BUILD A SPECIAL HOT WATER BOILER SHIPPED READY FOR OPERATION. NO BRICK WORK REQUIRED.

Repairing done on all kinds of Greenhouse Boilers on short notice.

Made of Best Soft Steel. **Phones: Main 4361 - 4399.**

30 DAYS FREE TRIAL
will convince you that the
Morehead Return Steam Trap
is just what you need.



Working automatically it insures free circulation and full radiating capacity. Handles water at any temperature. Write for our proposition.

MOREHEAD MFG. CO.,
1047 Grand River Ave **Detroit, Mich**

PATENT APPLIED FOR.

Ideal Pipe Clamp
For Rust Holes and Split Pipes.
Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by
WM. MOLL,
1664 Columbus Rd., **CLEVELAND, O.**

WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
Send for Catalog and Prices.
S. WILKS MFG. CO.,
3525 Shields Ave. **CHICAGO.**

BOILERS

HEATING PLANTS and SUPPLIES at Wrecking Prices.

you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at forced sale **50,000,000 ft. of Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free. Our Greenhouse Engineer will furnish you with an estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

GREENHOUSE BOILERS. A complete line of Locomotive, Fire-box Boilers, Kroeschell Greenhouse Boilers, Return Tubular Boilers, Cast Iron Sectional Boilers, etc. Some are rebuilt, some brand new, but all are in first-class condition for further service.

BOILER FLUES. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

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Ask for Our Latest 500-page Catalogue No. 47. It is the greatest book of bargains ever issued. Send for it To-Day. You save 30 to 50 per cent by dealing with us.

The Chicago House Wrecking Co.
35th. and Iron Sts. Chicago.

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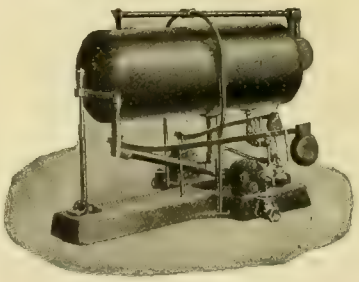


"Detroit" Return Trap. (Patented)

Will keep any Steam heating system free from water, making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass.
IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. **DETROIT, MICH.**

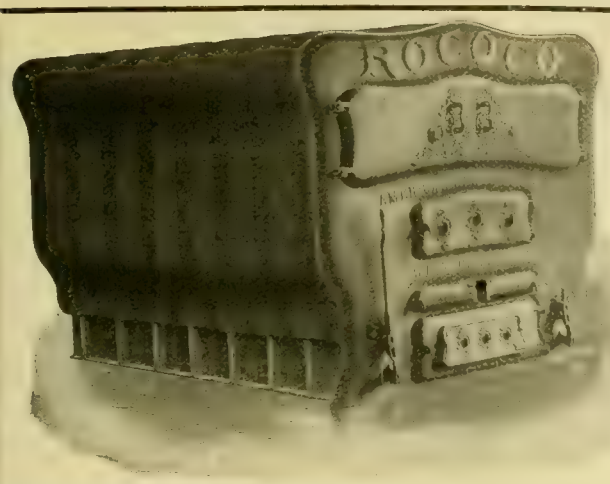
CANON CITY, COLO.—I. F. Davis is building a greenhouse on his place at Lincoln Park.

MIDDLETOWN, N. Y.—Former Alderman J. J. Wood has sold his house and lot and an additional building lot at the corner of Washington and Spring streets to E. A. Lorentz. Mr. Lorentz buys the property in order to enlarge his greenhouses.

SOUTH BEND, IND.—An overheated stove in the new store of the South Bend Floral Co. 216 South Michigan street, started a fire that did $25 damage January 29. The snowbound streets made a fast run of the fire department impossible, still a serious fire was averted.

HIGHLAND, ILL.—Maurice F. Widmer has increased his glass plant by the addition of about 1,800 square feet. His carnations are exceptionally fine this year and business has been fairly good.

MILWAUKEE, WIS.—The Edlefson Leideger Co. sustained a damage of $10,000 in the recent storm. The razing of a chimney by the gale wrecked the greenhouses, breaking the glass, and causing many plants to freeze. The explosion of a boiler caused the temperature to drop, resulting in additional loss.



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The ROCOCO

Steam or water boiler will do its share.
A boiler built for practical florists.
Boilers Perfect... ...Prices Right.

American Heater Fdy. Co.
West Chicago, Illinois.

Sometimes You Forget

That we make every part of a greenhouse but the glass—that we sell any part.

You remember us on the bigger things, but often it never enters your head to think of sending to us for a tub of putty or a few fittings.

But you ought to— and here's why:

Our sole business is manufacturing every part of a greenhouse. We give it our undivided attention.

Everything we make is made with an exact knowledge of just what conditions it must meet, and that is why an ever increasing number from all over the country are continually sending us their orders for just the smaller things.

You know how well we do the big things, and if you will only stop to think, it is just because of well done little things, that it is possible for us to do so thoroughly and enduringly the big things.

So whether white lead, glazing nails, bench fittings, it matters not what, first write to

LORD & BURNHAM CO.

Main Sales Office:
1133 Broadway, New York.

Boston: 819 Tremont Bldg.
Philadelphia 1215 Filbert St.

USE COLD-FRAMES TO INCREASE GREENHOUSE CAPACITY!

Hot-Bed Sash
Size 3x6 ft. 1⅜ thick. Glazed with 6-inch glass
$1.69
Dealer's Price $3.50

It is easy to avoid overcrowding your establishment with the thousands of young plants that demand so much room. **Cold-Frames solve the problem!** We sell the best Hot-Bed Sash made, for such low prices that you can **double** the capacity of your plant at moderate cost.

Transfer Bedding Plants and Plants for Stock to Cold-Frames Until Ready for Planting or Marketing

Build your Cold-Frames, run steam pipes through them and simply use sufficient heat to keep out frost. **It pays big!**

20,000 HOT-BED SASH in Lots to Suit, at Cut Prices!

Gordon-Van Tine Hot-Bed Sash are made of Louisiana Cypress, with blind-mortised, double-shouldered joints which are absolutely moisture-proof. Primed with pure raw Linseed Oil. Glazed with Greenhouse Putty and plenty of points. Strongest, most durable Hot-Bed Sash on the market. Prices lower than anywhere else in America.

Size 3x6—1⅜, glazed with 6-inch glass, **$1.69.** Size 3x6—1⅜, glazed with 10-inch glass, **$1.75.**

GLASS AT 300% SAVING! We buy glass in immense quantities, and sell at cut prices that save you 300 per cent.

Write for FREE CATALOG of Hot-Bed and Cold-Frame Sash and Florists' Supplies

We guarantee quality, safe delivery and satisfaction or money refunded. Cut prices on every item. Goods shipped without delay. Order from this ad or get catalog first. Write us today.

GORDON-VAN TINE CO., 1579 Case St., Davenport, Ia.

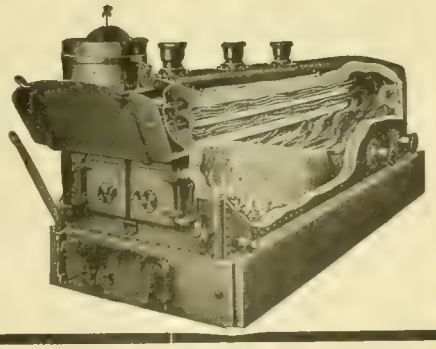
The KROESHELL BOILERS

IS THE ONLY PERFECT
HOT WATER BOILER.
(NOT CAST IRON)

Has water in front, sides, top and a water back.

Made in 15 sizes, heating 6,000 to 50,000 square feet of glass to 60° at 15° below zero.

Prices and cata ogue on application.



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45 Erie Street, CHICAGO

STUTTLE'S
Patent Pipe Clamp

Cheap as the cheapest joint in use and 100 per cent. superior For particulars write the inventor and patentee.

HENRY STUTTLE, Batavia, Ill.

STEEL Return Tubular BOILERS

The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

JOHNSTON HEATING CO.,
138 East 31st St., NEW YORK.

UNION, N. H.—Frank Varney is building a greenhouse to furnish bedding and vegetable plants in spring.

Louisiana Red Cypress

As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has ab rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

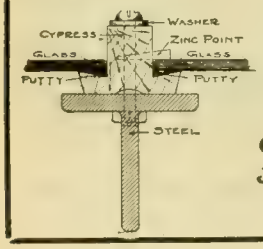
LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

The "T" Bar Curved Eave Greenhouse

Is absolutely Dripless, glass rests on Wood, reducing breakage and condensation, less wood than any other construction, wood all exposed—all steel inside, all wood outside.

Greenhouses of Every Type.

JOHN A. PAYNE,



Greenhouse Designer and Builder,

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Completely Equipped with Up-To-Date Machinery for the MAKING OF MATERIAL FOR

GREENHOUSE CONSTRUCTION

FROM A FULL SUPPLY OF THOROUGHLY SEASONED LUMBER.

Send your sketches to our draughtsmen for completion and suggestion. Permit us to figure your proposed work large or small. We Guarantee Our Prices Will Save You Money.

Foley Ventilating Apparatus is the Best.

Is simple in erecting. Is easiest of operation. It will last a life-time. Its price is the lowest. Will ventilate any size house. Prices and circulars on application.

Our 1908 Catalogue Greenhouse Material sent postpaid on request.

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LUMBER

for Greenhouse Benches, Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in special position to furnish **"PECKY" CYPRESS**; everything in **PINE** and **HEMLOCK BUILDING LUMBER.** WRITE FOR PRICES.

Adam Schillo Lumber Co. Cor. Weed and Hawthorn Sts., **CHICAGO.** Tel. Lincoln 410 and 411.

Albany N. Y.

At the February meeting of the Florists' Club, held at the establishment of W. C. King, Chas. Sanders, one of the members, had on exhibition a sample bloom of a new seedling geranium which he raised by cross fertilization about a year ago. The bloom shown was crimson in color, and in diameter measured a little over 4½ inches. Mr. Sanders said that the flower shown had been on the plant for six weeks, and was now beginning to wilt. The members present agreed that it was the finest geranium that they had ever seen, and inquiries arose as to whether there are other varieties as good in existence. It was not possible to answer the question at the meeting, and investigation may be continued. Mr. Sanders has selected the name Goliath, tentatively, for the new variety.

An interesting discussion on the use of fumigants, led by President Goldring, was held. Many of the members related their experiences with tobacco stems, which were reported to be getting worse all the time on account of the chemicals alleged to be used in curing the leaves. It was brought out that the use of tobacco stems has been discarded in this section in favor of nicotine dipped paper which is used extensively by the growers with fairly satisfactory results. J. H. Snyder, of the Violet Growers' Association, of Rhinebeck, threw considerable light on the use of potassium cyanide gas as a fumigant. The violet growers of Rhinebeck use it entirely, and with most satisfactory results. The association co-operates with a local manufacturer for the purchase of sulphuric acid in carload lots, and the cyanide is purchased in drums of from 5 to 20 pounds each for distribution among the members of the association. Mr. Snyder said that this means of disinfection had been found to be most effective.

The entertainment committee announced preparations under way for an informal banquet, to be held within the next three weeks. Among the building operations to be undertaken this spring as soon as the weather permits are: Wm. Hennell, Watervliet, two rose houses, each 30x100 feet; Henkes Bros., Watervliet, carnation house, 60x200 feet. The latter have lately finished a new house 28x120 feet, with concrete foundations, walls and benches. Concrete will also be used in the new construction.

R. D.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, FEBRUARY 20, 1909. No. 1081

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.: W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August, 1909

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N.Y., March 17, 1909. AUG. POEHLMANN, Chicago, president; BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., president; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.
ALBERT M. HERR, President elect; A. F. J. BAUR, Secretary-elect

The Grass.

Around the world once more your banners sweep,
O thou triumphant legion of the grass!
You shake the hill and valley as you pass;
Across the rivers and the seas you leap.
The music of your marching wakes from sleep
The forest and the field and the morass,
And in thy fragrant train, a starry mass,
The blossoms all like constellations creep.

What power is thine, O army of sweet peace!
To you at last all victories belong;
All battlefields are thine beneath the sun;
To every sorrow thou hast brought surcease.
What vanquished empire but hath heard thy song?
Answer, O Egpyt; answer, Babylon!
—Edward Wilbur Mason.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Shasta Daisies.

Seed of Shasta daisies may be sown now with every prospect of the plants flowering more or less this season, and at any rate they will form fine clumps for next year, either for flowering in the open or for lifting and forwarding under glass. The most ordinary details of culture only are necessary, and as the plants are perfectly hardy they will not take up valuable space for any length of time. Somewhat similar conditions suit the nearly related Pyrethrum roseum, as it is usually termed, one of the finest of hardy plants for cutting over a long season in summer.

Delphiniums.

Spring sowing of delphiniums is in many respects preferable to fall sowing. Seed sown now results in plants that, if carefully looked after, will flower more or less this season, but the chief advantage is that they will produce stronger roots, that are less likely to be lost during winter, than the small ones that proceed from fall or late summer sowing. Sow in a greenhouse temperature, and, as soon as the plants are up, place the pans or flats in frames, pricking the plants out in nursery beds when ready. Given good culture quite a number will flower sufficiently for the grower to form an idea of their value or otherwise, and they may then be propagated from or not as seems necessary. Good, clear, deep blues are the most popular for cutting, and are in every way superior to the washed out, pale forms sometimes grown.

Smilax.

Almost all cut flower growers need a bench or two of smilax, and if the supply is likely to be short new beds or benches may be planted now. Plant on good loamy soil and plant firmly. Small plants may be purchased out of 2-inch pots when the benches are ready or seed may be sown and the plants raised at home. It is one of the easiest of all plants to raise from seed and grow if kept clean. The best stock is grown in a cool, light house, a temperature of 50° at night being ample. Some growers so run their benches that they are always cutting their daily supply and allowing the plants to spring up again in rotation, so there is always about the same supply at hand. But where it can be arranged the plants are better for a short rest, and before putting new strings they should be allowed to attain a fair degree of strength, otherwise the product is likely to be thin. A top dressing of rich soil is a help, and a little soot improves the color of the foliage.

Pansies.

There is every probability that the weather will be brighter now and that the grower will be enabled to ventilate more freely the houses or frames devoted to pansies. This abundance of air will give stamina to the foliage and the flowers will come of better color and with more substance. As a rule very little feeding is necessary, but on very light soils a little fertilizer may be applied and stirred in. In any case keep the surface soil loose and remove bad foliage. Allow no flowers to go to seed and keep up a cool buoyant atmosphere about the plants.

Gardenias.

Bud dropping is one of the most troublesome details to the grower of gardenias in winter. It is misleading to read the many causes which are given for this. The cause must always be looked for at the roots, provided, of course, there was no extraordinary cause in the atmosphere such as frost, and this would injure the foliage as well. If there is a proper reciprocal action between the roots and the growth all will be well. But if by over or under watering, overfeeding or some other backset to the roots, these are prevented from sending up proper supplies to the stems and foliage then the most vulnerable part of the plants' system, the joint between the growth and flower, gives way and the bud falls. Endeavor then to so manage the roots that they are always healthy and always extending. Roots are not caused or enlongated by moisture; they are put forth by the plant to look for moisture and other elements necessary for the building up of the leaves, stems and flowers. As long as it is seen then by the rapid growth of the plants and by the bright feeding tips of the roots that moisture and food are being vigorously searched for, then all is well and the

feeding and watering may be maintained. But when the growth is checked, when the feeding points of the roots are dull, with, occasionally, brown tips, then something is wrong and the next bright day one will see the buds falling off wholesale when spraying takes place. And circumstances differ so in different places that this is about all one can say to the grower; he must, before he can be thoroughly successful, be so in touch with his plants that he can tell, before the fact is apparent by any backset that is visible to an ordinary observer, that all is not as it should be with the plants. He will then alter his treatment as seems necessary. Where a constant supply of flowers is needed from now on a night temperature of from 65° to 70° with ample atmospheric moisture will be about right. The flowers must be kept regularly cut or they soon turn color and wilt in the moist heat.

Dahlias.

It is early yet for the ordinary propagating of dahlias but there are usually some varieties of which stock is short and the roots of these may be taken out of their winter quarters and placed over a gentle warmth. For propagating purposes they may be planted fairly thickly on the bench and a little light soil placed around them. Large clumps may be divided into as many pieces as necessary by cutting between the tubers, carefully avoiding injury to the crowns or dormant eyes. A bottom heat of 60°-65° is ample to start them and the air temperature of the house may be a little lower than this by night. Young shoots produced this way are firmer and better suited for propagation than if grown in a stronger heat. The shoots may be taken off when about three inches in length and will root freely in sand at a bottom heat of 70°-75°. Thus by taking the shoots early and again allowing them to break and selecting the second shoots and repeating a large stock may be worked up in a short time. Dahlias may also be easily raised from seed and if the seeds are sown now plants of the single and decorative classes at least may be raised in time to flower well this season. Sow the seed very thinly in small pans or flats and cover lightly. Place them on a gentle heat and keep the soil moist. The seedlings will soon appear when the pans containing them must be lifted out and placed in a good light and at a temperature of 60° by night. Growth will be rapid and after potting the seedlings and getting them established, the temperature should be gradually decreased, to keep the plants sturdy.

Bouvardias.

Bouvardias flower most freely in a temperature of about 50°-60° and if the roots are just a little warmer than the heads by night it is an advantage. To keep the growth free, without which few flowers will be produced, the heads must be freely sprayed whenever possible. The spraying should be done after cutting the flowers though they are not so readily injured as are some others if the water is clean. Keep plenty of air on the house in which they are grown and practice no coddling treatment. Propagation is in order now, either by means of the strongest portion of the roots cut and placed over a little warmth, or cuttings of the new wood. The latter is the simplest method and equally as satisfactory as the root plan. Where a few plants can be spared cut them back fairly hard and place them in a brisk heat. This will cause them to break freely into growth and as soon as the young shoots are an inch or so in length they may be made into cuttings by removing the lower leaves and inserted in the propagating bench. Care is necessary not to allow them to wilt before being inserted and they must be watered in at once and kept moist until rooted. A close propagating case will root them more rapidly, but they do very well on the open bench striking as freely as fuchsias. Cuttings rooted now will make fine stock for planting outside in May to be lifted for flowering next winter or for growing on under glass, according to locality and convenience.

THE RETAIL TRADE

CLEAN windows should always be maintained. Stock never looks well through cloudy ones.

THINK up some new ideas for Easter for it is going to be the largest trade ever.—Get busy.

Now that we have done honor to Abraham Lincoln, let us prepare for George Washington. Remember he cut down the cherry tree.

J. F. SULLIVAN, Detroit, Mich., sent out a very attractive St. Valentine's day folder, a pretty girl with picture hat and "valentine greetings" outside with suitable wording inside. A very neat and telling design.

The Window as an Advertisement.

We are today confronted with the problem of advertising. Every branch of trade has been compelled to go to it and as a result vast sums of money are expended in that cause yearly: How often do we hear the questions asked, "What is the best medium?" and "does it pay to advertise?" It surely does pay. As to the best medium, there is no better one than your windows. Men, women, and children are ofttimes held spell bound by them, providing you are up-to-date, and this, in order to be successful, you must be. Change your windows every day, giving the people something different to gaze upon and talk about. This they surely will do providing you give them a chance. Ofttimes a man or woman on their way to business in passing by your shop will be attracted by a something in your window, and upon meeting their friends will ask, "Did you see that florist's window up the street?" If, perchance, they have not, it is safe to believe they will before they go home.

The window which attracts the most attention we have found not to be the one with a conglomeration of stock in it, but rather the one with just one large vase of American Beauty roses, or a design or basket of some sort. We know of some stores in the east where they have as mascots a couple of Angora cats, which are great drawing cards for we have seen crowds gathered around these windows for hours at a time; this illustrates what simple things will do. Make every dollar that you spend on your windows a winner, and this is bound to be the result if your windows are attractive. Presuming there is but one window: At this time what could be more showy for Monday than a window of yellow tulips and forsythia for Tuesday? Cover the floor of the window with smilax placing a large basket of Roman hyacinths in the center having them falling out onto the floor. On the handle of the basket tie glasses, filling them also with hyacinths, working in a handsome bow of foliage green ribbon. For Wednesday, a basket of daffodils worked in the same fashion with a black bird on the handle appearing as if it had just alighted. Thursday a border of violets around the window with a large vase of American Beauty roses, Friday fill the base of the window with plants of Adiantum Farleyense and in the center place a large vase of Longiflorum lilies. Saturday's window, lilies of the valley and violets.

Always keep in advance of the times preparing ahead for holidays, of which Washington's birthday is the next. For this occasion drape your window with the national colors, get an old stump of a tree and an ax in the center of the window, the bust of George, and on either side vases of cherry blossoms. Nothing, perhaps, makes a more attractive window at this time of the year than fruit blossoms, and when one stops to think of the ease in procuring the same, we wonder why they are not more freely used. Such windows as these are very apt to catch the stranger to the city who will remember the shop and go home telling the folks of what he saw. Get the people to talking about you then are you advertised.

When closing the shop at night don't strip the windows of everything but place in the center a handsome fern or palm. Another important feature which is sometimes overlooked is that of doing the work in a back room or in the cellar; this is a big mistake. When making a design or a bouquet or putting up a box of flowers get to the front, let the people see what you are doing, for the people that stop to look will some day be your customers. Never overlook in your city any big show or convention. Take some recognition of them, for flower buyers are everywhere and whatsoever effort you make is appreciated by them. Remember always keep in advance of the times and never repeat if you can help it. The branch of an old tree covered with Florida moss and small vials filled with cattleyas suspended in your window with an occasional plant of cattleya and A. Farleyense will make a very striking and rich window. Another window that is bound to cause comment in February, is to cover the base with smilax and place a vase of peach blossoms in the center. For a striking window, encase it with black velvet working vases and sprays of O. P. Bassett carnation through it. Crowds will be gathered about your shop all day.

C. A. SCHNELL.

The Merry Widow Hat Design.

SEE SUPPLEMENT WITH THIS ISSUE.

The Merry Widow hat is constructed by using a plateau basket, that is, a small round basket fastened on a flat one, the whole being covered with velvet. In the small basket a close fitting tin is placed, and the plant is practically potted therein, soil being firmed around its roots, the same as in potting. In the illustration, erica is the plant used, but other plants may be utilized to suit the fancy of the designer. In the hat illustrated orchid ribbon is used for trimming, but the shade of ribbon used may depend on the color of the flowering plant, and the same may be said with reference to the velvet covering of the hat.

THE MERRY WIDOW HAT DESIGN.

THE FLEISCHMAN CO.'S WINDOWS, JACKSON BOULEVARD, CHICAGO, FOR THE LINCOLN CELEBRATION.

Celebration Windows.

As we briefly announced in our last week's issue the Fleischman Floral Co., of Chicago, had very fine window decorations for the Lincoln celebration and we present this week an illustration of them. During the time these windows have been in they have been much admired and freely commented on. Other good means of advertising by window displays are noted in the excellent article by C. A. Schnell on the opposite page.

Flowers in the Chicago Stores.

The most noticeable feature in the cut flower situation has been the great scarcity of American Beauty roses. For years, growers and retailers say, they have not been so short of good flowers and even the short stemmed flowers and culls have, in many cases, been hard and poor in color. But there is a big cut in sight in some of the large growing plants and the scarcity will soon be relieved. Richmond has by no means been in its best form. The color is there, but the flowers have been small and cut almost as tight as in summer. There have been some good flowers of Cardinal, the one fault of this charming rose being the fact that in winter, when little air is given, the color fades or blues a little. White roses have also been scarce and growers are looking forward to the time when white Killarney will be plentiful enough to become a factor in the market.

The bulb stock, especially tulips, has helped out considerably this season. Not nearly as much has been grown as in former years. Growers have found a better demand and, although with the dearer varieties of tulips the prices obtained show only a very small margin of profit, yet there has not been the wholesale slaughter that has occurred in other and recent seasons. Growers will, however, be wise not to bank much on these conditions continuing another season and will watch for the backward swing of the pendulum. Freesias of the ordinary variety of refracta have been plentiful, but there is a fine white variety in the market that is far superior and this is not too plentiful by any means. Lilies have been up and down; the stock has been excellent but over plentiful at times. The demand for the Lincoln centennial caused quite a demand for these and for carnations which made a hole in the stocks at the end of last week.

Carnations are not quite as plentiful as they were, but there is no particular scarcity. White Perfection and White Enchantress are the standbys and both are in fine shape and some of the fancy and variegated varieties that are not at their best at midwinter are now showing fine form. The reds are good in color, fine in stem and fairly plentiful. Orchids are in good shape, fine flowers of Cattleya Trianæ and C. Percivaliana being shown. Gardenias are close rivals of the cattleyas and both tend to lower to a great extent the status of the violets. Apparently good double violets have shortened rather than the other way, or possibly the demand has been better. At any rate the glut is not nearly as pronounced as it was. Singles are plentiful and good.

Among minor stocks there has been some very nice clear yellow antirrhinums that help out considerably. Lily of the valley has been plentiful. Mignonette is of varying quality. Some of the spikes are thin and poor, but there are also many fine ones, evidently the first cuts from late sown plants, thick substantial flowers of fine character. Bridal wreath (spirea) is good, while pansies, lilac, bouvardia and others are shown, and there is still some of the useful stevia. Quite a number of pot plants are shown, including good azaleas, cyclamens and primulas of sorts, while the lightly forced magnolias have quite a following. Business is apparently in a healthy condition and promises to continue so. The windows of the principal retailers on the occasion of the Lincoln celebration were a credit to all concerned.

The Rosery, Kansas City, Mo.

The Rosery is located in the heart of the best residence district of Kansas City some 20 blocks from the down-town stores. This establishment, representing an outlay of $22,000, was built with special attention to attractiveness and harmony of its surroundings. The store, of buff pressed brick 20x36 feet, is set back 12 feet from the sidewalk allowing space for lawn and flowers. The conservatories, three in number, were built for show houses rather than for growing purposes; they cover an area of 5,000 square feet and adjoin the store directly in the rear. These are stocked from many small growers who have no particular market for their goods. Adjoining the rear of the greenhouses is the shop, spacious enough to contain the stable, wagon room and potting sheds. Natural gas is used for fuel.

The Rosery caters to the best retail trade in all its branches. The cut flower department, in charge of Mrs. E. D. Ellsworth and three clerks, showed a 60 per cent increase over 1907. The decorative work and plant business is handled by E. D. Ellsworth, president and manager, who has been associated with the florist trade in Kansas City 18 years.

Six men are employed to handle the spring planting which includes shrubbery as well as bedding plants and 40,000 fall bulbs were planted in 1907, the first year of business.

WITH THE GROWERS

Poehlmann Bros. Co., Morton Grove, Ill.

It is a busy time just now at the great plant of the Poehlmann Bros. Co., Morton Grove, Ill., not only with cultural details but also with the new construction work in progress. A large block of new houses is being added to the B plant. 13 of the large structures built in conformation with the plan of this great range, 27x350 feet each. The first 11 houses are roofed in and several are already glazed, while the gutters and supports of the other two are in position. Steel posts are run at 5 feet 6 inches apart to support the gutters, the highest part of which is in the center, falling each way, and two down spouts on each side are provided to carry off the water. Garland's iron gutters are used throughout. Wm. Mailander, the local contractor for this kind of work who has the work in hand, speaks very highly of the Evans ventilators, of which 80 are used and points out the excellent construction of these from a mechanical point of view.

The lumber, sash bars and vent sash are from the John C. Moninger Co., Chicago, and the contractor speaks very highly of the accurate fitting and quality of the material. The first two houses are supported by purlins and iron pipe supports but August Poehlmann says he thinks of using a truss construction for the remainder, not so much for the extra strength or rigidity but in order to have the uprights out of the way in the houses and to do away with the decay of these where they come in contact with soil or bench. The glass used is 16x24. Two Racine boilers are already in place and are being bricked in. They are of the tubular pattern, each having 150 20-foot tubes, and each of 60 h. p. capacity. Their installation had been looked forward to so there is ample room in the shed for them and also chimney room, this having been built sufficiently large when the rest of the range was in hand.

At the A plant another large addition is to be made and on the morning of our visit August Poehlmann closed a contract with the Wieterhold Construction Co. for a $38,000 chimney of tile and cement reinforced with steel. The steel bars will run up and down and at the foot of the chimney will spread laterally, like the roots of a tree. Besides this what may be termed iron belts will be placed in each course of cement blocks, the space being filled around with concrete which will tie the whole thing together both ways. The chimney will be nine feet inside and the foundation will be 22 feet square and eight feet deep. This chimney will be large enough to take care of 600,000 square feet of glass and boilers of 2,000 h. p. capacity, which will enable the firm to build quite extensively without any other chimney being needed.

CARNATIONS.

A look into the large carnation range showed the stock in the usual fine order. An immense cut has been taken this season and there are still a great many flowers of fine quality. Victory, in red, still has pride of place here as it is found to ship better than Beacon which is perhaps, rather more free. The color of Victory, too, has slightly the advantage and this fine variety has been remarkably well grown at Morton Grove ever since its dissemination. The new O. P. Bassett is to be extensively grown this season. In pinks Mr. Poehlmann thinks very highly of Winona, which he says has come to stay. Rose Pink Enchantress will be done away with as it has not proved capable of keeping up with the high standard set here. The old Lawson will still be grown in quantity as, with all the host of new candidates for favor, it has no equal as a long distance shipper and as a Christmas pink carnation, being a sure and free bloomer around this holiday. Mr. Poehlmann also thinks very highly of E.

E. D. Ellsworth.

Pres. and Manager The Rosery, Kansas City, Mo.

T. Grave's May Day and will plant it extensively, while the seedling shown by Nic Zwiefel of Milwaukee at the Indianapolis convention he has high hopes of as it is much clearer in color than Rose Pink Enchantress. Lawson Enchantress has been found too soft at Morton Grove, though, as Mr. Poehlmann points out, it has been found perfectly satisfactory in other places. Other well known kinds, such as Winsor and Enchantress are to be largely grown.

In whites, White Perfection still leads here, there being more of it grown than of any other variety, though White Lawson is also extensively planted. The young stock is looking fine, bench after bench of splendid plants without a single plant being missed. There are already many thousands potted some 300,000 being needed for home growing besides another 300,000 or so for the shipping trade. All are in the same excellent condition, for nothing that is not good enough for planting in the place here is good enough for shipping out. The plants of all the popular varieties have been cut hard for cuttings but there are still many more and all healthy, clean and strong as the produce of vigorous stock always is. It is too early yet to say much about chrysanthemums but the benches of stock plants look remarkably clean and strong and propagation is going on briskly. As indicative of the way they are handled we may note that no less than 14,000 Monrovia and an equal number of October Frost are to be propagated this season with other popular kinds in like numbers.

AMERICAN BEAUTY ROSES.

There was not a heavy cut of American Beauty roses at the time of our visit. The majority of the plants are grown at the A plant in quite small houses but whether it is the proximity to the manure pile of 80 carloads capacity or for some other reason the plants are in splendid order. They had been rested slightly and were setting buds on every shoot. Referring again to the manure pile the bottom of this is concreted to prevent the water running away and all fresh manure is dumped in on top of this so it retains all the strength. The rose benches were being treated to a liberal mulch of this and if odor counts for anything there should be some driving power behind it. The plants were clean, the foliage excellent and gave promise of an enormous cut of fine flowers.

TEA ROSES.

These are grown principally at the B plant and their condition at the time of our visit was of the best. Killarney and Richmond were in great shape, the growths good, the flowers perfect and promising a remarkable cut. Bride and Bridesmaid, Perle, Mrs. Potter Palmer, Chatenay and others are excellent and we were interested in the benches of Cardinal which were producing fine, substantial flowers of very fair color. Adolph Poehlmann gives this rose a fine character as a summer flowering red and it has more than come up to his expectation this year as a winter bloomer, though, in the latter respect, it has to give way to Richmond. In summer, when the flowers of Richmond have to be cut extremely tight, those of Cardinal are at their best both in color and substance and may be cut more open than any other summer rose according to Messrs. Poehlmann's foreman. The old Bon Silene we also noted doing well and quite a large batch of it was grown. We were disappointed in not seeing My Maryland, in better shape, the plants having been cut over hard for propagating. But it is highly thought of here and every bit of wood is being used for this purpose.

Propagation was going on briskly, some 15,000 out of the 45,000 plants annually grafted, having been already worked and many of them out of the cases and growing away well. Apparently there were no failures. In all the long line of grafting boxes we did not see a single plant that had failed to callus, all looking alike, healthy and green. We noticed that care was taken to have the manetti stocks well started before they were put into the cases for grafting and doubtless this, with the fine wood used and the excellent culture given, helped materially to this satisfactory state of affairs. Besides the grafted stock about 200,000 own root plants are raised annually and this big job was well in hand and the plants looking equally as well as the grafted stock. The whole of this B plant in fact was in excellent order, as it always is, and a great credit to the manager, Adolph Poehlmann, and his staff of capable growers.

Bringing Lilies into Bloom for Easter.

Details vary considerably in the methods of growers perhaps equally successful with Easter lilies, and in this article we do not care to disparage any favorite detail of any other grower but merely outline the scheme that has been most successful with ourselves.

In the first place we have come to depend most largely upon Lilium giganteum (Japanese), as we find we can depend better upon the bulbs coming true to name. We have not been as successful with L. multiflorum, the bulbs that have come to us usually being mixed. The true L. multiflorum, however, is a grand variety and to be recommended if the bulbs can be guaranteed to come true in any large proportion of an order. L. Formosum is also an admirable lily but varies like L. multiflorum and we find that under the same treatment the plants will vary from 18 inches to five feet in height.

ONE OF THE GREENHOUSES AT THE ROSERY, KANSAS CITY, MO.

We usually plant the bulbs in November. They can be planted earlier, but with no material advantage. December planting will also bring good lilies for Easter, coming as it does this year on April 11. Later planting than this would not be advisable as the bulbs should have plenty of time for rooting. Plant the larger bulbs in 6-inch and the smaller ones in 5½-inch pots. Azalea pots will do in case the grower runs short of the above sizes. Drainage is not necessary as overwatering is decidedly dangerous, and we find the tendency is to overwater rather than the reverse. We plant in virgin sod, well mixed with but a trifle of well-rotted cow manure.

During the fall and until well rooted they should be kept cool, preferably around 45°. They may be kept under the benches of a good, cool house, or in a lighter place if covered. Early in January they should be set on well drained benches and given an average night temperature of about 62°, not cooler than 60° nor higher than 65°.

If the above conditions have been complied with the plants will run about eight to ten inches tall at the present time. If they have been allowed to run away from the grower and have reached 12 to 18 inches, they should be kept just a trifle cooler, but we do not like either to retard or force until after the buds show. If the plants are put into too cool a temperature they will be found hard to start up again and bring into bloom in time for Easter. Usually it will be better not to vary the temperature much until the buds are an inch or an inch and a half long. Plants that are not much more than showing above the soil now should be placed at the warm end of the house.

We neither feed our plants nor shade the houses they are in. They should be frequently syringed to keep off the lice and for green fly we spray with some good liquid insecticide about once a week. If a green fly once actually shows his head we spray twice a week until he disappears.

Keep a close eye on the roots; white roots indicate a good healthy condition of the plant: if the roots turn dark the plants have been over-watered and should be put on the dry side. But in this case, prevention is better than cure. Plants from now on should not be allowed to actually dry out, but the danger is usually in the other direction.

According to the older method buds should show fully six weeks before Easter, but we find that four weeks before is plenty. Keep the plants carefully graded, shifting as often as necessary to give the shorter plants the advantage of the light they can get on the sunny side of the benches. About four or five weeks before Easter sort out those most advanced and keep in a temperature of 50° at night and same in daytime if the weather will permit. Run up the backward ones to 65° at night and 75° by day. The plants should not require shading unless, as sometimes happens, they are suddenly found to be too far along.

GROWER.

Treatment of Oleander.

ED. AMERICAN FLORIST:—

I have an oleander eight feet high that for four years has stood in the lobby of an office but never blooms. It is now in my greenhouse in full light. I want to get it to flower and also to root some cuttings. Can I do this? F. J. A.

Keep your plant in a warm greenhouse and encourage it to grow freely by giving plenty of water and feeding. When a free growth is made it will not fail to flower but in draughty places in corridors and lobbies the flowers fall off instead of coming to perfection. Cuttings root easily if placed in pots or benches in sandy soil and kept always moist.

Green Worms in Greenhouse.

ED. AMERICAN FLORIST:—

Some green worms that were on my snapdragons are now getting on the sweet peas. There are moths in the house. I used two jars of acid, putting four ounces of cyanide, eight ounces of acid and 16 ounces of water in each, but it did not destroy them. I have used the same amount effectively on white fly. What is the trouble? The house is 20x100 feet. M.

Evidently your insect visitors are proof against fumigation. Try hand picking and poisoning. For the latter use some green succulent foliage, such as lettuce, dipped in a solution of Paris green, placing the foliage on the benches and about the plants in the afternoon. Four ounces of Paris green to five gallons of water will be suitable for dipping the foliage in. Spraying the antirrhinums and sweet peas with a weaker solution of the Paris green is also likely to be helpful. G.

RETAIL STORE OF THE ROSERY, KANSAS CITY, MO.

CHRYSANTHEMUMS

Propagation.

In last week's notes we concluded with the cutting bench ready for cuttings. With ample stock to cut from these are usually allowed to remain on the plants until a cutting three inches long can be taken. Shorter cuttings may be used but there is no great advantage as they grow more rapidly on, than off the plant. Single eye cuttings are sometimes used to increase stock of scarce sorts, these being wired to toothpicks and placed in sand so the end of the cutting is under the surface, the object of the toothpick being to hold the cutting in an upright position. This method is only advised in rare cases where stock is limited.

The accompanying illustration shows a cutting as it is when cut from the stock plant and one trimmed ready to insert in the sand. The cuttings shown were 3½ inches long, one of which having the lower leaves removed and the largest ones at the top slightly headed back, so there is less leaf surface to sustain. With the cuttings ready a cut is made in the sand with a table knife running across the bench to the depth of an inch. In this cut the cuttings are placed from 1 to 1½ inches apart according to the size. With the first two fingers the sand is gently firmed around the cuttings to hold them secure. The next cut is made from two to three inches from the preceding according to the size of the cuttings. This operation is repeated until the cuttings are all in position, and when given a thorough watering the operation is complete.

Air and moisture are of the greatest importance from now until rooted. Abundance of air (not strong drafts) should be given at all times, except in very severe weather when the temperature may fall too low. Through the winter months one good watering each day will usually keep the sand saturated but as the season advances it is sometimes necessary to repeat this operation several times to prevent wilting, and in very warm weather the entire house, sides and roof, are sprayed to lower the temperature. There is no fixed rule as to temperature, in fact they will root without bottom heat, but it requires a great deal longer time. Those who propagate in quantity usually endeavor to keep the sand at from 60° to 65° and the overhead temperature about 10° less. The time required for roots to appear varies according to the condition maintained and the variety being treated. Golden Glow will root in 10 days while Maud Jeffries will require three to four weeks under the same conditions.

ELMER D. SMITH.

CHRYSANTHEMUM CUTTINGS—TRIMMED AND UNTRIMMED.

Notes on Aquatics.

The season is now here when something more than thought must be given to our future plans for the coming season in our flower gardens. Every season should leave some experience gained for future improvement, and now in planning for the coming season these points will be of great benefit. Water lilies will never be eliminated from the flower garden, large or small, but the fascination is so great that, even on a small scale, the temptation to crowd in too many plants is almost resistless. One, two or three varieties are preferable to a collection of numerous kinds, and where space permits it is better to plant several plants of a kind than single plants of different varieties. It is a matter for each individual to select a number of varieties according to space to be planted and a combination of both hardy and tender nymphæas and nelumbiums, together with other aquatic plants, makes a very pleasing and ornamental sub-tropical water garden; but never crowd the plants or cover the entire surface of the water.*

Raising plants from seed may be resorted to at once. Nymphœas of many kinds can be raised from seed, though, to the disappointment of many, a very large percentage of hybrids, especially of the hardy varieties, produce no seed. This explains why seed is not offered. Seed of hardy nymphæas should be sown as soon as ripe; the seeds will not permit of being dried or they lose their vitality. The tender nymphæas are probably the most satisfactory to raise from seed, and the day flowering varieties are preferable to the night flowering, but as nymphæas require considerable space for development some restrictions are necessary according to space at command. Naturally a greenhouse is the best structure to raise seedlings at this season of the year, although I have heard of seedlings started in a teacup in a dwelling house with very satisfactory results. Light and sun are essential. Water lilies cannot be grown in the shade; also warmth, a water temperature of 70° to 75°, atmosphere 65° to 70°, as tender night blooming nymphæas require a higher temperature. In either case the higher temperature should prevail only with sunlight and fresh air. Water is absolutely necessary. Nymphæas and other aquatic plants cannot be grown like other flower seeds. The pans, or other receptacles, must be submerged in water. To those possessing a greenhouse it will be an easy matter to construct a suitable tank in a corner or a part of the bench, if not already on hand. The tank should be six inches deep, any desired length, but must be of metal or metal lined and exposed to the action of the heating pipes. These should be boxed in to retain the heat similar to the propagating bench. A tank of this kind will accommodate both seed pans and plants in 3-inch and 4-inch pots.

Plants are fit to plant out in summer quarters when established in 4-inch pots. When necessary to have a part of the tank at a higher temperature a division board across the tank will suffice, and a small lamp stove under that section will raise the water temperature many degrees. The seeds of tender nymphæas of the day flowering varieties, such as N. Zanzibariensis and N. Zanzibariensis rosea and azurea N. cœrulea and N. gracilis, germinate very readily, but there will be generally more or less variation in size and color of the flowers. N. gracilis varies much unless saved with great care, as it is very susceptible to cross-pollination by insects, especially when grown in proximity to any blue variety. This is applicable alike to night-blooming varieties, probably more so. I have found a larger range of size and color amongst these and have abandoned this method of propagation where it is necessary to obtain a variety true to name and catalogue description. Seed pans or pots of various sizes may be used according to quantity of seed to be sown. Prepare the same as for other flower seeds save in the use of peat. Any other good potting soil will do, but it should not contain manure that will ferment.

Cover the seed with sand or sandy soil and place in the water, but do not submerge for two or three days. The seeds being dry when sown would rise to the surface and cause loss and annoyance, especially if there are two or more varieties, but after two or three days the seeds will be well soaked and will remain stationary. When only a few plants are wanted sow the seeds moderately thin and the plants can remain in the pans until floating leaves appear and the plants large enough to be potted into 2½-inch or 3-inch pots, and later on, when the plants are well rooted into 4-inch and 5-inch thence into their summer quarters. When seedlings are too thick, thin them out or prick off into pans previous to potting. Nelumbium seed may also be sown, but before doing so file through the hard shell at the base and insert each seed separately in 3-inch pots, placing the cut end uppermost. Victoria seed may yet be sown. V. regia requires a temperature of 90°. V. Trieker 70° to 80°. I would not subject young plants of the latter to a higher degree than 75°, otherwise the plants will be weak and sickly. Tubers of all tender nymphæas may be started in March under precisely the same conditions recommended for raising plants from seed, but they will not require so long a time to develop.

W. T.

*The writer would willingly comply to any request to make selections of suitable varieties of plants for any given size of pond, pool, fountain basin or tubs.

Illinois State Florists' Association.

Fourth Annual Meeting, Springfield, February 16-17.

Tuesday Afternoon Session.

For the second time Springfield welcomed the Illinois State Florists' Association for a two days' meeting, February 16-17, and the snowstorm that accompanied the arrival of the visitors was a matter of comment for its coincidence with the blizzard of a year ago. But for this storm which began to gather the day before the gathering, the attendance undoubtedly would have been considerably larger.

The St. Nicholas hotel, the headquarters of so many of the trade as could find accommodations there, is directly across the street from Arion hall where was staged the exhibition, and in one of the rooms of which the sessions of the convention took place. The hall, large and roomy, presented an attractive appearance considerably before the opening hour. Three tables, running nearly the full length of the long hall, staged all the cut flower exhibits and some of the plant displays, and around the walls were other plant exhibits and the building trades, the boiler men and dealers in retailers' and growers' supplies. Not a small part of the decorations and displays presented by the hall were the banners of leading firms in various lines. The carnation men seemed much in the preponderance among the exhibitors, many fine vases of new and standard carnations being seen; in fact, two of the three tables were nearly monopolized by this grand flower.

The meeting was called to order by Chas. E. Hay, of Springfield, who introduced Mr. Murray who welcomed the association on behalf of Mayor Reece who had been scheduled for this part. Geo. Asmus, president of the Chicago Florists' Club, responded on behalf of the association. President Albert T. Hey then assumed the chair and named the following committees:

President's address.—W. N. Rudd, Geo. Asmus and E. W. Guy.

Auditing committee.—P. J. Foley, A. C. Brown and A. G. Fehr.

Judges of exhibition.—F. L. Washburn, Peter Olsem and Geo. A. Kuhl.

Sergeant-at-arms.—Otto Larson.

President Hey then read his annual address, as follows:

President Hey's Address.

In greeting you this afternoon I bid you welcome to our fourth annual convention. It is a pleasure to meet so many of the members of this association and it certainly proves that our organization is gaining ground. I do not think that at this time it is necessary to take up your time with any long address as there are many things of interest to place before you.

But there is one thought I wish to call your attention to today. One year ago an invitation was extended to our association to meet at the home of Lincoln, it being the centennial of his birth and it is but fitting as we are now gathered together that we pause from our labors a little while to pay a tribute to his memory, under the shadow of his tomb whose shaft points to the everlasting skies. We are assembled together to work for a cause that has for its aim and object the development of higher ideals and love for the beautiful in nature and so may each one of us exemplify in our life the lessons he taught, that of plucking a thistle and planting a flower wherever he thought a flower would grow. I would therefore recommend to this association, in honor of this occasion, that we deposit at the tomb of the immortal Lincoln a floral tribute in memory of him who lived with malice towards none and with charity to all.

THE EXPERIMENT STATION.

Since we last met, the experiment station of which we are so justly proud has been completed and I can say it does credit to our advisory board and to the college officials for the manner in which they have taken hold and completed the task given them. The association can feel proud of it. We have now at the University of Illinois as fine and complete a plant in every detail for experimental work as can be found in the country. I only wish that each member of this society could see it for himself, for then only can he appreciate the work of this association, as it is an achievement of which every florist in Illinois should be proud. This initial movement has been watched with great interest from other states and under the management of Prof. H. B. Dorner, who is an enthusiastic worker in the cause, we expect to get results that will be of utmost importance to our association and the trade in general. The secretary of our advisory committee will give you a detailed report of the work. Now, I wish to impress on the members here and the trade in general, that just because we have this station established we cannot fall back and rest upon our oars. It just means as much work as ever it did. This year we are going before the legislature for an annual appropriation of $17,500 to carry on the work. We need to increase the plant to carry on other experiments. Out of our last appropriation of $15,000 we were barely able to build the plant and get it in working order, but the college officials saw that our work was of vast importance, generously came forward and out of the college funds donated the magnificent sum of $5,000. Too much credit cannot be given the officials of the university for the interest they have taken in the work. They have shown their willingness in every way to help, for which the association cannot but express their gratitude.

Many of you may think that this is a large sum of money to spend, but few realize the vast amount of detail in connection with the getting up of records, compiling literature on the subjects to be treated, references, etc., and getting a thorough ground work to build on. Remember that we had nothing of this kind in the country before. Now, this has all been done and we can truthfully say that in this work Illinois takes first place in the front rank from a floriculture standpoint. Now let every member of this association put his shoulder to the wheel and help to get this appropriation. I have appointed J. F. Ammann, our secretary, to represent this association on the legislative committee and any help you can give him will be duly appreciated.

CENSUS.

The action taken at our last convention on the census of floriculture bore fruit in that it was taken up by the national society and it is now working in conjunction with the census bureau at Washington. The committee recommended a plan, simple in detail, that can be filled by every florist and we expect when the census of 1910 is taken it will show a far more complete record than it was ever possible to get before.

In compliance with the recommendation of the association at its last annual convention our secretary has sent out blanks to be filled, giving glass area, etc. This has met with a favorable response, but is not yet complete. We fully intended to give to you complete statistics of glass in Illinois at this meeting, but this seems to be very hard to accomplish. We need these statistics for our legislative committee and all those that have not responded will kindly do so. In order to complete this it will be necessary for someone to canvas certain sections of the state and I cannot recommend anyone better than our present secretary, and as this involves time and money I would recommend that his expenses be paid.

THE STATE FAIR.

Through the efforts of this association we were enabled to make a better showing at the state fair. I called your attention to this matter last year and wish to again remind you that there is still room for improvement. The schedule needs revision to bring it up to date and I think the time has arrived when this association ought to take some action in getting an appropriate building for the floriculture exhibition. I would therefore again recommend that a committee be appointed on floriculture at the state fair.

I think that the association would be much benefitted by having the different floral centers of the state represented by correspondents with whom the secretary or president could keep in touch. "What is everybody's business is nobody's business" and it has often been difficult to get information that is needed. I would suggest a similar plan to that of our national society and I think it would prove of great value to get for our records a complete statement of our business. This will be especially valuable in furnishing data for our legislative work and other things which our association will need for its future development. These correspondents should be kept supplied with our literature and other matter and could aid the association greatly in increasing its membership.

We have, as per our constitution, seven vice-presidents, and in appointing these it should be with the understanding that they accept the office with a certain specific duty to perform. I would therefore recommend this idea for your careful consideration. At the last convention the association recommended that certificates of merit be issued to all exhibits worthy of the same. It is hoped that this will bring out a better show. I have therefore requested our secretary to provide them and the same will be given out by the judges of exhibits.

SCHOOL GARDENS.

I believe our association, through its members, should take an active part in the different localities in promoting the interest of school gardens and children's flower shows. This movement is growing and the association should recommend it and I think it would be a good plan to get up a simple premium list and offer a special certificate of merit. This is an inducement and encourages the growing of flowers, etc., and the beautifying of homes; also for the best essay or paper on gardening by children of the public schools. I would recommend that a committee be appointed to take this matter up.

I am of the opinion that this association, representing as it does the floral industry of the state, should take some action in the matter of a state flower. Several of the states have by legislative enactment recognized some flower as their floral emblem and I believe that this society should go on record and recommend to our legislature some flower that is indigenous and appropriate for Illinois.

In conclusion I wish to thank you one and all for electing me the second time as your president. Our relations have been most harmonious. Everybody has worked for the common good. To the university officials I wish to express my sincere thanks for the many courtesies received and as to our secre-

A. C. Brown, Springfield, Ill.

Chairman of Entertainment Committee, Springfield Florists' Club.

tary I cannot say too much for him for his many kind acts and the generous donation of his time to the cause. He is not only entitled to my thanks, but the thanks of every member of this association. To the florists of Springfield for their hearty welcome and their great interest taken in the convention and to those of our members who have always been ready to render willing aid I return my sincere gratitude. To my successor in office, whoever he may be, I tender my assistance and best wishes and to one and all of you in the language of our Irving, "May you live long and prosper."

For we live for those who love us,
For those who know us true,
For the heaven's that smile above us,
And awaits our spirit too,
For the cause that needs assistance,
For the wrongs that need resistance,
For the future in the distance,
And the good that we can do.

Secretary Ammann's Report

Your secretary is pleased to report quite an increase in membership the past year; our membership at present writing is 11 life members and 155 annual members. The society has been fortunate in not having any deaths among its members the past year, at least none has come to the knowledge of your secretary. The matter of life membership should appeal more to many who are now and may become members of our organization. Every proprietor of any medium size establishment should become a life member; this is not only a benefit to the society, but is a good business proposition, at least, for every young or middle-aged man.

The trade papers have as usual been a great help to our work the past year and we all, I am sure, feel much indebted to them for their kind assistance. Much progress has been made in our experimental work which will be reported to you more fully by the secretary of our advisory board, W. N. Rudd, and Prof. H. B. Dorner, who is in charge of the work.

The secretary takes this opportunity to thank all those who responded so promptly to the call for data of glass in their respective counties. While the work is not nearly completed, the help rendered so far has encouraged me enough to say that I believe we are on the right track to get a correct line on what our business really amounts to, which when completed will be of great value to this organization. Reports from 30 counties complete and four incomplete show an aggregate of over 6,000,000 square feet under glass, with 68 counties complete and four in part to hear from. The several committees that have been appointed by our worthy president have worked faithfully and to those members also much credit is due for our progress the past year.

With the magnificent houses and service buildings merely as a foundation for the great and good work to be carried on at our experiment station, we should all this year depart from this meeting with renewed energy to work with a might for the advancement of floriculture in this great state. I wish to impress on all present that our membership is not nearly what it should be and hope that each will do his part the coming year to help increase our membership to at least a fair representation of our large interests.

Treasurer Washburn's Report

RECEIPTS.

A. C. Beal for Nat. Fl. Show	$45.00
A. C. Beal, dues, etc	82.00
Geo. A. Kuhl (balance)	8.90
J. C. Vaughan for Nat. Fl. Show	5.00
J. F. Ammann	56.00
	$196.90

DISBURSEMENTS.

Phillips Bros.	$ 3.50
A. C. Beal Sec'y expenses	5.39
Julius Roehrs & Co	50.00
Cash in bank	138.01
	$196.90

J. F. Ammann, Edwardsville, Ill.

Re-elected Secretary State Florists' Association.

Urbana Next Meeting Place.

On motion of A. C. Canfield, of Springfield, and by unanimous consent, Urbana was chosen for the next annual convention. This will give those attending the meetings an opportunity of visiting the greenhouses erected at the state university for experimental work and better appreciate the work so far accomplished by the association in this direction.

J. F. Ammann, chairman of the committee to provide for floricultural exhibits at the state fair gave his report of the work of that committee, and read a letter from Mr. O'Dwyer of the State Fair board telling of his efforts to get the board to give a suitable space for such exhibits.

E. Davenport, dean of the Illinois State University, whose arrival was delayed on account of the storm, succeeded in reaching the hall before the close of the session and gave his extempore address on "How Floricultural Interests Can Be Advanced and Why It Should Be Done at State Expense." This talk was replete with entertaining but pointed comparisons and was well received.

The Banquet.

On Tuesday evening the members of the association were the guests of the Springfield Florists' Club at a banquet at the St. Nicholas hotel. The tables were beautifully decorated by the reception committee with pink flowering azaleas and white carnations, together with vases and bontonnieres of Winsor carnations. The dinner itself was well arranged and tastefully served, with very attractive souvenir cards giving the following menu:

Blue Points
Salted Almonds
Green Sea Turtle
Celery Olives
Breast of Chicken, Supreme
Saratoga Chips
Roman Punch
Fillet of Beef, Larded, with Mushrooms
Asparagus Browned Potatoe
Lettuce and Tomato Salad
Tutti Frutti Ice Cream
Assorted Cake
Roquefort Cheese
Toasted Water Crackers
Coffee
Cigars

Then over the coffee and cigars with Chas. E. Hay, of Springfield, acting as toastmaster, the following toasts were responded to and heartily applauded:

TOASTS.

Invocation ..... Ven. F. A. DeRosset
Beacons—"On the Carnation Horizon" ..... W. N. Rudd
Current Topics
"From a Professional View Point" ..... Prof. H. B. Dorner
"Inspiration of a Flower Show" ..... George Asmus
Springfield—"Past, Present and Future" ..... N. R. Roberts
The Western Fad—"Is It a Perennial" ..... Albert T. Hey
Snowbound—"In a Friendly Community" ..... Geo. H. Angermueller
Afterglow
"Of the American Carnation Society Meeting" ..... J. F. Ammann

Wednesday Morning Session.

BY WIRE.

On Wednesday morning the association caused vases of flowers to be placed on the desks of legislators and other state officials. In acknowledging the receipt of flowers Governor Deneen sent the following letter to the convention hall:

"Gentlemen: I thank you cordially for the beautiful flowers sent to me this morning with the compliments of your association. I assure you that I appreciate very highly your courtesy in this matter. I desire to extend to you

F. L. Washburn, Bloomington, Ill.

Re-elected Treasurer State Florists' Association.

cordial greeting and my best wishes for a successful convention."

Another letter from the state capitol read as follows:

"J. F. Ammann, Secy., Dear Sir: As one of the members of the den of iniquity, otherwise known as the Illinois general assembly, I wish to express my hearty appreciation of the lovely flowers which your association has so generously showered upon us today. The legislative paths of the last six weeks have hardly been strewn with roses until this morning.—FLAGG."

Prof. J. H. Collins, superintendent of the public schools of Springfield, on Wednesday morning spoke before the association on the topic of "School Gardens." He read several reports he had collected of the results of the school garden idea, but did not confine his attention to this phase of the matter, but went on to tell of the advantages of home gardening in general. This was an excellent talk and well received. Prof. H. B. Dorner followed with an address on "Our Experiment Stations," telling of the work there being carried on somewhat in detail. W. N. Rudd then spoke of "A Few Carnations I have Seen." Votes of thanks were extended to the Springfield florists who had so generously entertained the association, also to the speakers for their papers and remarks.

The Election of Officers.

The election of officers resulted as follows:

E. G. Gullett, Lincoln, president.

G. B. Franks, Champaign, vice-president.

J. F. Ammann, Edwardsville, secretary.

F. L. Washburn, Bloomington, treasurer.

Wednesday afternoon was spent by the visiting florists in visiting various growing establishments as guests of the local trade or in visiting the historic sites of the town.

Report of the Judges.

Your judges of the exhibition respectfully report exhibits made by 16 exhibitors, as follows:

Chicago Carnation Co., Joliet.—Vase of Carnation Conquest, 86 points (certificate of merit); honorable mention for vases of Melody, White Perfection, Beacon, Winsor and Andrew Carnegie; vases of Aristocrat, White Enchantress, Sarah Hill, Splendor, Enchantress and Lawson-Enchantress.

Mount Greenwood Cemetery Association, Morgan Park.—Vase of Carnation Mt. Greenwood, salmon pink, 86 points (certificate of merit); honorable mention for vase of Mrs. J. C. Vaughan carnations; also vase of Seedling 11004 C (crimson) exhibited.

Baur & Smith, Indianapolis, Ind.—Vase of Shasta carnations (white), 89 points (certificate of merit).

St. Clair Floral Co., Belleville.—Vase of Seedling Carnation No. 20 (dark pink), 82 points.

Belle Miller, Springfield.—Honorable mention for vases for Variegated Lawson and Mrs. T. W. Lawson; vases of White Perfection, Lady Bountiful and Winsor also exhibited.

Bassett & Washburn, Chicago.—Vase of Carnation O. P. Bassett, 86 points (certificate of merit).

A. C. Brown, Springfield.—Vase of Superba (pink), 90 points (certificate of merit); Sangamo (silver pink), 87 points (certificate of merit); Clara Mae (pink), 82 points; Gov. Deneen (purple), 81 points; also vases of Rose Pink Enchantress, Mrs. Patten and 25 seedlings.

Highland Park Greenhouses, Highland Park.—Vase of Carnation Lucille (white with shell pink center), 85 points (certificate of merit).

J. F. Ammann, Edwardsville.—Honorable mention for vase of Mrs. Potter Palmer; vases of Ivory roses, Rhea Reid, Killarney, Richmond, Chatenay and Alice Roosevelt, also exhibited.

Bertermann Bros., Indianapolis, Ind.—Vase of Carnation James Whitcomb Riley (yellow), 87 points (certificate of merit).

Springfield Boiler & Mfg. Co.—Model Steel internally fired boiler and photographs.

Wirth & Graup, Springfield.—Vases of White Lawson, Enchantress, Lady Bountiful and White Enchantress.

W. H. Gullett Sons, Lincoln.—Vases of Bride and Bridesmaid roses, honorable mention.

PLANTS.

A. C. Brown, Springfield.—Group of cinerarias, azaleas and pink geraniums.

Carl Rauth, Springfield.—Group of azaleas, araucarias, palms, ferns and pans of tulips.

Vaughan's Seed Store, Chicago.—A line of flowering and decorative plants, dormant stock and bulbs.

Wertheimer Bros., New York.—General displays of novelties in ribbons, etc.

MISCELLANEOUS.

I. N. Pillsbury, Galesburg.—Vase of split carnations mended with the Pillsbury staples, which we consider a very good thing.

American Blower Co., Detroit, Mich.—Model steam trap.

Ionia Pottery Co., Ionia, Mich.—General display of white flower pots, vases, wire hanging baskets and wire designs.

Geo. M. Garland, Des Plaines, Ill.—Section of greenhouse showing new truss work, gutters, etc.

Kroeschell Bros. Co., Chicago.—Model of heating boiler.

J. C. Moninger Co., Chicago.—Section of greenhouse showing new ice clearing hinge.

Convention Notes.

The following concerns were represented by prominent banners on the wall; Peterson Nursery, Chicago; W. J. Cowee, Berlin, N. Y.; Kroeschell Bros. Co., Chicago; John C. Moninger Co., Chicago; Springfield Boiler & Mfg. Co., Pulverized Manure Co., Chicago; Foley Mfg. Co., Chicago; Chas. F. Meyer & Co., New York; Wm. Hagemann & Co., New York; Henry F. Michell Co., Philadelphia, Pa.; E. H. Hunt, Chicago; Laib Co., Louisville, Ky.; American Blower Co., Detroit, Mich., and the A. Dietsch Co., Chicago.

The photograph album of Fred Lautenschlager of the Kroeschell Bros. Co., Chicago, showing views he had taken of greenhouse establishments in which the Kroeschell boiler had been installed was one of the things most of the visitors took occasion to look over. Besides this the same firm had a small model of a boiler, a generator, heating system and rocking grates.

Geo. W. Cohen, of Wertheimer Bros., New York, was on hand with an attractive exhibit of ribbons, corsage shields, silk bouquet hankerchiefs, violet novelties and chiffons, including the latest creations in "Sparkling Dewdrop" chiffon.

The E. G. Hill Co. of Richmond, Ind., had an exhibit on the way on Tuesday which must have been delayed by the storm. A shipment of carnations from the Chas. Knopf Floral Co. suffered the same fate.

Peter Reinberg was given the compliment of 20 ballots in the legislative vote for U. S. senator on Tuesday. The first ballot was received by the representatives and senators in joint session with great applause.

The hardware men of the state were gathering on Tuesday for their annual convention and the armory in which they were staging a large exhibition was decorated by A. C. Brown.

And they always know that J. A. Evans of Richmond, Ind., is present, the after dinner speakers taking particular note to address "Mr. Chairman, Mr. Evans and Gentlemen."

There were 3,000 of the finest carnations shipped to Springfield to be used on Wednesday as reminders to the legislators assembled that the florists of the state were in town.

The Ionia Pottery Co., Ionia, Mich., in charge of Geo. Dysinger, had an attractive exhibit of pots, stands, vases and a general line of wire designs.

The carnation was king at the show, grand vases of both new and standard varieties being shown and little else in the cut flower line.

The John C. Moninger Co., Chicago, showed samples of its lock splice for gutters, purlins, ridges and new ice clearing hinge.

REPRESENTATIVES OF THE LORD & BURNHAM CO., NEW YORK.
At Dinner at the St. Denis Hotel, February 6, 1909.

Springfield Florists' Club.

The manner in which the Springfield Florists' Club entertained the convention visitors was a matter of favorable comment, as it was last year also, and the officers, committeemen and members of this organization are entitled to all the credit that can possibly be bestowed. Special credit is due to President Carl Rauth, Vice-President R. T. Donnell, Secretary W. T. Homburg, Treasurer G. Van Horn and the following special committees:

Advertising committee.—W. T. Homburg, chairman; A. C. Brown, G. W. Jack and R. T. Donnell.

Entertainment committee.—A. C. Brown, chairman; H. L. Phelps and C. E. Hay.

Hall and exhibition committee.—Geo. Van Horn, chairman; Raymond Biernbaum and Carl Rauth.

Report of Advisory Committee.

Various informal meetings of two or more members of the committee have been held during the year for the examination of building plans and discussion of matters of importance to the conducting of the work, and while these meetings were of value and assisted materially in furthering the business for which the committee was appointed, as they were not official they are not here reported.

A meeting was held on February 14, 1908, at Springfield. A general discussion of building plans occurred. Reports from A. C. Beal and various other persons on matters relative to the work at the station were received. It was decided that preliminary plans for the new greenhouses should be drawn and copies be submitted to each member of the committee for examination and criticism.

A meeting was held at Bloomington, July 1, 1908. Professor Blair reported that a total amount of $3,700 had been expended from the appropriation in carrying out authorized work. He stated that the new greenhouses which it was proposed to build as per plans examined individually by the various members of the committee would cost $13,500, of which sum the officials of the station had found themselves able to provide $7,000, leaving a balance of $6,500 necessary to be raised. The advisory committee, having previously set aside a sum of $3,000 for building purposes, then authorized the expenditure of $3,500 more, making $6,500 to be paid towards the greenhouses from the appropriation. Various reports were presented and accepted and an adjournment was had to the Washburn greenhouses, where experimental work in the control of thrips was being carried on and an examination of the conditions there existing was made. A report by H. B. Dorner outlining a series of experiments on fertilizer as applied to carnations under glass was presented and accepted.

A meeting was held at the University of Illinois at Urbana, October 12, 1908. Various routine matters were considered and Professor Blair reported that unforeseen contingencies had reduced the amount of our appropriation available for the greenhouse building to about $6,000 instead of $6,500, but that the department had found themselves able to take care of the other $500. It was unanimously agreed to ask the state legislature at the next session for an appropriation as follows:

For buildings	$18,000
For publications	4,000
For research work	13,000

This makes a total of $35,000. J. F. Ammann was unanimously selected as the representative of this committee upon the general legislative committee for experiment station appropriations. Upon the following day various members of the committee met with representatives of committees in charge of other interests similarly organized to our own and a general agreement was reached as to the framing of a bill to be introduced in the legislature and to the handling of the same by our representative in connection with those of the other interests.

Another meeting was held at the University of Illinois February 8, 1909, at which reports regarding the progress of the work were received and accepted and an inspection of the new greenhouses and the work being conducted therein was made, the committee being highly pleased at the fine conditions found and the efficiency displayed in all parts of the establishment.

In conclusion the committee wishes to make known to the association the extent of the obligations of the florists of this state to Eugene Davenport, director of the experiment station, and to J. C. Blair, chief of the Department of Horticulture. These gentlemen have shown a most enthusiastic interest in our project and have forwarded our plans in every possible way. It is well known to the members of this committee that the general funds appropriated for the experiment station are inadequate and these gentlemen are at all times hard pressed to make both ends meet; therefore their action in drawing upon their scanty resources for $7,500, more than half the total amount needed for our buildings, should be thoroughly appreciated by every member of this association and your committee believes should be testified to by a vote of thanks. The committee also wishes to signify its high commendation of the work done by H. B. Dorner. Having been in close touch with him at all times and having made frequent and careful examination we have found nothing to criticise, much to commend and believe that the station as well as this association is to be congratulated in securing his valuable services.

We wish to urge upon every member of the association the desirability of visiting the university as often as possible and of inspecting the work being done for us there. We believe that all will concede that the greenhouse plant is a model commercial plant and well worth the study of all florists as regards construction details and heating apparatus. (As Mr. Dorner will speak to you regarding the buildings, a detailed description of them does not seem needed in this report.) The committee feels sure that every florist will be made welcome by Mr. Dorner and that the educational value to each one coming from an examination of the work can hardly be overestimated.

The present plant of course is only a beginning and the more glass structures that can be provided the more value we shall get from the work; therefore it should be the duty of every member of this association to get in touch with Chairman Ammann of the legislative committee and assist in every possible legitimate way in securing the passage of the present bill. It should be noted that while we have now two 100-foot houses, if we get the appropriation asked for we shall be able at once to erect four more houses, thus giving us three times the persent capacity for doing good work for the florist.

The committee congratulates you upon the great work so well begun and feels that the achievements so far are only a small part of what may be done each year through the years to come, provided that this association and its individual members keep their shoulders firmly against the wheels and keep pushing.

W. N. RUDD, Sec'y.

Visitors.

J. F. Ammann, Edwardsville.
Geo. H. Angermueller, St. Louis, Mo.
Geo. Asmus, Chicago.
Fritz Bahr, Highland Park.
A. C. Beal, Urbana.
August Berghund, Western Springs.
H. G. Berning and wife, St. Louis, Mo.
J. H. Blixen, Edwardsville.
Geo. W. Cohen, New York.
Prof. E. Davenport, Urbana.
C. M. Dickinson, of E. H. Hunt, Chicago.
Prof. H. B. Dorner, Urbana.
Geo. Dysinger, Ionia Pottery Co., Ionia, Mich.
J. A. Evans, Richmond, Ind.
Adolph G. Fehr, Belleville.
P. J. Foley, Chicago.
E. W. Guy, Belleville.
Dr. A. S. Halsted, Belleville.
Albert T. Hey, Western Springs.
H. B. Howard, Chicago.
Harry Johnson, Bloomington.
John H. Kahrs, St. Louis, Mo.

THE MOREHEAD STEAM TRAP.

A Recent Shipment of Fifty Traps From the Detroit Factory.

Harvey E. Kidder, Ionia, Mich.
Geo. H. Kuhl, Pekin.
F. Lautenslager, Kroeschell Bross. Co., Ch'go.
H. C. Lenington, Chicago.
A. F. Longren, Des Plaines.
Peter Olsem, Joliet.
J. H. Pepper, Chicago.
A. T. Pyfer, Joliet.
W. N. Rudd, Morgan Park.
N. J. Rupp, J. C. Moninger Co., Chicago.
Walter Scott, LaGrange.
L. R. Smith, Edwardsville.
Wm. C. Smith, St. Louis, Mo.
F. L. Washburn, Bloomington.
M. F. Widmer, Highland.
R. S. Woodyard, Sharp, Partridge & Co. Ch'go

Morehead Return Steam Traps.

The accompanying illustration is interesting in that it indicates in some measure the extent of the present large use of steam traps in connection with greenhouses. The illustration represents a shipment of 50 Morehead return and non-return steam traps and boiler feed from the plant of the Morehead Manufacturing Co. of Detroit, Mich. For over 20 years the Morehead trap has been in general use by florists. The operation of the trap is absolutely automatic and is dependent solely upon the natural law of gravitation. It is set perfectly level about four feet above the water level of the boiler, and as nearly directly over the opening in the boiler as possible.

As the tank becomes filled with water, it tilts, engaging with a lever which turns live steam from the dome of the boiler onto the surface of the water in the tank, thereby equalizing the pressure within the boiler. The water is allowed to flow directly into the boiler by gravity. As the tank becomes empty, it is tilted back into its normal position by a weighted arm, and the process of refilling and redumping is continued. It appeals particularly to those desiring a dependable, simple piece of mechanism for the elimination of the line condensation. Employed as a boiler feed, the

Morehead return trap requires less than one-tenth the amount of steam consumed by the ordinary boiler feed pump. A little careful thought and figuring in connection with the question of the economic relation of the steam trap to the consumption of fuel will convince any florist of the strong advisibility of utilizing the former.

To Be Done Now.

IN THE GREENHOUSES.

Continue to sow annuals for early planting outside, but only as many as can be properly taken care of until planting time.

Take out of store whatever dahlias are required for early propagation and place over a gentle heat to start.

Sow Pyrethrum roseum for flowering outside this summer and plant out fall sown seedlings as soon as the weather is fit.

Take grafted roses out of the cases before the shoots have a chance to run up spindly and keep a bright lookout for manetti suckers.

Avoid wetting the growth on forced shrubs unduly after the flowers show, especially with such subjects as magnolias, the texture of whose flowers are delicate.

Gardenias will take more water as the days lengthen and the sun gets more power.

Spray rambler roses regularly as the growths develop; thin the shoots a little if necessary and keep them clean.

OUTDOORS.

Keep off the soil when it is wet and pasty. Time will be saved rather than lost by waiting until it is in proper condition.

Take note of wet and badly drained portions of the garden or grounds for attention to drainage later.

In spare time look over all tools and utensils and do any repairs necessary; also procure any new ones needed so they will be on hand in good time.

A lot of fresh, green manure should never be used on the field quarters for carnations. Old and partially decayed manure is far better.

Get all decayed standing cabbage or similar crops dug or plowed under as early as possible, or they soon become very offensive.

If endives are keeping badly look them over, pick off decayed leaves and plant them in light, dry soil in frames where they can be protected.

OBITUARY.

John H. Small, Sr.

John H. Small, Sr., founder of the well known firm of J. H. Small & Sons of Washington, D. C., and New York, died at his home in Washington on February 14, aged 82 years. Mr. Small was born at Watford, Eng., in 1826, and came to America in 1848 intending to give his entire attention to landscape gardening, or architecture, as it is now called, for which he was well trained. While at the royal gardens at Frogmore, he had the privilege of seeing much of the early married life of Queen Victoria, as well as the early childhood of the present king. Being shown one day how to pick strawberries so that the queen could eat them from the stem, his father said to him: "You are picking berries for the queen of England. Who knows what you will be doing for the president of the United States some day." He remembers seeing the great duke of Wellington riding to and from London and Windsor.

Arriving in Philadelphia, he heard that Mr. Linthicum of "The Oaks" in Georgetown wished a landscape gardener to plan and add to the beauty of his place. He secured the position and retained it until he went into business for himself in 1854. He planned and laid out many of the fast disappearing old gardens in Georgetown. He was a pioneer in planning interior and table decora-

The Late J. H. Small.

tions as we find them today in America. Through his advice the British minister, Lord Lyons, gave up the wax flowers and fruit which he had brought from Paris for table decorations, and used

The Late William C. Krick.

natural flowers instead. Mr. Small furnished them at a loss in order to set the fashion for the natural instead of artificial decorations. As the elder Olmsted was the pioneer in American landscape architecture, now so ably followed by his son, so Mr. Small was the first in interior and table decorations in America. He was ably followed by his sons J. H. Small, Jr., and C. A. Small. Together they planned many of the beautiful decorations for which America has become famous.

Nine years ago he was stricken with paralysis and has since been practically an invalid. During these years, however, he was always cheerful and in a measure active, taking great interest in the work of the greenhouses, which are a part of the extensive family estate, on the Brentwood road. Though a thorough man of business, Mr. Small was always mindful of the rights of his competitors and frequently lent a helping hand. He was prominent in the masonic fraternity and a devout Christian. He is survived by a widow, three sons and six daughters. The sons are John H. Jr., manager of the Washington business; Chas. A., manager at New York, and Archibald, a resident of Washington. The daughters are, Mrs. Dr. Richardson, Mrs. Berry, Mrs. Dalgleish, Mrs. Crowe and the Misses Janet and Sidney Small, all of Washington.

William Christian Krick.

William C. Krick, a florist with a national reputation, died February 7 of heart failure at his home, 1165 Greene avenue, Brooklyn, N. Y. Though reared in the florist business, and for over 20 years in the retail branch at 1287 Broadway, Brooklyn, Mr. Krick was best known to the trade as the originator of immortelle letters. In May and June, 1885, he manufactured and placed on the market the first letters of this kind ever used by florists in this country. He was also the inventor of numerous other devices, now in general use in the retail trade, noteworthy being his society emblems, monograms, flower pot hangers, handles, etc. His inventions received the highest award at the Pan-American exposition Buffalo, N. Y.

Mr. Krick was born in Jamaica, L. I., in 1859. He was the son of Chas. M. and K. Krick, pioneer florists of Long Island. He succeeded to the retail business established by his parents at 1287 Broadway, Brooklyn, many years ago. This place had greenhouses attached and a prosperous retail business was conducted. During all these years the manufacture of the immortelle letters was carried on in connection and a fine trade established. About four years ago he gave up the cut flower business and removed to 1165 Greene avenue, and since that time has been engaged exclusively in the manufacture of letters and his various other inventions. He was of a genial disposition and had many friends. He was a member of Ottman lodge of free masons and the New York Florists' Club. His funeral was held from his late residence, February 10, the masonic order officiating. He is survived by a widow, Lydia Rodman, an estimable woman, who will continue the business; three sons, Charles, Frank and George, and two daughters, Mrs. Martin Sherwood of Spring Valley, N. Y., and Miss Lydia Krick. He is also survived by one brother, Geo. M. Krick, formerly a grower of Elmont, L. I., and two sisters, Mrs. J. J. Baumgart, a long time florist of Brooklyn, and Mrs. H. Grebe of Van Wyelse avenue, Jamaica, L. I.

David Bearn.

Word has been received by letter in Philadelphia, of the death of David Bearn, at his old home in Scotland to which place he returned about eight years ago, after a residence of some 20 years in that city. Mr. Bearn came to this country about 1874, his first position being with Robert Bros. Later he went into business with John Kinners at Thirty-third and Wallace streets, where they built several greenhouses. After buying Mr. Kinners' interest and continuing the business several years, he sold his ground and moved the houses to Bola where he grew flowers for a number of years. His health failing, he sold out and returned to the land of his birth. "Davy" Bearn was a rugged, honest Scot who never lost any of the accent of his mother tongue. He took great interest in the Florists' Club of Philadelphia and the Pennsylvania Horticultural Society and was generally on one of the important committees of each of these bodies. K.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

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We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

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ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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ALTHOUGH opinions have been freely expressed to the contrary, latest official reports show that, at a low estimate, there is a sufficient supply of nitrate of soda in Chili to satisfy the entire world's consumption for 130 years.

FEBRUARY may be a short month but it is emptying the coal bins all right.

FORMOSA LILIES should be grown with a night temperature of not more than 50°.

WHERE a rich red bedding rose is needed Gruss an Teplitz may be chosen with confidence.

PLANTSMEN are giving close attention to their lilies now. The article signed "Grower" elsewhere in this issue will be found seasonable and practical.

FLOWERS of the wild arbutus were offered in Reading, Pa., during the week, having been gathered, according to the local press, in a sheltered, disused quarry.

GROWERS should take note of the coming show of the Boston Co-operative Flower Growers' Association which, as advertised in our pages, will be held February 27-28, at Horticultural Hall, Boston. This is a free show and will form a splendid opportunity for trade growers to exhibit anything they have to sell. All information can be obtained from Secretary Pierce, Waltham, Mass.

Society of American Florists.

PRIZES FOR TRAVELING MEN.

The following offer is made by President Valentine:

"For the purpose of enlisting the traveling men in securing new members of the Society of American Florists, I hereby offer a first prize of $50 and a second prize of $25 to the traveling man securing the two largest numbers of new members to the Society of American Florists between now and August 10, 1909.

"The conditions of the contest shall be that the winner shall be a traveling representative of some concern dealing in horticultural products or supplies, and he shall forward to the secretary as soon as received the money received for new memberships. No member shall be accounted a new one whose name appears in the published report for last year.

"Before any man can win either of these prizes the membership fees sent to the secretary by him, under this contest, must have been double the amount of the prize claimed. For the purpose of determining whether new memberships have been secured before August 10, the secretary shall include all memberships mailed to him bearing a post mark not later than August 10.

"Should any difference of opinion arise regarding the award under this offer, the matter shall be decided by the members of the executive committee present at the next annual convention of the society in Cincinnati, and their decision shall be final."

The writer will be glad to forward a supply of application blanks and addressed envelopes to any traveling man wishing to enter this competition.

W. N. RUDD, Sec'y.

February 12, 1909.

When Flowers Are a Glut.

ED. AMERICAN FLORIST:—

A question came into the question box at the last meeting of the St. Louis Florists' Club as to which would be better for the interests of the trade, whether the surplus, when flowers were a glut, should be turned over to the hospitals or be sold at ruinous prices. We must agree that flowers are a luxury and not a necessity, and therefore cannot be classed with fruits and foods of a perishable nature. It appears to me that when there is a glut of flowers on the market it would be much better if the surplus be donated by the commission man to the hospitals rather than sell them at prices which do not pay the grower and injure the retailer when he is endeavoring to hold up his end. An example of this was shown recently: Violets were sold at $2 per 1,000, a price which does not pay the growers to pick, bunch them and bring them to town. Now a good bunch of 25 violets can always be sold for 25 cents, and if the wholesale price would be $4-$5 per 1,000 a living profit can be made by the storekeeper who must put at times in fancy boxes and deliver. For example: A grower brings into the commission house 10,000 violets. If only 5,000 were sold at $4 he would still receive $20, as he would had they been all sold at $2. The past week saw violets jump from $2 to $6, and the general public wanted violets at 10 cents, whereas had the price been kept uniform it would have given more satisfaction.

An objection might be made to the wholesaler turning this surplus over to the hospital, but surely it could not be right for the retailer, as it might be urged that the retailer who was given a box of flowers to be given to the hospitals might use these as an advertisement for himself, and if certain wholesalers showed favoritism in furnishing these retailers then it might create jealousies between the retailers and get the wholesaler into no end of trouble. Then the wholesaler, of course, with the permission of his grower, would donate these flowers himself to the hospitals; he would use judgment; if he received good fresh flowers he would not be supposed to turn them over that day, but to hold them in his ice boxes in case of an unexpected demand. Now carnations of good quality if sold from October 1 till July 1 at not less than $2 per 100 could always be retailed at 50 cents per dozen or higher according to the supply. In the summer months not less than $1 per 100 and these could be retailed at 25 cents per dozen.

This would put an end to the fakir signs which at times adorn the windows of our so-called legitimate florists such as 10 and 15 cents per dozen, and thus reduce the level of a bunch of flowers to a bunch of soup greens. As these gluts are periodical, I believe this system would work; the grower would be better off and the retailer would keep his end up, insuring a fair and living profit for all, while the giving of these flowers would be as a gift from God to enliven up some of the poor creatures whose sufferings would be softened a little by beautiful surroundings.

W. F.

[Our correspondent puts his side of the case well, but we think there is another side. We shall be glad to hear from either growers, retailers or commission men on this matter, which is worthy of discussion.—ED.]

Meetings Next Week.

Baltimore, Md., February 22, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Boston, Mass., February 27, 11 a. m.—Massachusetts Horticultural Society, Horticultural Hall, 300 Massachusetts avenue. Address on "Rural New England," by Mrs. Charlotte R. F. Ladd, Sturbridge, Mass.

Boston, Mass., February 27-28.—Boston Co-operative Flower Growers' Association, commercial flower show.

Cleveland, O., February 22, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

Hartford, Conn., February 25, 8 p. m.—The Connecticut Horticultural Society, County building.

Lake Forest, Ill., February 24, 8 p. m.—The Horticultural Society of Lake Forest, Council Chamber, City hall.

Worcester, Mass., February 25.—Worcester County Horticultural Society, Horticultural Hall. Ladies' day.

The Japanese Air Plant.

A BUTTE, MONT., OPINION.

"Up at my house," said the man with the derby hat, "we have a plant called an oxygen plant. It is as green and fresh as can be, but it never has to have any water or anything. It just hangs in the air on a string and grows."

"So you fell for that yourself, did you? I'm glad to hear it," commented the man with the checked suit; "I surely am, for I've been keeping my little mouth shut for some weeks after a discovery I made."

"What discovery?" asked the man with a derby hat.

"The discovery that the oxygen plant is nothing at all but dyed moss and that it is an arrant fake, a bogus novelty, a hollow sham and a rich joke on all who bought it.

"The woman who peddled those things reaped a very nice harvest at 50 cents per harve, and she sure was there with the novelty talk. Oh, yes; it got us. Think of it, a handsome plant that never had to be watched or watered and that just hung in the air and grew. A plant in fact, that had so little use for water you were warned not to let water touch it.

"It was this fact, after the spell of the woman's talk had worn away, that made me suspicious, so I broke off a little piece of the plant and put it in a glass of water. In a few minutes the water was green and the branch of the oxygen plant assumed the appearance of old and faded moss such as you can pluck off the stones or stumps on any moist hillside.

"Yes it was an oxygen plant all right, but the woman who furnished the oxygen had gone her way. Now, when you go home tonight just break a twig off that wonderful plant of yours and see what a delicate and beautiful green you can turn the water. Beautiful, novel things, those plants. Somewhat on the idea of green carnations."—Butte Evening News.

Marguerite Carnations.

ED. AMERICAN FLORIST:—

Will you give me brief cultural directions on Marguerite carnations? I am sowing the seeds now in flats and intend to sell the plants for bedding out. Would it be a paying proposition to grow them along with other carnations, in the same house for winter bloom.

J. W. S.

These carnations are usually treated as annuals such as asters, stocks, etc., and thrown away after flowering. Their culture is simple and consists of sowing the seed in a greenhouse temperature growing the plants in a cool, airy house or frame and planting out at the end of May where they are to bloom. Although they flower fairly well under glass in winter, the flowers cannot compare with the usual market varieties and we should hesitate to grow them in any quantity.

Bulletins Recently Issued.

By the Department of Agriculture, Washington, D. C., "Declaration of Governors for Conservation of Natural Resources."

"Nuts and Their Uses as Food," by M. E. Jaffa.

"Cropping Systems for New England Dairy Farms," by L. G. Doodge.

"Dust Preventitives," by Prevost Hubbard.

"Unfermented Apple Juice," by H. C. Gore.

"The Rose Slugs," by H. F. Chittenden.

"Absorption By Soils," by H. E. Patten and Wm. Waggaman.

By the New York Experiment Station: "The Sporotrichum Bud-Rot of Carnations" and the "Silver Top of June Grass," by F. C. Stewart and H. E. Hodgkiss.

"Report of Analyses of Fertilizers Collected During 1908."

"Experiment Station Work" No. 342, edited by W. H. Beal.

By the Massachusetts Experiment Station:

"Shade Trees," by E. A. Start, G. E. Stone and H. F. Fernald.

By the University of Idaho Experiment Station:

"Planting Apple Orchards in Idaho," by J. R. Shinn.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—Practical gardener, married, good references, wishes position for next spring. Address
Key 781, care American Florist.

Situation Wanted—By a single man 32 years old; 15 years' experience; private or commercial place; state wages
Key 778, care American Florist.

Situation Wanted—As assistant gardener in private estate by Swiss; 27 years of age, two years in this country; has general experience.
Key 789 care American Florist.

Situation Wanted—In rose or carnation section by young single man, age 29, with several years' experince in both sections. Address
Key 779, care American Florist.

Situation Wanted—As gardener on private place or institution; life experience from Holland and this country; married, age 30, sober and industrious; best of references.
Key 784, care American Florist.

Situation Wanted—As gardener; have had 13 years' experience in the large gardens of Germany Russia, Belgium, Asia, Holland and Turkey and can give references. Address
Key 782, care American Florist.

Situation Wanted—A young all-'round general greenhouse man, with 8 years' experience wishes a position near Chigago; ready for engagement on the 5th of March; state wages in first letter.
Key 785, care American Florist.

Situation Wanted—As foreman; good grower of roses carnations, 'mums nursery stock, etc.; long experience on first-class wholesale and retail places; good wages, yearly contract, hustler, no drinker, references. HORTICULTURIST,
180 Grand St., Jersey City N. J.

Situation Wanted—As gardener by a thoroughly practical and competent man, expert in all branches of business, private and commercial, can handle any size place; A 1 roses, carnations, ferns, orchids; Pacific coast job wanted. Address
H. BREEN, Burlingame, Calif.

Help Wanted—A gardener for out door work, single, sober and a good worker. Address
Key 786, care American Florist.

Help Wanted—Reliable man, good grower of roses, carnations and bedding plants; give references in first letter and state wages wanted.
F. WALKER & CO., Louisville Ky.

Help Wanted—First-class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references,
Key 747, care American Florist.

Help Wanted—Young man of good character and good appearance who is an expert decorator and designer as well as good salesman in an up to date floral establishment; no other need apply.
Key 783, care American Florist.

Help Wanted—Energetio man as working foreman for landscape work; must be experienced in hardy plants, grading, pruning, etc., and capable of handling men to best advantage; state references and salary required. Address
Key 788, care American Florist.

Help Wanted—A gardener to take care of lawn conservatory, small greenhouse, garden, cow and chickens and do general outside work; good references required; married man; permanent place, good wages and apartment. Inquire
MRS. J. A. MCGILL,
4938 Drexel Boul., Chigago.

Help Wanted—First-class market gardener, one accustomed to growing vegetables in greenhouses and hotbeds, with some knowledge of carnations and bedding stock, and able to take full charge of 25,000 feet of glass; married man preferred; none but strictly sober person need apply; references. Key 753, care American Florist.

Wanted to Lease—With privelege of buying, small range of greenhouses in good repair; Indiana or Ohio. Address
Key 787, care American Florist.

Wanted—To lease and buy later, greenhouses with land; retail location; state size of houses; size of glass; full particulars. Address
BUSINESS, 180 Grand St., Jersey City, N. J.

For Sale—Some good 3 inch pipe guaranteed sound, 6c foot; several small boilers cheap.
W. H. SALTER, Rochester, N. Y.

For Sale—Or party to work greenhouses on shares; fine location in a Kansas town; good demand and growing; best of reasons given
Key 780, care American Florist.

For Sale—5000 feet of glass; no competition; can sell more than you can grow at highest price; write for particulars.
DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—An old established, first-class retail store with palm houses attached, in Chicago, south side; reason for selling, other business.
Key 659, care American Florist.

TO LEASE.

Established florists' business in a thriving southern city; 60,000 ft. of glass sale for everything you can grow, house well stocked with roses, carnations, lilaes, orchids, ferns, palms, etc., which will be sold at a reasonable figure; large plot now under cultivation suitable for truck gardening, also six-room dwelling adjoining same; best of reasons for wishing to lease at a low price. Address
Key 773, care American Florist.

For Sale.

One second hand Hot Water boiler capable of heating 3,500 ft. 4-in. pipe.

Superior Machine & Boiler Works,
125-133 W. Superior St., CHICAGO, ILL.

WANTED

Position as head gardener or superintendent, by thoroughly practical, active, energetic man; up to date in growing plants, flowers and vegetables under glass; ornamental planting care of trees, shrubs and hardy plants, and the developement and improvement of public and private grounds; Scotchman, 48 years of age, married, no children; please state salary and other particulars in first letter. Address **A. B., care American Florist,**
1133 Broadway, New York.

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,
125-133 W. Superior St. CHICAGO, ILL.

I Desire to Ask You a Favor,

Whether among your acquaintances you know a young man of very good family desiring to perfect himself in the French language and to study the culture of roses and nursery stock as we grow them around Paris. This young man would be given a room in our home, his washing, and receive $1.00 per day. He would not be subject to hard labor, but on the contrary would learn planting, grafting, pruning—in a word, everything that concerns labor in a nursery. In case you know such a person, kihdly put us in communication with him.

PIERRE COCHET, Suisnes, France.

FOR SALE.

Established wholesale and retail florist business, consisting of 25,000 feet of glass. This is one of the best places in central New York; everything being nearly new and in first-class condition. Has two boilers either one capable of heating the entire plant. The stock consists of a general line of plants and cut flowers, and is well equipped in every way. Here is your opportunity for a paying business. Come and look the place over and the plant and the books will prove all that I say Would also consider a proposition to rent.

E. J. BYAM, 408-16 Elm St, Rome, N. Y.

Advertisements should be mailed so as to reach us not later than Tuesday of the week in which they are intended to appear.

Detroit.

St. Valentine's day brought an impetus to the retail trade that was most welcome and refreshing. Contrasted with the dullness prevailing the past weeks, it was a most hopeful and promising indication of the slowly returning revival of the "good old days" in retail circles. Each recurring year, this happy day of the exchange of missives of good will and joy is becoming more and more important to the florists and particularly to those who make the most of the occasion by ample preparations to attract the attention of those seeking appropriate tokens expressive of the thoughts of the day, and the use of a little judicious advertising aids materially in developing a fast increasing trade just before the advent of the Lenten season. This year violets were in great demand and the supply unequal to it. Many carnations were sold and great quantities of bulbous flowers. In the latter, pot plants were most popular and a good trade was done in them. Azaleas supplied the call for a more expensive plant and many choice specimens tastefully trimmed carried joy to the recipients. A feature of the whims of the public was observed in the limited call for roses on this occasion; no shortage in the supply of this item of stock is reported and purchases were light. Owing chiefly to the continued shortage of carnations this winter bulbous stock has not, up to the present time, been so unwelcome as formerly, but nevertheless growers are cautiously placing their orders for bulb stock for the next season, the aggregate of which will fall far short of that of previous years. Roman hyacinths and Paper White narcissi are being eliminated entirely by some growers much to the pleasure of the carnation growers who feel that the product of Holland and France has encroached upon their product too much.

A fair sized blizzard greeted those who turned out to the Florists' Club meeting and carnation exhibition Monday evening, February 15, but the storm deterred but a few of the most timid and the result was a well attended and enthusiastic meeting. W. W. Gammage, London, Ont., was the star of the programme. He addressed the members on "Carnations." He related his experience with 28,000 plants grown last year, of which he carefully kept complete records of the cost and production of each variety, and the results were freely told in a most interesting manner. Some of his statements concerning different varieties of carnations were surprising revelations to many of the growers present. He also related his experience with different styles of greenhouses and was the target for many who asked questions concerning the same. A rousing vote of thanks was given the visiting essayist.

A. Miller, of Vaughan's Seed Store, and a former student of the Michigan Agricultural College, who was present, spoke most interestingly of the work of that institution and chided the florists for not learning from institutions of that kind the solution of the vexing problems often met with in greenhouse and field work.

Elmer D. Smith was also a visitor and promised to address the club on chrysanthemums at the meeting of April 26 next. The exhibition of carnations consisted chiefly of local grown standard varieties. There was no schedule of prizes offered but a committee of judges was appointed to pass upon the respective merits of the stock shown. The judges were W. W. Gammage, Geo. Browne and M. Bloy. The Chas. Knopf Floral Co., Richmond, Ind., showed Mrs. Chas. Knopf, an excellent flower several shades darker than Enchantress, good stem and an improvement.

Highland Park Greenhouses, Highland Park, Ill., showed Ruby, a crimson, large full flower, full calyx, and Lucille, a variegated variety, large fancy flower, similar to Prosperity, strong stems—looks like a winner. A Von Boeselager, Mt. Clemens, showed his new seedling, Clara, a deep crimson, large stiff stems, which scored 89 points and was regarded as very promising. A. Pochelon exhibited White Killarney rose coming from Pennock-Meehan Co. designated by the judges a decided acquisition.

J. F. S.

Pittsburg.

A GENERAL CLEAN UP.

St. Valentine's day was probably the best the trade has experienced in this city; there was a geenral clean up of everything at good prices, but, of course, violets were the leaders. Certainly we never saw so many at one time and by Saturday afternoon none could be bought in the city. Richmond and Killarney roses came next. These were very scarce to start with. Lilies, tulips, Paper White narcissi, Roman hyacinths and daffodils are all now plentiful. Roses are exceptionally scarce. A scarcity of lily of the valley, gardenias and orchids is also reported.

NOTES.

A. W. Smith probably sold more violets for St. Valentine's day than were ever disposed of in one day in any retail store. His run on dollar boxes kept several men busy on these for over 24 hours.

The Pittsburg Florists' Exchange was fortunate in having a nice supply of American Beauty roses.

For St. Valentine's day, The McCallum Co. had a nice supply of white violets.

Geo. A. McWilliams, Natrona, has again been selected for the grand jury.

Marion Morgan has left the employ of F. H. Westhoff, De Haven.

The Pittsburg Cut Flower Co. moved an immense quantity of violets.

Elmer Jolliff, of J. B. Murdoch & Co., is visiting western growers.

J.

COHOES, N. J.—F. Fennell has opened a new store at 187 Remsen street.

ERIE, PA.—The partnership heretofore existing between Chas. G. Offerle and Arthur G. Schaal, under the firm name of Offerle & Schaal, was dissolved on February 8, 1909, by mutual consent. All debts owing to said partnership are receivable by said Chas. G. Offerle, to whom also all claims and demands against the same are to be presented for payment. The business will be continued by Chas. C. Offerle.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs.. 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, BOSTON, MASS.

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax Ferns, Palm Leaves** and all kinds of **Green Goods.**

Galax, Ferns, Etc.

New crop, fresh from the patch, prices as follows:

Bronze and Green Galax Leaves...	$0.50 per 1000
Fancy and Dagger Ferns.....	1.00 per 1000
Green Leucothoe Sprays.....	2 50 per 1000
Bronze Leucothoe Sprays.....	4 00 per 1000
Rhododendron Sprays.....	2.00 per 1000
Mountain Laurel.....	2.00 per 1000

Discount on large orders. Fifteen years experience enables me to guarantee perfect satisfaction 250 customers now in U. S. Send cash with first order.

J. A. PRITCHARD, Elk Park, N. C.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,
EVERGREEN, ALA.

SOUTHERN WILD SMILAX

Give me your orders, will save you money.
Write or wire for prices,
Satisfaction Guaranteed.

J. E. PINKSTON,
LOUISVILLE, ALA.

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

WEST END, N. J.—Wm. G. Eisele of Cedar avenue is laid up with the grip.

KEARNEY, NEB.—On January 29 H. C. Green lost, by fire, three greenhouses and entire stock of plants; the fire was incendiary. One house of carnations and one lettuce house was saved, but much of the glass in the two houses was spoiled. He will build up again, using concrete walls and benches.

FORMOSA LILIES

We are cutting 500 lilies per day. Extra choice, with long stems, $12.00 per 100.

Beauties, Richmond, Killarney, Maids and **Brides** are grand in quality now.
Fancy Carnations, Bulb Stock and **Greens.**

AMERICAN BEAUTIES.

	Per doz.
Extra long	$ 6.00
Stems 24 to 30 inches	4.00
Stems 20 inches	2.00
Stems 15 inches	1.50
Stems 12 inches	1.00

KILLARNEY and RICHMOND.

Extra long and select, per 100	$10.00 to $12.00
Good average length, per 100	8.00
Medium lengths, per 100	6.00
Short lengths, per 100	4.00 to 5.00

BRIDES, MAIDS and PERLES.

Extra long and select, per 100	$10.00
Good average lengths, per 100	8.00
Medium lengths, per 100	6.00
Short lengths, per 100	4.00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100	$ 4.00	to	$ 5.00
Fancy white, good stock, per 100			4.00
EASTER LILIES, Giganteum, per doz., $2; per 100			$12.00
LILY OF THE VALLEY, per 100	2.00	to	4.00
FANCY PINK	2.00	to	4.00
TULIPS, All Colors, per 100	2.00	to	4.00
GOLDEN SPUR NARCISSUS, per 100	2.50	to	3.00
ASPARAGUS STRINGS, heavy, per string			.40
ASPARAGUS SPRAYS, per 100	3.00	to	4.00
SPRENGERI, per 100	2.00	to	3.00
SMILAX, per doz			1.50
ADIANTUM, per 100			1.00
GALAX, bronze, per 1,000			1.50
GALAX, green, per 1,000			1.25
FERNS, per 1,000			2.00

O. P. BASSETT

The Ideal Red Carnation

Here is what it did at the Convention of the American Carnation Society in Indianapolis, January 27th and 28th:

First---As the Best Red Carnation.

Bronze Medal of the American Carnation Society as the third best vase of 100 blooms any color, and

Cash Prize of $30.00, Gold, in class A, any color or variety.

O. P. Bassett has been grown by us for six years and has been thoroughly tested out in the various shows and on the market. It has never been beaten. If you are looking for the best Red Carnation then order the Bassett.

PRICES:

Rooted Cuttings	per 1000, $60 00	Rooted Cuttings	per 50, $4 50
" "	per 500, 35 00	" "	per 25, 2 50
" "	per 100, 8 00	" "	per 12, 1 50

We also offer Kaiserin and Perles at $3.50 per 100, and Maids, Brides and Richmonds at $1.50 per 100; all well rooted cuttings.

Bassett & Washburn

Greenhouses: Hinsdale, Ill. Office and Store: 76-78 Wabash Ave., CHICAGO.

White Lilac Large supply, quality fine; $1.50 per bunch.
Killarney Fine quality. Superior to any in Chicago.
Violets In good supply, both double and single.
BULB STOCK in good supply. We can meet your wants. And all other CUT FLOWERS and GREENS. Best that can be grown and packed with care.
Send for Our Catalogue of Florists', Growers' and Nurserymen's Supplies.
A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

TRADE GOOD, STOCK SCARCE.

Trade held up exceptionally well all last week, the two holidays of Lincoln's birthday and St. Valentine's day both contributing to create a good call for stock. St. Valentine's day is each year becoming more of a day for the flower trade, and has been contrasted with Thanksgiving day in this regard which in the past year or two proves little more than "a good Saturday." Lincoln's birthday took numbers of American Beauty and miscellaneous roses and red carnations. Of course, violets were the chief factor for valentines. But other flowers were also in good demand. The stormy weather of the past two weeks has made roses scarce, and carnations poorer with those of good shipping qualities largely lacking. As a consequence there were large lots of split and inferior carnations seen, but orders were not infrequently only partially filled, especially where red were called for. American Beauty roses are very scarce with little to be said for their quality. Richmond and Killarney roses were in very good demand, but were hard to get at any reasonable prices. Bride and Bridesmaid roses are far from being seen in quantity but quality was good. Violets continued in heavy supply and even with the large call for stock with which to fill valentine boxes, prices remain low. Bulb stock was in good supply, but the call for other flowers helped this feature also, so that the market was fairly well cleaned up. Paper White narcissus is now practically done for.

NOTES.

H. R. Hughes of 690 W. Van Buren street put up a most pleasing and original window for Lincoln's centennary, the split rail fence and log cabin idea being finely carried out. In addition, Mr. Hughes had such side "properties" as a spinning wheel, musket and other things of a by-gone but not forgotten age typical of the great emancipator. A fine painting of Lincoln was also included and a well written card headed Abraham Lincoln with a picture of a portion of his window on the reverse side was mailed as usual to his customers. Mr. Hughes looks upon these cards and the manifold attractions of his windows as his best business "drummers."

Sam Pearce has his stock of bulbous flowers in prime condition, his Yellow Prince tulips being exceptionally fine flowers. In La Reine tulips some of the finest pink shades were produced that we have yet seen. Dutch hyacinths also were fine, the dwarf plants for cutting attracting particular attention. A leading feature of this place is the lily section, fine, healthy, stock (mostly Giganteum), being brought along and giving promise of excellent results for Easter.

The home of Wm. Kidwell, near the corner of Forty-third street and Ellis avenue, was destroyed by fire at 2 a. m. Sunday morning, during the very worst of the storm that was then blowing off the lake. He and his family had barely time to escape. Mr. Ruble, of the Fleischman Floral Co., who lives just opposite, played the role of the good Samaritan, providing both clothes and shelter for the rest of the night.

Chas. W. McKellar
51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty
Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.
Send for Complete Catalogue.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
My plan for saving you money in your buying would interest you. If you are a buyer of cut flowers let me hear from you.
21 Wabash Avenue, CHICAGO.

A bill was introduced in the house of representatives at Springfield by F. E. Ericksen to build a public auditorium on the lake front, to be used for industrial exhibitions and public gatherings, on a site furnished by the South Park commissioners. If this goes through it is to be hoped that suitable quarters will be provided for the Horticultural Society's meetings.

A fire in the conservatory and store of Edward Mendonza, 4254 Grand boulevard, early in the morning of February 11, destroyed property to the value of $500. The fire is said to have been caused by an overheated furnace.

Jens Jensen, superintendent of the west side parks, has resigned that position and now holds that of consulting engineer at about one-third his former salary.

T. E. Waters, who has been on the road for the A. L. Randall Co., is in town again. This house reports having cleaned up well on Valentine's day supplies.

The Aug. Dressel estate has been finally closed, the creditors receiving 100 per cent and 16 per cent interest, and the bankrupt and wife receiving about $1,900.

Leonard Kill, of Peter Reinberg's, says his house shipped American Beauty and Richmond roses last week to both Boston and Philadelphia.

The Rock Island railway people have started a flower shop in the La Salle street station, every appointment being of the finest.

Harry Rowe reports an exceptionally heavy business for St. Valentine's day.

(CONTINUED ON PAGE 182.)

PETER REINBERG,
35 Randolph Street, CHICAGO.
Phone Central 2846.
Largest Grower in the world.....
Will Take Best Care of Every Order.
1,800,000 Feet of Glass.

PRICE LIST:

Carnations $2.00 to $3.00 per 100

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$6 00
36-inch stems	5 00
30-inch stems	4 00
24-inch stems	3 00
20-inch stems	2 50
15-inch stems	2 00
12-inch stems	1 50
Short stems	1 00

	Per 100
MRS. MARSHALL FIELD	
Extra select	$10 00 to $12 00
Medium	5 00 to 8 00
RICHMOND and KILLARNEY	
Select	10 00 to 12 00
Medium	5 00 to 8 00
GOLDEN GATE	4 00 to 8 00
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and BRIDESMAID	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
VIOLETS	1 00
ADIANTUM	1 00 to 1 50
ASPARAGUS	75c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

WEILAND & RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

E. F. Winterson Co.

45-47-49 Wabash Ave, CHICAGO.
Long Distance Phone, Central 6004.

Wholesale Cut Flowers and Florists' Supplies

All cut flowers in season at Chicago market quotations

Write for our NEW SUPPLY CATALOGUE. It will interest you.

Consignments of CUT FLOWERS Solicited.

"THE BUSIEST HOUSE IN CHICAGO"

Roses, Carnations,

And All Seasonable Flowers in Quantity.

J. B. Deamud Co.
51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders ——given prompt attention.——
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty.....
WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO, Feb. 10.

Roses, Beauty, extra select	6 00
" " 36 in	5 00
" " 30 in	4 00
" " 20 to 24 in	2 50@ 3 00
" " 15 to 18 in	1 50@ 2 00
" " 12 in	1 00
" " Short	75
	Per 100
" Bride, Bridesmaid, select	10 00@12 00
" " " medium	6 00@ 8 00
" Chatenay, select	10 00@12 00
" " medium	6 00@ 8 00
" Golden Gate, Uncle John	6 00@10 00
" Kate Moulton	6 00@15 00
" Killarney, select	12 00@15 00
" " medium	8 00@10 00
" Mrs. Marshall Field, select	12 00@15 00
" " " medium	6 00@10 00
" Perle	6 00@12 00
" Richmond, extra select	12 00@15 00
" " medium	8 00@10 00
" " short	6 00
Carnations	2 00@ 4 00
Callas, per doz.	2 00@2 50
Cattleyas, ($9.00 per doz.)	60 00@75 00
Daisies	50@ 2 00
Freesias	3 00@ 5 00
Gardenias, per doz	6 00
Hyacinths, Roman	3 00@ 4 00
Lilium Harrisii, per doz.	2 00 15 00
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	4 00
Pansies	1 50@ 2 00
Stevia	1 00@ 2 00
Sweet Peas	75@ 1 50
Tulips	3 00@ 4 00
Violets, single	75@ 1 50
" double	75@ 1 50
Adiantum	75@ 1 00
Asparagus Plum, strings, each	50
" " sprays	2 00@ 4 00
" Sprengeri	2 00@ 4 00
Boxwood, per bunch	35
Ferns, fancy, per 1000	2 00
Galax, green, per 100 15; per 1000	1 00
" bronze, per 100 15; per 1000	1 00
Leucothoe sprays	75@ 1 00
Smilax, Wild, per 50-lb. case	5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

THE BEST OF EVERYTHING

Brides, Maids, Carnations, Harrisii Lilies, Callas, Jonquils, Sweet Peas, Green Goods

We have the goods — everything in season. We can supply anything to be had on the Chicago market. Quality and service count, too. Our business is increasing every season, and you know we'll do every right thing in our power to make and keep a good customer.

SEND US A TRIAL ORDER.

ZECH & MANN, Wholesale Florists, Long Distance Phone Central 3284 51 Wabash Avenue, Chicago

Chicago Notes.

CONTINUED FROM PAGE 180.

Miss Martha Gunterburg, of the Flower Growers' Market, says Valentine's day this year was like "a little Christmas."

Chas. Penshorn, an old time florist, is disposed to retire and will offer his well established business and land for sale.

Andrew McAdams is spending the winter on the Indian river in Florida and is not expected home before Easter.

Bassett & Washburn report an average sale of over 1,000 O. P. Bassett carnations a day for last week.

The committee for the good of the club is planning a card party for the Florists' Club next month.

C. W. McKellar is now getting orange blossoms which he says can be supplied on two days' notice.

Zech & Mann are now receiving some exceptionally fine Bride and Bridesmaid roses.

St. Louis.

PRICES BETTER.

The week just ended showed up better and prices stiffened; carnations took a brace and on Saturday $4 per 100 was obtained for good stock. Violets also stiffened, $3.50 to $4 per 1,000 being asked last Wednesday, and on Saturday, $6, and all were cleaned up as St. Valentine's day had the call. Southern jonquils are in and influence the home grown product a little. The weather has been very unsettled.

CLUB MEETING.

One of the most enthusiastic meetings of the year was that of the Florists' Club last Thursday afternoon. The meeting was attended by about 40 members and many strangers. The carnation show was the feature and Will Young was in the chair. A resolution was passed to get together a committee to secure a bowling and shooting team to represent this city next August at Cincinnati. Adolph Brix brought forward a motion to suppress, if possible, the doings of certain crepe pullers who go around soliciting orders and presenting as evidence of their standing the names of prominent florists. Quite a discussion followed and President Young appointed Messrs. Windt, Schoenle and Briggs as a committee to thoroughly sift the matter. There was an animated discussion over a communication in the question box as to whether it would not be more advisable, during a glut of flowers, to dispose of the surplus by donating them to the hospitals rather than selling them at ruinous prices.

Judges of awards were Messrs. Lombard, Denker and Pier Snyder. After the meeting the carnations were handed over to Will Smith of the Smith Wholesale Floral Co. who appointed Henry Ostertag as auctioneer and the flowers were auctioned off at top prices for the benefit of the club. The members and visitors were then escorted in a body to the Bismark cafe where an elegant spread was set. After refreshments were disposed of speeches and jokes were in order. J. J. Beneke was the toastmaster. Speeches were made by J. J. Beneke, Will Young, Fred Ammann, E. W. Guy, J. J. Karins, Philadelphia, Frank Weber, Henry Ostertag, Geo. Angermueller, W. Smith, C. W. Wors, Frank Fillmore and his father, and Walter Retzer. It was announced that at the next meeting there would be a rose show and that a flower show on a grand scale would be given next fall.

AWARDS.

Red Beacon.—Pilcher, first; J. Steidle, second.

Light Pink.—J. Steidle, first, with Rose Pink Enchantress.

Variegated.—J. Steidle, first, with Patten.

Mixed vase.—Fred Ammann, first.

Dark Red.—John Steidle, first, with Harlowarden.

The following seedlings, all over 80 points, were awarded certificates of merit:

Lucille, shown by A. F. Longren, Highland Park, Ill., 89.

Mrs. Charles Knopf, shown by the Charles Knopf Floral Co., Richmond, Ind., 90.

Ruby, shown by Knopf Floral Co., 89.

Sagamo, shown by A. C. Brown, Springfield, Ill., 88.

Superba, shown by A. C. Brown, 87.

NOTES.

Several thousands of California violets were disposed of by the wholesale houses Saturday and Sunday for St. Valentine's day. There was also a good demand for red carnations.

Ostertag Bros. had the decorations at the Cinderella ball at the Coliseum and disposed of many carnations.

Young & Sons had the decorations at the second annual ball of the Imperial club.

Visitors: I. Rosnosky and Martin Reukauf, Philadelphia; A. C. Brown, Springfield, Ill.; E. W. Guy, Belleville, Ill.; Johann, Collinsville, Ill.; Fred Ammann, Edwardsville, Ill.; E. Denker, St. Charles; J. J. Karins, Philadelphia.

W. F.

Cincinnati.

TRADE IMPROVING.

There was a marked improvement in business the past week and St. Valentine's day helped to clean up all the available stock. Prices were a shade better than last week and about the only shortage of stock was on roses. However, we read the trade reports from other cities offering the same complaint, therefore, we have to make the best of it. Other flowers are equal to the demand and green goods of all kinds are active and in full supply.

The meeting of the Florists' Society held in the salesroom of Weiland & Olinger Saturday night, was well attended and great interest shown in the proceedings. Wm. Niehaus and R. C. Witterstaetter were elected to membership. Dan. Carmichael of the souvenir committee reported progress, and E. G. Gillette for the hall committee said that the deal for Horticultural Hall and the Odeon were practically closed up with the exception of the insurance which is a little excessive and the committee is working to have this reduced. The secretary was instructed to notify all the members of the society that some time in March, the executive committee of the Society of American Florists will meet in our city and the society will tender it a banquet at the Sinton hotel. Covers will be laid for all who wish to attend and plates will cost $5 each. Kindly notify E. A. Forter, 232 W. Fourth street, if you desire to be among those present and he will place your name on the list. After the meeting there was a Dutch lunch and cigars and all the members are requested to meet at the clubrooms in the Jabez Elliott Flower Market Saturday, March 13, 1909, at 8 p. m. Don't forget time and date.

We hear with much regret that our friend Wm. Speck of Newport, was stricken with paralysis the past week. At the meeting Saturday, D. Ruscoui reported that he called upon the patient during the day and that he was progressing nicely, which report was very gratifying, as none of the craft about this city has more friends than Billy Speck.

Geo. Tromey of Tromey's Flower Shop has been very busy with funeral work lately. At present he is also remodeling his store, putting mirrors and brackets all along the sides. When completed this will be one of the neatest stores in this city. George is certainly a hustler.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

— PRICE LIST —

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75
	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	4 00
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00
ROSES, Our Selection, $5.00 per 100	
Carnations,	Per 100
Fancy	$ 3 00
Good	$ 1 50 to 2 00

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Tom Windram returned from Florida on Friday night, where he has been for the past six weeks inspecting his asparagus farm and incidently doing a little hunting and fishing. His son Charley was with him and said he had a bully time chasing the black snakes.

Peter Weiland came down from New Castle Saturday night and was present at the florists' meeting. Peter says his roses are a little off crop at present but he will have a good crop for Easter.

It is said that Arthur Becker, of the Avondale Floral Co., is very much in love and will do something rash in the near future. S.

Louisville.

TRADE SATISFACTORY.

Business conditions the past week were good, owing greatly to St. Valentine's day. Roses were in fair supply and of good quality. The demand was very good. Carnations of good quality sold very satisfactorily and were in fair supply. Sweet peas, violets, lily of the valley, etc., had a good demand, were of good quality and in fair supply. Bulbous stock can be had in great quantities of good quality and sells well. Smilax is plentiful. Other greens are a little scarce. Other stock and flowering plants can be had in great quantities of good quality and find a satisfactory demand.

For a St. Valentine's day window, Mrs. W. D. Reimers had a large red satin heart pierced with white satin arrow and quills. The heart was decorated with small crystal vases filled with large single violets and forget-me-nots, the vases concealed with handsome ribbon. In the center of the window a beautiful old gold basket was filled with choice violets and lily of the valley, also heart shaped baskets with forget-me-nots, lily of the valley and violets. The demand for violets and small flowers was very good. During the president's short stop in this city Mrs. Reimers sent Mrs. Roosevelt and Miss Ethel Roosevelt handsome boxes of flowers. F. L. S.

Buffalo Cut Flower Co.

WHOLESALE FLORIST,

Give Us a Trial.

495 Washington Street,

BUFFALO, N. Y.

Long Distance Phones:
Bell Seneca 3772. Frontier 3607.

Wholesale Flower Markets

ST. LOUIS, Feb. 17.

Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 2 50
" " short stems	50@ 1 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	5 00@10 00
" Ivory	4 00@ 8 00
" Killarney	6 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	5 00@ 8 00
" Richmond	5 00@ 8 00
" Alice Roosevelt	6 00@10 00
Carnations, common	1 00@ 1 50
" fancy	2 00@ 3 00
Freesia	1 50@ 2 00
Hyacinths Romans	1 50@ 2 00
Lily of the Valley	3 00
Narcissus, Paper White	2 00
Violets	40@ 50
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000	$1 75
Smilax	12 50

CINCINNATI, Feb. 17.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Hyacinths, Roman	2 00@ 3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	3 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Feb. 17.

Roses, Beauty, special	10 00
" fancy	6 00
" shorter	2 00@ 4 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@15 00
Carnations	2 00@ 4 00
Callas	8 00@10 00
Daffodils	3 00@ 4 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	3 00@ 5 00
Narcissus	2 00@ 3 00
Tulips	3 00@ 4 00
Violets	75@ 1 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	1 50
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00
Smilax, Wild, per case	3 00@ 5 50

MILWAUKEE, Feb. 17.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	2 00@ 4 00
Hyacinths, Roman	2 00
Lilium Giganteum	10 00@12 50
Lily of the Valley	3 00@ 4 00
Narcissus, Paper White	2 00@ 3 00
Sweet Peas	50@ 75
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch, 25	35
" Sprengeri, "	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz.	1 50

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Who esale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

THE

J. M. McCullough's Sons Co.

Wholesale Commission Florists.

CONSIGNMENTS SOLICITED.

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones. ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

GRAND RAPIDS, MICH.—The greenhouses in John Ball park will probably be moved from their present location.

New York.

STOCK MORE PLENTIFUL.

There has been an increase in the quantity of nearly all stocks arriving during the past week and as a consequence, prices in general have fallen. The exceptions were special American Beauty and the best grades of other roses, which were not in great supply. Special American Beauty hung around $1 each, and large orders were hard to fill. Narcissi, tulips and sweet peas were much more plentiful, also carnations, and the prices in these commodities fell off, the most pronounced drop being in bulbous stocks. Orchids and violets showed but little change, but prices on violets stiffened up on Saturday. This was probably due to St. Valentine's day orders and good "violet weather," meaning fair and mild, when violets can be worn. The centennial of Lincoln's birthday was generally celebrated and various events in this connection, helped to round out the week's business. There is a plentiful supply of short American Beauty roses, grading No. 2 and 3, but there is no extraordinary demand for them. There is a fine showing of flowering shrubbery to be seen in the retail stores. Small weeping willows are now being forced to show the buds or "pussys," and decorated with ribbons they form novel and attractive features in show windows. Very fine flowering plants of camellia rhododendron and azalea may be seen, and primroses are numerous. Lilac is coming in freely and is being used with fine effect by the designers and decorators.

February 15.—The only change in the condition of the market is a tendency toward lower prices. Though it is claimed that a few special American Beauty roses sell for $1 each, more are going for 75 cents. Tea roses, carnations, sweet peas and bulbous stocks are more plentiful. The weather is mild, which indicates an increased supply during this week. Though St. Valentine's day business was fair, it was not extraordinary. No special efforts were made by the designers in offerings for that day. A few pierced hearts were seen, but they were exceptions. Orchids and red roses sold well.

THE CLUB DINNER.

The dinner committee of the Florists' Club is much gratified with the results of its efforts thus far and announces that already, one half of the seats are sold. As previously announced, the dinner will be held in Shanley's, Forty-second street and Broadway, on the night of February 27.

The president's reception in the large room, immediately below the Roman banquet hall, at 6 to 7, promises to be an hour of general interest. President Hallock desires to meet every member of the club, and his wife (or sweetheart), at this reception. The reception committee which will assist Mr. Hallock is composed of Ex-Presidents Walter Sheridan, Frank H. Traendly, P. O'Mara, C. H. Totty, John Scott and Chas. B. Weathered. Remember the reception begins at 6 p. m. and the dinner will be served promptly at 7. The decoration committee appointed by President Hallock includes: Alex. McConnell, J. B. Nugent, Jr., Harry Hoffmeyer, C. Koenig, Julius Roehrs, Jr., Alfred Zeller, Anton Schultheis, Jr. Van Vleet's celebrated orchestra will furnish music.

NOTES.

J. Benson Stafford who has been employed by Geo. M. Stumpp for the past two years, announces the opening of a flower shop in Buffalo, his former home. The interior decorations of the store will be executed after the Roman style, useing the pergola effect. Mr. Stafford's store will be of the highest order, and he will cater to the most exclusive trade, which he will be in a position to serve by Easter. In his experience with Geo. M. Stumpp of this city and W. J. Palmer of Buffalo, Mr. Stafford has shown marked originality and has proven himself to be an artist of the highest order. His hosts of friends both here and in Buffalo predict a successful future for him.

Samuel A. Woodrow, 53 West Thirtieth street, has filed a petition in bankruptcy with liabilities of $5,031 and assets of $656, consisting of horse and wagon, $200 accounts, $151 claims, $251 gas deposit and rebate, $19 and life insurance, cash value $35. Among the creditors are J. B. Ezechel, Mr. Woodrow's bookkeeper, $1,098, Wm. Starke, $400 and Lehnig & Winnifeld, Hackensack, N. J., $450. Mr. Woodrow started in business in April, 1907.

John Weir, the well known Brooklyn retailer, is ill and was unable to attend the buying in Twenty-eighth street, February 15. It is said that this is the first business day that Mr. Weir has missed for over 25 years. It is not believed that his illnes is serious and all who know him hope that it is not.

Abram Jacobs, a young man well known in the cut flower district, has bought the retail business of Chas. A. O'Reilly, 198 Columbus avenue, and will continue in the retail line. It is understood that Mr. O'Reilly will go into the real estate business.

The old Spanish prison confidence game was tried on Wm. Gunther, who was offered the golden opportunity of obtaining $160,000, but Mr. Gunther failed to bite.

The new bowling team of the Florists' Club will hold its first gathering on Monday evening as outlined in "Our Pastimes" page.

Buffalo.

TRADE GOOD.

Trade the past week has been very good, with very changeable weather. The Lincoln ceremonies were not very beneficial, although several retailers had very pretty windows, but what was lacking for Lincoln's day was offset by trade on St. Valentine's day. It is safe to say that the florists were never more busy than on Saturday and Sunday, unless it was at Christmas or Easter. St. Valentine's day, coming as it did on Sunday, and a judicious use of printer's ink, called the attention of the engaged young man, the willing to be and all others that there was nothing more appropriate or choice than a bunch of violets, lily of the valley or spring flowers to gladden the hearts of the fair ones. Tulips and daffodils are plentiful now.

NOTES.

The election of officers of the Florists' Club promises to be spirited, as there are two or three candidates for each office.

W. C. Buachi of Pine Ridge is very prominent in the Red Men and is a member of the grand lodge.

Since the dropping of the lid at Pine Ridge Captain Forbach has had some funeral work.

S. A. Anderson is getting a fine lot of azaleas from his Elmwood avenue greenhouses.

L. H. Neubeck is serving the county on the jury for the next two weeks.

BISON.

Washington.

GOOD VALENTINE TRADE.

St. Valentine's day was almost like another Christmas, considering the amount of flowers that were disposed of. Every retailer in the city worked hard until late in the night getting up the orders for the following day. Violets, in bunches, and made up in heart shaped hampers sold well. All other flowers, and a good many plants were disposed of easily; there was an unusual demand for orchids, and the only flowers that were scarce were American Beauty roses and few would make promises to fill orders for them. Nearly all of the stores had some special valentine design, of the heart and arrow style in their windows and one showed a unique Lincoln window, in memory of Lincoln's birthday. The feature of this window was a fence made of rails, a fair sized log, and an old ax; in the background was set in a rustic frame the portrait of Lincoln.

NOTES.

The Gude Bros. Co. is exhibiting some pretty arrangements of white lilac, azaleas, and bulbous stock in the F street store window. This firm is also cutting excellent Killarney, My Maryland and other standard roses.

Geo. C. Shaffer used a good number of azaleas, lilacs and Adiantum Farleyense for the decorations, at the Argentine legation. The centerpieces were made pyramid shape, and consisted of Killarney roses and white lilac.

Geo. Comly of Georgetown reports excellent progress at his Wisconsin avenue store. He disposed of his market stand, because he could not devote his time to both places.

Alex Garden, is cutting some excellent tulips, lilacs and carnations.

G. S.

Orange, N. J.

The president's reception and annual smoker of the New Jersey Floricultural Society was held on Friday, February 12. The evening was devoted to social intercourse. An oration upon the life and services of Charles Darwin was made by the Rev. Lewis H. Lightipe. Addresses by Charles H. Totty, Frederick and Charles Atkins, of Bobbink and Atkins, Rutherford, Edward Regan, secretary of the Morris County Gardeners, Chas. MacTaggert of Thorburn's Seed Store and W. E. Maynard, of the Gardener's Chronicle. The Rickards Bros. gave their character songs and Andrew Wilson of the Plant Oil Co., of Chatham, danced and told funny stories, and C. B. Lust gave selections upon the banjo. The imperial quartet rendered a musical programme.

The usual display of flowers filled the tables. Julius Rohers Co. contributed a table of orchids and greenhouse climbers, and a vase of particularly fine lily of the valley, the finest Mr. Roehrs declared he had imported in 30 years, remarkable for length of stem, size of flower and fragrance. Thomas Jones of Short Hills, showed orchids, and carnations, violets, hyacinths, freesias, cyclamens came from neighboring estates. The judges for the evening were Edwin Thomas, Jos. A. Manda and Arthur T. Caparn.

J. B. D.

Hartford, Conn.

The regular meeting of the Connecticut Horticultural Society, was held in the County building, February 12. President Huss in the chair. Two new members, Thos. Hallet of the department of parks, and E. R. Pyle, were elected. President Huss reported having received $25 from A. T. Boddington, New York, to be offered as premiums in the vegetable class at the fall exhibition. A photograph was received by the society of Mr. May, who, after being connected with the J. J. Goodwin estate for 40 years, will make his future home in Florida. Mr. May is a life member of this society, and in going away carries its best wishes. The business meeting was followed by an enjoyable smoker and whist; the first prize, a handsome clock, was captured by John Gerard; the second, a bust of ex-president Lincoln, went to J. Vidbourne, and the third was won by J. Broderib. A bunch of catalogues from Elmer D. Smith & Co. was on hand, and were rapidly absorbed by the members. The meeting of February 26, will be carnation night and exhibits addressed to the county building will be received and well cared for by a committee.

A. C.

J. K. ALLEN,

Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

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WHOLESALE FLORISTS,

44 West 28th Street, New York City.
Phones, 798 and 799.

HENSHAW & FENRICH

WHOLESALE FLORISTS

44 West 28th St., Phones: 325 and 5583 Madison Square. NEW YORK

Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS

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Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK

42 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

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54 West 28th Street, NEW YORK.

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

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JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

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Telephone 1998 Madison Square.

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N. C. SCHREINER

Wholesale Commission Florist

ROSES A SPECIALTY

41 West 28th Street,
Telephone 6259 Madison Sq.. NEW YORK CITY

John Young

WHOLESALE FLORIST,

51 West 28th St., NEW YORK CITY

Long Distance Telephone, 4463-4 Madison Sq.

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CUT FLOWERS

Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited

ALFRED H. LANGJAHR

WHOLESALE FLORIST,

55 W. 28th Street, NEW YORK.

All flowers in season. Consignments of first-class stock solicited.

Telephones, 4626 and 4627 Madison Sq.

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Feb. 17.

		Per 100
Roses, Beauty,	special	60 00@75 00
" "	fancy	40 00@50 00
" "	extra	30 00@35 00
" "	No 1	15 00@20 00
" "	No. 2	5 00@ 6 00
" "	No. 3	2 00
"	Bride, Bridesmaid, extra and special	8 00@10 00
	No. 1	4 00@ 6 00
	No. 2	2 00
"	Killarney, special	12 00@25 00
	extra	10 00
"	Richmond	2 00@20 00
Carnations	fancy and special	4 00@ 5 00
"	common	1 50@ 2 00
Callas	per doz.	75@ 1 25
Cattleyas		30 00@50 00
Freesias		50@ 1 50
Gardenias	per doz.	1 00@ 4 00
Hyacinths		50@ 2 00
Lilac, Cut	per bunch	75@ 1 25
Lilium Longiflorum		8 00@12 00
Lily of the Valley		1 50@ 2 50
Mignonette	per doz.	50@ 75
Narcissus (Paper White)		2 00@ 2 50
" (Yellow)		2 00@ 3 00
Sweet Peas	per doz bunches	1 00@ 2 00
Tulips		1 00@ 3 00
Violets		35@ 75
Asparagus	doz. bunches	2 00@ 3 00
Smilax		8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.
Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Fresh Flowers

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Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

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HORACE E. FROMENT

WHOLESALE CONMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephones: 2200 and 2201 Madison Square.

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WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

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To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave. & W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising

V. S. DORVAL, Secretary.

Philadelphia.

GOOD BUSINESS.

The past week has been one of continued activity, gradually increasing until Saturday when the extra business on account of St. Valentine's day used up about all there was worth having; prices held firm for Saturday. The supply of roses and carnations has not kept pace with the demand, American Beauty being particularly scarce. The teas, while scarce, were to be had in fair quantities, the growers and dealers looking out as far as possible for their regular trade. Tulips, daffodils and freesias were plentiful and the daffodils went off $1. to $3 per 100. Sweet peas are selling well, there scarcely being enough for the demand. Green goods are getting scarce, the bunches of asparagus being now only about half the size of those of a month ago. There is a fine show of flowering plants now coming in. Azaleas, hydrangeas, lilies, lilacs, primulas, cinerarias, daisies, daffodils and tulips in pans and pots are seen in profusion. They appear to be in good demand. A fern not generally seen in large sizes is being offered by the Floracroft Nurseries. It is the common Pteris tremula but as grown by Mr. Stokes it resembles, with its broad leaves, the famous cibotium. It is a fast grower and can be sold for one-third the price of the cibotium.

EFFECTS OF THE STORM.

A devastating wind storm visited this city on Monday, February 10, about 1:30 p. m. and did considerable damage. The worst sufferer is W. K. Harris where the whirling cloud in center of the storm caught the western end of his houses and tore the ends out of nine of them as well as taking out quite a lot of the ventilators for the other houses. It will cost something over $4,000 to repair the damage. The storm only lasted about a minute or two; the damage appeared to be caused by suction. The vacumn caused by the rapidity of the wind drew the ends of the houses out, wrecking the woodwork and twisting iron pipes like so much wire. Fortunately the weather was not severe and the houses were boarded in temporarily before there was any danger from frost. The next day saw a number of assistants from neighboring florists. Messrs. Craig and John Burton sent some of their handy men, and these with the carpenters, before the week was out repaired much of the damage. The Philadelphia Carnation Co. and the Philadelphia Cut Flower Co., both of whose greenhouses are near Morton in Delaware county, lost considerable glass by the high wind. La Gierse of Forty-eighth and Lancaster avenue, suffered damage to two houses. Zimmer, of Collingswood, N. J., lost about $50 worth of glass and there were others who had smaller losses from the storm.

NOTES.

The Leo Niessen Co. says it had a very good week, there being a general clean up on Saturday on account of the demand for St. Valentine's day. The shipping trade had been very good. Some grand carnations were seen here the past week.

Wm. McKissick & Bros. say their only trouble is to get stock, the demand more than keeping pace with the supply. The features the past week have been a fine assortment of bulbous stock, sweet peas and carnations. They are receiving very fine Mrs. Jardine roses.

Word has been received from John Westcott and Robert Craig and party now at the Isle of Pines where they report a delightful climate, and they are enjoying every minute of their stay.

K.

FLUSHING, N. Y.—Joseph Dus, aged 50, Perry avenue, Maspeth, died suddenly, February 8, while engaged in the greenhouse of Herman Maenner at Collins and Mt. Olivet avenues.

Boston.

GREAT IMPROVEMENT IN TRADE.

Most encouraging reports are being circulated concerning the present revival of trade. The business is of the right sort, well divided up and demanding all varieties and grades of stock. Social demands are second only to those for funerals. St. Valentine with his significant sentiments was everywhere discernible and was the occasion of more business than at New Year's. Naturally the desire ran principally to the smaller flowers, violets particularly having a great run. The growers were prepared for the demand. Prices ran along an even schedule at $5 to $6 per 1,000. The greatest inconvenience is being occasioned by the short market on roses. Killarney is being largely oversold and Richmond has been completley cleaned up. Both of these varieties are in excellent shape. American Beauty is causing no end of dissatisfaction and dealers refuse to handle the goods at the prices asked, $12 per dozen. Carnations have struggled up another point. Pre-lenten social affairs are many and each furnishes its proportion of business, all taking an appreciable interest in floral requisites. The demand for gardenias, orchids and lily of the valley is principally for this class of trade and has never been so general as this season. Orchids are well represented by cattleyas and we are glad to say the public has at last come to the point of appreciation of this exclusive flower. Flowering plants are well displayed, azaleas, cyclamens and genistas all possessing superior merit. Bulb plant stock is overshadowed by this more desirable stock.

NOTES.

John Newman of Woburn, who has gradually reached the top of the ladder among violet growers, had one of his best crops well in hand for the St. Valentine's day trade. The cutting was one of the largest for a single day in his many years of growing. Preparations are now being made for increasing the capacity of the plant by the addition of a new house which will be ready for fall planting.

John Fee, as anticipated, has lived up to his expectations and is pouring into the market a crop of superb Murillo tulips.

F. W. Hardy of Natick is the first to show new antirrhinums and has a varied assortment of pleasing varieties.

Edward Arnold of Quincy has been petitioned into bankruptcy, with liabilities at $4,116; assets, $1,325.

W. H. Nicholson is showing Afterglow carnation at its best.

B.

Cleveland.

VALENTINE'S DAY TRADE.

Smith & Fetters had a very attractive window display for St. Valentine's day. The most important feature was two hearts made of Enchantress carnations joined together with a knot of white carnations; around this were pretty little hampers and boxes filled with orchids, violets, and other small flowers. The background was a bank of well flowered azaleas interwoven with chiffon.

Albrecht & Smith had a most beautifully arranged window made of various shaped violet boxes. The main feature was an elaborate heart pierced through with an arrow, this was set on an easel.

The volume of business done by The Cleveland Florists' Exchange during the latter part of the past week was far above expectations. Violets, double and single, sweet peas and lily of the valley were handled in large quantities and the quality was never better.

Reports from the James Eadie Co. show that the amount of business done exceeds last year's fully 35 per cent. The call for violets and flowering plants was extra heavy.

Mrs. J. Travers, Central avenue, says that business has increased wonderfully since the cars are running out Central avenue.

The firm of L. Warnke & Son has retired from business. The site has been bought by a real estate firm who will erect several modern business blocks in the near future. Mrs. Warnke and her son are now spending several weeks at Hot Springs, Mich.

FLORISTS' CLUB MEETING.

The carnation exhibition held by the Florists' Club at its rooms in Detroit avenue was the most successful ever held by the club. The flowers that were on exhibition were a credit to the growers, being exceptionally fine in color, size, and strength of stem. All were duly judged and certificates awarded. The meeting was largely attended by both growers from in and around the city. Adam Graham, John Kelley and John Kirschner were on the committee.

FORESTER.

Massachusetts Horticultural Society.

The following is the schedule of prizes for the great orchid exhibition to be held May 26-30, 1910:

For the best display of orchid plants in bloom, arranged for effect, embracing at least 20 orchid genera and bi-generic hybrids, and unlimited as to number of species, varieties and hybrids, to fill 400 square feet of space. In the arrangement, stove and greenhouse foliage plants may be used, and the general effect produced (with or without such plants), will be considered by the judges in making awards as per the following scale of points:

Variety of orchids	30
Quality	35
Arrangement and decorative effect	25
Novelty of orchids	10

Cut blooms of rare sorts not exceeding in number 5 per cent of the total number of varieties of orchid plants in the exhibit will be admissible.—First prize, gold medal and $1,000; second prize, silver medal and $500; third prize, bronze medal and $250.

For the best display of orchid plants in bloom arranged for effect, embracing at least 10 orchid genera and bi-generic hybrids, and unlimited as to number of species, varieties and hybrids, to fill 150 square feet of space. The conditions the

ALL TO THE GOOD

Boston's Flower Show

Men of National Repute on All Committees.

Feb. 27th - 28th. Horticultural Hall, 300 Mass. Ave.

UNDER AUSPICES OF

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PINK	100	1000
Afterglow	$6 00	$50 00
Winona	6 00	50 00
Winsor	3 50	30 00
Rose Pink Enchantress	3 00	25 00
Enchantress	2 50	20 00
Lawson	2 50	20 00
Aristocrat	3 50	30 00

WHITE	100	1000
Sarah Hill	$6 00	$50 00
White Enchantress	3 00	25 00
White Perfection	3 00	25 00
Lady Bountiful	2 50	20 00
Queen	2 50	18 00
Lt. Peary	2 50	18 00
Lawson	2 50	20 00

RED	100	1000
Beacon	$3 50	$30 00
Victory	3 00	25 00
Robt. Craig	2 50	20 00

MISCELLANEOUS	100	1000
Harry Fenn	$2 50	$20 00
Harlowarden	2 50	20 00
Patten	2 50	20 00

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Also a full line of Everything Seasonable.

McCALLUM CO., Inc. Pittsburg

same as in the last class, but commercial growers are excluded from competition.—First prize, gold medal and $200; second prize, silver medal and $100; third prize, bronze medal and $50.

For the best recently introduced orchid plant not previously exhibited in the United States.—Gold medal.

For the best new seedling orchid plant not previously exhibited in the United States.—Gold medal.

For the largest and best display of cut orchids arranged with ferns or other foliage, variety and decorative effect to be considered.—First prize, gold medal and $100; second prize, silver medal and $50; third prize, bronze medal and $25.

For the best collection of cut orchids of new varieties not before exhibited in the United States. Ferns or other foliage may be used in the arrangement.—First prize, gold medal.

For the best group of flowering and foliage stove or greenhouse plants arranged for effect.—First prize, gold medal and $100; second prize, silver medal and $50.

For the best new stove or greenhouse plant in bloom, not previously exhibited in the United States.—Gold medal.

For the best new stove or greenhouse foliage plant, exclusive of ferns, not previously exhibited in the United States.—Gold medal.

For the best coniferous plant, not yet disseminated, likely to be hardy in Massachusetts.—Gold medal.

For the best new shrub or climber in bloom, likely to be hardy in Massachusetts, not previously exhibited in the United States.—Gold medal.

For the best new hardy herbaceous plant in bloom, likely to be hardy in Massachusetts, not previously exhibited in the United States.—Gold medal.

LECTURE ON PLANT BREEDING.

Dr. H. J. Webber, professor of experimental plant breeding at Cornell University, read an interesting and instructive paper on "Plant Breeding" at the meeting in Horticultural Hall, Boston, February 13. After going into the history of plant breeding at some length, Professor Webber said he spoke with some hesitation on this subject when he remembered that he was addressing the Massachusetts Horticultural Society, which has done so much to advance horticulture and agriculture in the past century. "I remember," he said, "the great work of this society in offering prizes for improved new fruits in the early days of the nineteenth century, when plant-breeding was indeed in its infancy. I remember the very large number of new fruits and flowers which had their origin in the stimulation given by this association. You have doubtless done the best you could and it was a great work. Yet I am convinced that the work has only just begun. If we are to feed the increasing millions of our population with our soil depleted in fertility, with our mineral deposits of nitrate of soda, potash and phosphates approaching exhaustion, we must use strenuous methods to improve our plants to the highest degree of efficiency."

Points of interest referring to wheat, peas, beans and in short nearly all the important food crops were brought up and a most interesting dissertation on apples and other fruits was given. In conclusion the speaker urged every horticulturist and farmer to adopt a breeding fad, to select some one plant which they will breed, as Jersey cows and Berkshire hogs are now bred. It costs an apple grower nothing to make a few hybrids of different varieties each year. The seeds of these hybrids can be grown in a corner of the garden at little expense until they produce shoots two or three feet high, when buds or scions can be taken and top worked into large trees. Such experiments if made generally would unquestionably, in a short time, result in the discovery of many improved varieties.

Wholesale Flower Markets

PHILADELPHIA, Feb. 17	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Lilac per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Feb. 17.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	4 00@12 00
" Chatenay	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	2 00@ 4 00
Cattleyas	75 00
Daffodils	3 00@ 4 00
Freesias	4 00
Lilium Longiflorum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Snapdragon	2 00@ 4 00
Sweet Peas	50
Violets, single	50
" double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	8 00@12 00

BOSTON, Feb. 17.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lilyof the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

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Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
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Will take proper care of your orders in WISCONSIN.

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...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

MILWAUKEE, WIS.—It is reported that the Ward versus Currie Bros. lily bulb suit will be appealed.

CHICAGO.—The jury in the case of Robert Buist versus the Goodwin-Harries Co. found a verdict for the defendant.

SAN JOSE, CALIF., reports nearly continuous rain through January and up to February 11. All seed crops are showing some bad effects from these excessive rains.

IT is understood that statistics at Washington show the actual duty paid the treasury department on imported bulbs and seeds the past year on the 25 per cent basis about $132,000.

IT is reported that the bulk of the growing seed contract given by the Department of Agriculture the coming year has been awarded to the Braslan Seed Growers Co. of California, they receiving, it is said, an order for something over $100,000 worth of seeds.

THE L. A. Budlong Co., the well known onion set growers of Chicago, has sent us an onion distinctly marked with white and red alternating stripes varying in width from 1/8 to 3/8 inches. Mr. Budlong adds, "if someone will furnish the blue with this we shall have the national colors."

J. E. Hoopes & Co., Muscatine, Ia.

J. E. Hoopes & Co., vegetable and seed growers, are located on the northern part of Muscatine island, an oblong strip of sandy land 15 miles long and about eight miles wide. It has long been noted for its melons, sweet potatoes and other vegetables. They have been in this line of work over 30 years, and are among the leading growers and shippers of island products. In 1894 they began saving seeds. Asparagus was quite a specialty and as the rust disease had not yet appeared on the island, the fields would be red with the ripe seed pods in the fall, only to be burned off with the brush in the winter. A few hundred pounds of seed were saved and sold to such seedsmen as had sent them their catalogues. The seed proved excellent, and more was wanted the next year. Contracts were taken and filled satisfactorily. This has been kept up regularly ever since. Next, melon seeds from the famous island melons were called for, and they began to save both watermelon and muskmelon seeds.

Finding that the land was suitable for growing peppers, they began taking contracts for these seeds, and this has proved to be one of the most reliable crops grown by them for seed purposes. They grow only six of the leading varieties, namely, Bull Nose, Ruby King, Sweet Mountain, Neapolitan, Golden Dawn and Long Red Cayenne. Great care is taken to keep

J. E. Hoopes.

them isolated. The peppers are hauled to the work house, ground and placed in barrels for 24 hours, when the seeds are separated by water, the grinding and pumping being done by a 6-h. p. gasolene engine. Water costs them very little, as a pipe can be driven down a few feet at any place on the island and an abundant supply of water can be obtained as long as the old Mississippi river lasts. Tomatoes are treated the same way; the seeds being thoroughly washed, they are spread on drying pans outdoors the first day, after which they are finished upstairs on the racks in the seed drying house.

They have grown asparagus roots for seedsmen for a long time. Some firms contract ahead on them, while others run their chances of getting their roots just as they need them. They shipped out last spring 345,000 roots, and in the fall 38,500 more for southern orders, mostly one-year stock. They grow only the Palmetto. Colossal and Bonvaletti's Giant. Palmetto being the one mostly wanted, as it seems to withstand the rust disease better than the other sorts. Sweet potatoes are one of the leading vegetables grown on the island, and are stored in houses built expressly for that purpose. Their's holds 8,000 bushels. The large potatoes are stored for table use during the winter, while the small tubers are kept for seed stock the next spring. The leading kind grown is the Yellow Jersey, while the Red Bermuda, Red Jersey and Southern Queen are grown for the southern seed trade. Seedsmen are always welcome to inspect the growing crops or other things of interest to them at any time they may find it convienent to call.

Only Part Flooded—No Damage.

ED. AMERICAN FLORIST:—

In your issue of February 6 you state that my ranch was flooded. This has caused me considerable annoyance, as my customers are anxious as to the result. The facts are that only a small portion of the ranch was flooded and did no damage, whatever, to the crop. We have had a great deal of rain and will not be able to tell for some time what the results of the excessive moisture may be. Trusting you will rectify the report as published.

W. J. FOSGATE.

Santa Clara, Calif.

Flower Show at Hillegom, Holland.

IN THE OPEN AIR, OPENS APRIL 8.

In April of this year, an open ground flower show will be held in Hillegom, Holland, the center of the Dutch bulb industry. An outdoor show, which, as a first trial, was such a great success last year at Sassenheim, will be held on a more extensive scale here and promises to be very interesting. The idea is to illustrate how to obtain the best results from planting Dutch bulbs in small and large gardens, in borders, terraces, and lawns and to make the most effective combinations in beds and groups when combined with evergreens and early flowering shrubs, etc.

The show ground occupies more than three acres of land and is divided into a "French" garden and an "Old Dutch" garden. In the center of the old Dutch garden rises the town hall, an interesting oldfashioned building, and just opposite is the old church which is situated on a hill near a small brook—(old Dutch "gom," hence the name "Hill(e)gom"). It was erected in the fifteenth or sixteenth century. The brook, now turned into a canal, lies on the south side of the show ground and runs toward the old Haarlem lake half a mile away. This lake was drained and turned into useful land in the middle of the last century. The narrow piece of land between the old Haarlem lake and the show ground lies below the level of the sea and surrounding canals. A draining mill is used to pump the water from this low land into the leading canal and it can be seen from the show ground. There is also a beautiful view from the steps of the town hall over the bulb fields in this drained land, into the low lying land of the old Haarlem lake.

The show will be divided into a permanent exhibition in the open, and temporary shows in the large tents, the latter more especially for cut flowers and forced plants. The principal growers of rhododendrons, azaleas, lilacs, clipped plants, etc., will show their best products, and this part of the show will be very interesting for every florist, nurseryman and amateur. The opening date is fixed for April 8, consequently it will be open just before Easter and will be closed at the end of the first week in May.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
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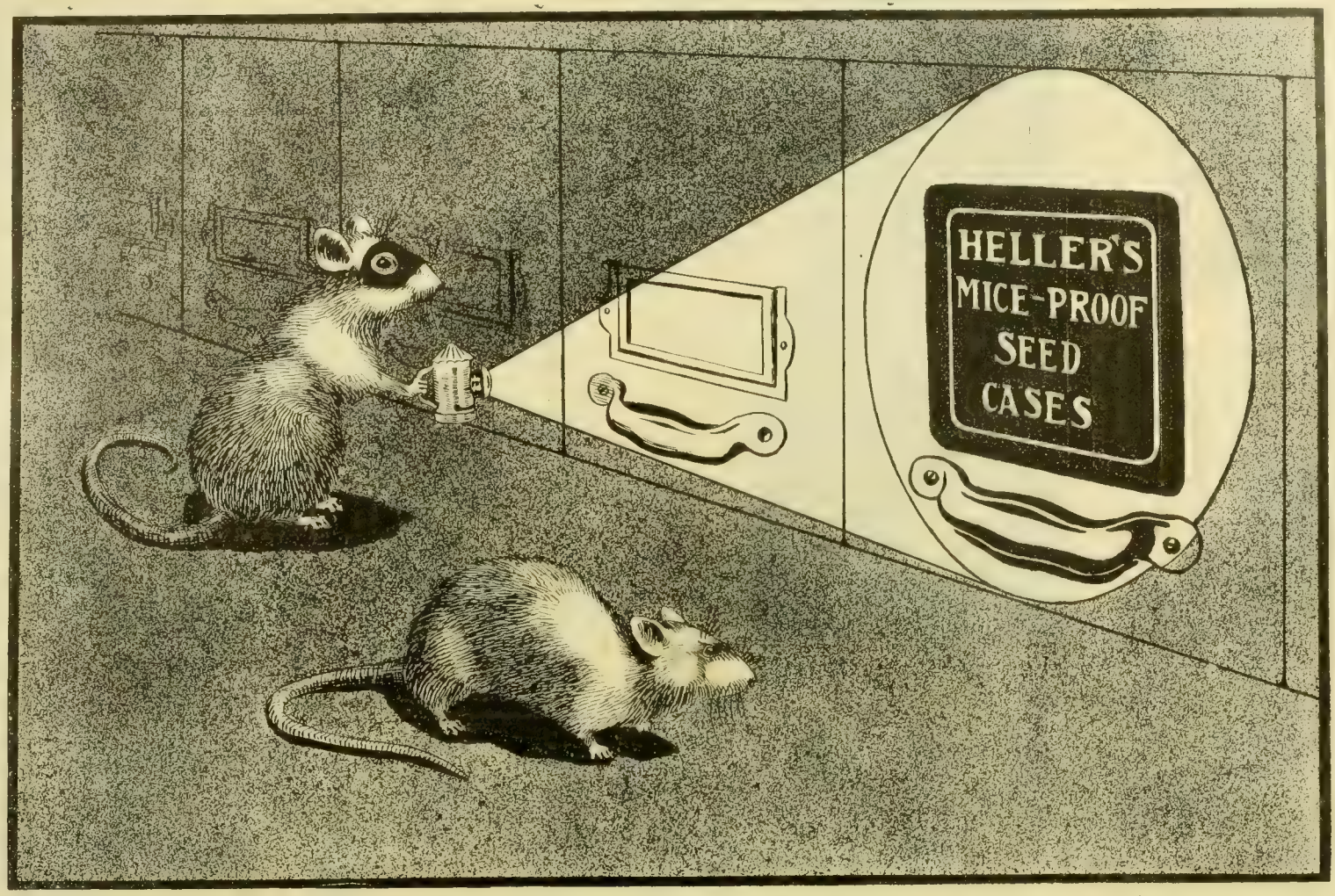
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.



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HELLER & CO.,

Montpelier, Ohio.

Always Hopeful.

My old friends, the government seeds, have arrived, and I am looking forward anxiously to the time when I may bury them carefully in the ground, give the deep or shallow culture as called for on the packet, and then await patiently their non-coming up. Perhaps some day I will be surprised by their appearance above the ground. The arrival of these seeds is the first real announcement that spring is coming, even though at present it is lost in a maze of snow and ice.—Dedham (Mass.) Transcript.

Burned Seeds and Franks in Rome.

"An' th' Roman popylace broke into th' Sinit an' gathered up chairs, desks, stationery, franks, seeds, an' letters fr'm Jawn D. Archybold an' made a bone fire iv thim an' burned Cayzar's body in it.—Dooley in Chicago Tribune.

Imports.

During the week ending February 13, imports were received at New York as follows:

McHutchison & Co., 12 cases, one package plants.

P. Henderson & Co., 160 bags grass seed.

H. Nungesser & Co., 200 packages seed.

Schulz & Ruckgaber, 40 bags seed.

H. F. Darrow, 18 bags seed, 21 packages plants, 85 cases lily of the valley crowns.

W. E. Marshall & Co., 17 barrels grass seed.

Vaughan's Seed Store, nine bags, three barrels seed.

C. C. Abel & Co., one box plants.

To others, 169 packages, 36 cases plants, 42 packages, 37 bags seed, 82 cases lily of the valley pips.

The Farmer and Bolley's N. D. Seed Bill.

"A farmer walked into my office a few days ago," said Oscar H. Will, "and asked: 'What about that seed bill you were talking about in the Tribune the other day?' For reply I handed him the bill and after reading it twice through he asked, 'Does that mean that every time I take a load of grain to town I have got to plaster on every bag a label "Uncleaned Seeds?" I said, 'It looks that way, and furthermore all that stuff has got to be labeled at home in storage '

" 'Well,' said he, 'supposing we were short of seed grain in our neighborhood, and over in the next township they had some that was not quite pure stuff, couldn't some arrangements be made so the party could sell it to us?' I said, 'Under such a law no one in the state could sell it to you in that condition.'

" 'Well,' said he, 'us neighbors always swap around such garden truck seeds among ourselves and they are always more or less mixed but answer the purpose just the same. I suppose it means that every time I haul a load of nice hard, plump, clean corn to your store, I have got to label the sacks or if in bulk, plaster a sign on my wagon box "Uncleaned Seed." I said if the bill became a law that is what he would have to do. 'Well,' said he, 'I am going to tell ———————— if he votes for that bill and don't leave the farmers out he will get a majority vote to stay at home next time,' I said to him, 'If you leave out the farmers that would be class legislation and contrary to the constitution.' "—Bismarck Tribune.

J. E. HOOPES & CO.'S ESTABLISHMENT, MUSCATINE, IA.

Grinding and Drying Asparagus Seeds.

THE CREGO ASTER

The Best in the Market

Florists who planted this seed in 1908 have ordered from three to five times as much for 1909. No sentiment about it, just plain business.

Trade packet $1.00; ½-oz. $4.50; oz. $8.00

Address **G. S. CREGO,**
693 East 10th St., PORTLAND, ORE.

Seeds for Florists

Send me your wants in Flower Seeds.

Bulbs for Florists.—Tuberous Begonias·Sigle and Double Tuberoses—splendid bulbs.

Vegetable Seeds for Forcing.

Let me quote and send catalogues.

STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

S. M. Isbell & Co.

Jackson, Mich.

Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,

Correspondence solicited.

Write for Prices on Surplus Stocks for Immediate Shipment.

Jay J. Utter, BRAVO. MICH,

Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Telegraph Code

Am. Seed Trade Association

—$2.00—

In either stiff or flexible cover. Address order

AMERICAN FLORIST CO., CHICAGO.

Vaughan's Seeds

ALYSSUM

Vaughan's Little Gem, extra fine strain........ lb., $3.50; Trade pkt., 10c; oz., 35c

ASPARAGUS PLUMOSUS NANUS

We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds.

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Berna. Flowers are of very bright, carmine red; they are produced all summer and in great abundance....$ .15
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Bedding Queen. This is undoubtedly the best of the dwarf Lobelias. The best Lobelia for carpet beds, borders and pots.......Trade pkt., 15c; ⅛ oz., 25c; oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage, true	$ .10	$ .55
Hambrugin, new, for hanging baskets....	.25	
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"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS

This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts........ Trade pkt. (1000 seeds), 50c; 3 pkts. for $1.25

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Howard's Star....	$ .10	$ .80
Snowball....⅛ oz., 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich....¼-oz., $1.25	.25	
SMILAX, new crop....lb., $3 00	.10	.25
STOCKS, "Prince Bismarck," new giant double white....	.25	
THUNBERGIA, mixed....	.10	.40

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Defiance, brilliant scarlet true ...	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye....	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice....	.15	1.00
Rose and Carmine shades....	.25	2.00
Purple....	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa....	.05	.20
Lemon (Citriodora)....	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c; ¼ oz., 50c; oz., $2.00; 2 ozs., $3.50.

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Specialties: Peppers, Tomatoes, Asparagus

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We have the best we could possibly procure.
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	1 oz.	tr. pkt.
Salvia Bonfire (Clara Bedman)	$2.25	$ .25
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" Zurich (new)	1-16 oz., $1.25	.50
Verbenas, S. & I., finest mixed	2.00	.25
Lobelia Crystal Pal., compacta, true		.25
" Speciosa, trailing		.10
Begonia Vernon	1-16 oz., 50c	.25
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We sell no old or mixed seeds. Our stock is true to name and quality. Those customers wishing to have a full delivery in the coming season are requested to send their orders at an early date.

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Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

LEAGUE CITY, TEX.—J. E. Beerwort has erected a greenhouse 18x105 feet for growing vegetable plants for sale to truckers.

Vegetable Plants,

With the latter part of February, activity in growing returns. Figuring seven weeks to produce good cabbage and lettuce plants and eight to ten weeks for tomato, pepper and egg plants, will give the operator some data. Of course, plants can be grown in less time, but we prefer to have them come along slowly with plenty of air, and as cool as possible. We always like to use screened earth for all plant work—operations are so much easier and neater, therefore, we prepare soil in the fall, run through ¾ inch mesh screen and store, when fairly dry, in an earth shed. Next we prepare the beds, either in hotbed or greenhouse a week or 10 days before needed, level down firm and sprinkle to start the weeds. When these appear, we are ready for our seed sowing.

Drilling is generally preferred to broadcasting; yet many an old operator will not quit broadcasting, believing this method produces sturdier plants from the start. For drilling we should have markers made by joining bevelled laths at the required distance, say 2 inch, 2½ inch or 3 inch. These laths should be one-half as long as our beds are wide, for easy work; and by having say four or five thus joined, the beds can be marked neatly and quickly. Do not cut too deep; most seeds are put in too deep; just enough to permit of easy covering is sufficient. Lettuce and celery we never cover at all, just mark, seed and firm down. For sowing with the fingers, it is best to put the seed into a cup or saucer, as this is much more accessible than a sack; the best operators take only a pinch between the fingers and by one deft twist and forward move will sow one drill half the width of the bed.

However, if caught for time, or in bad weather in hotbeds, the writer has many times had some common laborer mark out the beds, and then himself broadcasted the seeds from the full hand over these little furrows, then by using a common broom to cover the seeds, most of those falling on the ridges are swept into the furrows and a very satisfactory and speedy job done. All seeds should be firmed. For this have a piece of smooth plank with a convenient handle attached. After firming, water with a fine rose and cover with newspaper to prevent the ground crusting. By sprinkling the papers occasionally, ideal conditions can be provided for germination.

One should not expect all seeds to do well in the same temperature. Such hardy subjects as cabbage, lettuce, or onions should be put into a low temperature, say 50° to 55°; while tomatoes need a warmer place. Peppers and egg plants need more heat than tomatoes. The best results are generally obtained by allowing temperature from 55° to 60° and peppers and egg plants 65° to 70°. Celery does best very cool and moist, from 45° to 50° suits it, and it is slow in germinating. Starting hardy seeds in a high temperature so lowers their vitality that the resulting plants are weaklings from the beginning. In fact, the dreaded damping off is generally caused by high temperature during germination. If hotbeds are used go slow and let the rank heat pass off. It pays to wait a week or two after beds are made up.

MARKETMAN.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3 000 acres and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

A New System of Mushroom Culture.

It was discovered some few years ago that minute pieces of tissue from the center of a mushroom, if planted in a suitable bed, were capable of giving rise to mycelium and, therefore, of producing fresh spawn, according to the Gardeners' Chronicle. Sutton & Sons, Reading, utilize this method in the production of the virgin spawn, which they offer under the name of "Twentieth Century." We are indebted to Arthur W. Sutton for the following account of the methods employed in the preparation of spawn: "The old style of procuring virgin mushroom spawn may be briefly described as follows: Experienced men searched old manure or compost heaps and pasture lands for the mycelium of the mushroom, which is produced naturally in such places. This they sold to growers of the commercial spawn, who placed it in beds and allowed it to run through the material forming them. The 'stock' spawn thus obtained was in due course used to impregnate the compost, which, in the form of 'bricks,' is the medium through which the spawn is passed on to the market grower or amateur. This method was more or less unsatisfactory, since the mycelium of species other than the common mushroom (Agaricus campestris) appears to have been occasionally mistaken for it, to the great disappointment of and loss to the grower.

In 1897 a process was discovered of producing virgin mushroom spawn by artificially germinating the spores, and the mycelium thus produced was sold in test-tubes by the manufacturers. The practice of propagation by spores was, of course, a great step forward, and growers could for the first time be fairly certain that the spawn they purchased would produce the variety of mushroom they wished for. However, even this system had its drawbacks, and it was hoped that a better one might be discovered. With this idea careful experiments were carried out, but it was not till some years later that the process by which our 'Twentieth Century' mushroom spawn is now manufactured was put into practice. This method is known as 'tissue culture,' and originated in the discovery that mycelium could be produced from a portion of the mushroom itself. The possibility of this, as the name of the method implies, is the underlying principle of the new culture. The process involves careful work in the be sterilized, and dust and draught rigor- laboratory, where all vessels used have to ously excluded. The manure employed has to be produced under special conditions and very carefully prepared, cleanliness being of the utmost importance. It it claimed for this process that not only can growers be quite certain that the spawn they purchase is true to name, but also that the improvement of varieties by selection is for the first time made possible, and it is a fact that the yield has already been largely increased. From a practical point of view there can be little doubt that the 'tissue culture' is an advance on propagation by 'spore germination,' which itself is an enormous improvement on the haphazard methods of 10 or 15 years ago."

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

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Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

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VAUGHAN'S 1909 VEST POCKET CALENDAR FOR GARDENERS.

Full of useful suggestions and reminders for for every month in the year.

Every man about the place should have a copy in his pocket.

Price 25 cents, postpaid.

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FOR SALE.

Seed Sweet Potatoes

Five Leading Varieties.

Write for Price List.

W. T. CLUTTS, Cobden, Ill.

The Cultivation of Watercress.

Although this most popular salad can be successfully grown in a moist and shady corner of the garden, the resulting heads are strong and of poor flavor, and its culture thus is not advised. Those who are fortunate enough to possess a

running stream of clear spring water may, however, easily secure an abundant supply of first-class material with but little trouble. Boards on edge should be inserted across the stream at distances of about six feet, so as to check the current and insure a depth of two or three inches of water. In the bottom place a 1-inch layer of clean road sand, and in this dibble the pieces of plant. Young shoots easily root, and if any trouble is experienced in procuring plants, bunches of watercress purchased in the market will answer very well. Spring is the best time to plant. Weeds must be rooted out as they appear. Cut the heads just under the water; then others will quickly appear. Do not allow the plants to run to seed. It is a good plan each spring to thin out the growths, discarding old and straggling ones and retaining the compact and robust shoots. If the boards advised above are firmly fixed, they are useful for placing stout planks upon, so that the watercress can be gathered with comparative comfort.—The Garden.

Mint Growing in England.

Two varieties of mint, known respectively as black and white mint, are grown in England for the production of the essential oil, but the area under cultivation is very limited, and it is believed that it may not exceed 1,000 acres, whilst some authorities estimate that half that area would represent the total quantity that is grown in this country.

Mint is said to grow best on land that is not more than 200 feet above sea level. It is cultivated in Japan and also in the United States, particularly in Michigan. Growers in the United States, although the quality of their oil is inferior, by sending their produce to English markets have in some measure undersold the home producers. Mint is a deep-rooted plant with underground stems or runners, and it can only be grown profitably on good, light, warm soil, that which suits it best being a deep rich loam on gravel, but it will thrive well on a chalky subsoil. It likes a moist spring and a dry hot summer. It is grown from roots, not from seed. The land is prepared during the winter as for a corn crop, about 20 tons per acre of manure being plowed in. A fine tilth must be obtained. The plants are dibbled in in May, in rows 12 inches to 15 inches wide, and from 12 inches to 18 inches apart. The plants are sold by the bushel and about 10-12 bushels go to an acre. The ground must be kept clean by frequent hoeing. As a mint plantation only lasts from four to five years it is necessary to form three or four beds that will come on in succession, and this is usually done in the following manner: In the autumn after the crop has been cut trenches are dug from eight to ten feet apart, 15 inches deep and 18 inches wide, the displaced earth being spread over the plants between the trenches.

When the plants spring up some are transplanted to another bed, the area under cultivation being extended, and so on from year to year, so that at the end of the fourth year, when the first bed is dying out, the others which have been made take its place and continuous succession is obtained. If the plants are not required for extending the plantations the land is plowed with disc coulters, and in the spring it is harrowed down. The mint plantations in their second year give the best results, and each year afterwards they gradually deteriorate. When the plantations are broken up at the end of four or five years, the same land should not be used again for mint growing for many years. The mint is cut about the beginning of September, when the plants flower or when a red rust called snuff appears on the leaf. The crop is left on the ground after cutting to dry, and then packed in Russian mats and carried to the distillery.—Journal of Horticulture.

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
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See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c; 1-32 oz. 60c.; 1-16 oz. $1 00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form
$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List:—

The Conard & Jones Co.
WEST GROVE PA.

British Potato Crop.

Consul Walter C. Hamm, at Hull, reports that 1908 will be known as the "potato crop year" in the annals of Great Britain, his particulars being as follows: The English, Scotch and Welsh potato farmers agree that the harvest this season has established a record. The yield is stated to be almost exactly 4,000,000 tons in Great Britain, or about seven tons per acre. This is nearly 1,000,000 tons greater than the crop of 1907, and about 250,000 tons above the next highest crop, which was produced in 1897. The production is so large, in fact, that farmers find them a burden, and in some cases hardly worth while to carry to market.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points February 13 were as follows: New York, mushrooms, 25 cents to 55 cents per pound; cucumbers, $1.50 to $2.50 per dozen; lettuce, 75 cents to $1.25 per dozen; tomatoes, 11 cents to 22 cents per pound; radishes, 75 cents per dozen bunches; asparagus, $6.50 per dozen bunches; rhubarb, 75 cents to $1 per dozen bunches. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $5 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 30 to 40 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.25 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents.

Gladioli. Not the largest stock, but as good as any.

Iris Germanica, Madeira and Cinnamon Vines.

The argest and best stock in the country.

Lilies, Hyacinthus Candicans, Spotted Callas, Oxalis, Millas, Besseras, etc.

In fine bulbs.

Iris Kaempferi and other Hardy Plants.

Price List on application.

E. S. MILLER,
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DAHLIAS.

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this winter or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc. **ATCO, N.J**

NEW PLANTS

GLADIOLUS Lemoinei and Nanceianus.

V. LEMOINE & SON, Nancy, France

Catalogues on application.

200,000 Glandioli Bulbs ¾ to 1¼ in., $2 00 per 1000: 1¼ to 1½ in. $4.00 per 1000; 1½ in. and up, $5.00 per 1000.
California Privet, 1 year, well branched, $20.00 per 1000, cash with order. Nice lot of American **Chestnut Trees** at a bargain. About 56 large **Sugar Trees,** most of them sample trees. Surplus of Stone **Tomato Seed.** Ruby King, Neapolitan, Bull Nose and Sweet Mountain **Pepper Seed** at a bargain.

I. & J. L. LEONARD, Iona, N. J.,
Vegetable Plant Nurserymen and Seed Growers.

The Best Trade Paper.

Ed. American Florist:—

Enclosed find money order for yearly subscription to the American Florist which I consider the best trade paper on the coast.

Henry Klopfer.

Chico, Calif., January 20, 1909.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

GOSHEN, IND.—Fred Dailey has secured the contract to decorate Menaugh addition to Oak Ridge cemetery.

JENS JENSEN has retired from the superintendency of the Chicago West Side parks, in order, it is said, to give more time to his landscape work for private individuals and other cities. He still retains a connection with the parks, however, and will overlook them while the work he has carried out is developing.

MOUNT VERNON, N. Y.—Arthur Dummett, Inc., one of the oldest nursery concerns in Westchester county, will open an office and show rooms at White Plains. The building, opposite the postoffice, will be remodeled and redecorated. There will be large show windows in front and a new greenhouse will be built, 30 feet long, fronting on Spring street.

AUSTIN, TEX.—Commissioner Kone, of the State Department of Agriculture, gave out a statement to the nurserymen of the state February 4 on the subject of the brown-tail moth, urging them to be very careful when receiving shipments of nursery stock from France and to notify the department promptly so that proper steps can be taken to inspect the stock before it is distributed.

THE executive committee of the American Association of Railroad Gardeners held a meeting in Chicago February 2, and decided to hold the next annual convention at Philadelphia in August. The day was not fixed, but it will be immediately after the meeting of the Society of American Florists at Cincinnati, the object being that any of our members who desire can attend the florists' convention. After the Philadelphia meeting it is the plan to make about a week's inspection of railroad gardening in the vicinity of Philadelphia, New York and Boston. All railroad employes connected with the gardening department of North American railroads are eligible to membership.—G. B. M.

Government Inspection of Imported Stock.

The bill introduced into congress by Representative Scott of Kansas and favorably reported by the house committee on agriculture, providing for government inspection of nursery stock at the port of entry, has received some favorable comment from those who are alive to the danger of importing such pests as the gipsy and brown-tail moths. This bill makes it unlawful for any transportation company to bring nursery stock into the country unless accompanied by a certificate of inspection from an official expert of the country from which the shipment is made. I have not seen the text of this bill and my knowledge of it comes from the despatches in the daily papers. While such a law will not be prohibitive, it may have the effect of curtailing the importation of certain kinds of plants. A thorough inspection of shipments at the port of entry means the complete unpacking and overhauling of the package, and repacking for further shipment, a proceedure not particularly conducive to the vitality of the stock.

JOHN F. COWELL.

Hard-Wood Cuttings.

My attention has been called to an apparent diversity of opinion in regard to the length of hard-wood cuttings. I fancy the diversity of practice is more apparent than real. It is, of course, to some extent a matter of individual notion, but underlying are certain requirements which must be met in order to produce a successful strike of vigorous plants. The length of cuttings for outside planting varies from six inches to a foot or more, and under certain conditions a cutting the size of a fence post may be the proper thing. A cutting should be long enough so that the lower end will be deep enough to be beyond the reach of ordinary periods of dry weather. Aside from this reason the cuttings might in many instances be made quite short. To make them much longer would greatly increase the labor of setting. With certain plants the trade requires a certain length or number of nodes. In some of the grape-growing districts the demand is for plants having two tiers of roots, and this means that the cuttings must be made with three tiers of buds. In the case of some of the stronger growing varieties this makes a cutting of from 15 to 18 inches, and the work of setting is considerably more than in the case of the cutting of 8 to 12 inches.

Where shrubs are propagated under glass the cuttings are usually made very much shorter, say from one to six inches, and frequently only one bud is taken. Of course the length will vary with the character of the species. In making cuttings of willows, poplars and some other species which are to remain where struck, a length of several feet may be desirable and proper. And this reminds me, that it is not too late to take cuttings of many species. While it is, perhaps, too late for shrubs that have the habit of rooting from the end or from the callus, yet most of side rooters, as they are called, may be taken any time this month, and some of them as late as May 1. The greater number of our shrubs which are propagated from ripe wood, however, require some time to form a callus from which the new roots spring, and these are uncertain if taken after the end of January. The trouble is not that the wood has been injured by cold, but that the leaves will begin to grow before the callus can be formed and the roots emitted. This leaf growth exhausts the sap and leaves nothing to form roots.

A BIT OF HUMBOLDT PARK, CHICAGO.

I have seen it suggested recently that early January was a good time to take cuttings of conifers. This may do in more favored climes than this, but here the result would be a failure. Unlike our deciduous shrubs, the evergreens are affected by the cold in a way that reduces their vitality seriously and renders them unsatisfactory for propagation. We prefer to take cuttings of all of our conifers before the wood has been severely frozen. October is the month in this latitude according to our experience, though some, like our native yew, may be taken off a month or two later. All the conifers require a long time to callus and root, some of them often remaining in the cutting bed nearly a year before rooting. During the callusing process nearly all cuttings are better kept in the dark and in a temperature that will not excite top growth.

JOHN F. COWELL.

A Bit of Humboldt Park, Chicago.

The illustration herewith, which we are enabled to publish through the courtesy of Jens Jensen, late superintendent of the Chicago west side parks, shows the head of the pretty piece of water gardening in Humboldt park. It has not been completed long enough to show its full beauty but all last summer it was

a popular part of the park with visitors and was most attractive. Mr. Jensen has the happy faculty of so blending his new work with the old that there is nothing inharmonious or suggestive of a dividing line. The one appears to grow out of the other as it were and this has helped materially to make a successful whole out of what appeared to be rather unpromising material.

From the part illustrated the water is taken in several directions through banks of artificial rock work, cunningly devised and very natural in appearance. Various devices help to give this effect, including in one place the water bubbling up through sand as we have before described. Many choice herbaceous, bulbous and other subjects are planted along the banks and in proximity to the streams which join a large lagoon lower down in and around which the better known native and other aquatic and waterside plants are successfully disposed. The flowering plants are so arranged as to keep up a constant succession of bloom all through the spring and summer and well into the fall, the shrubs also being of considerable interest. Altogether it is a charming and most successful portion of the colossal undertaking of this well known landscape artist.

Flat or Plate Budding of Roses.

P. Foliard describes the so-called Forkert method of budding roses at length in a recent number of the Journal des Roses, which he describes as a great success and the simplest of all budding processes. It has been somewhat in use with shrubs and fruit trees for many years, but seems only recently to have been applied to the rose. It is, however, coming into general use, and M. André Leroy, of Angers, is quoted as claiming it to be "incontestably preferable to all others for the roses and to be highly recommended." Budding stock may be chosen as for ordinary use, except that the buds may be greener and less strong than for the ordinary process, without fear of failure.

The branch chosen, the eye is detached with a budding knife, retaining only a very thin slice of the bark. The size of the cutting matters little, but it is usual to cut the lower end long enough to slip under the tongue made by cutting the wildling or stock, and thus hold the bud in position until it can be tied. The part above the eye may also be cut a trifle long and trimmed by a transverse cut to fit the cut in the wildling. The incision in the wildling should also be made, as far as possible, to remove the bark without cutting the wood. It is not necessary that the two cuttings should exactly fit, and in case of feeble eyes grafted on strong stocks, the cutting on the wildling may even be larger than the eye, when a deposit of cambium will form and hasten the joining and healing of the wound. The stem is then bound with raffia. M. Leroy advocates the use of wax, but the author maintains that much the best results are obtained with small eyes and simple tying. The important matter is that the eyes shall be kept in perfect contact with the stock until the joint is perfectly apparent—usually 10 days suffices. It is well then to remove the little projection of bark which has retained the eye in position, as this tends to interfere with the circulation of the sap, and to remove the band of raffia by a cut on the opposite side of the stem, if it seems too tight. As to season, M. Foliard recommends March, April and May for growing eyes, and August, September and even October for dormant buds; between these times, success is not assured. The method has been used successfully on lilacs, currants, grapes, peaches, plums, apples, weigelias, etc. It is surely well worth experimenting with.

Shrubs and Herbaceous Plants

50,000 Azalea Amoena. Send for Our Wholesale List.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

American Everblooming Hydrangea.

Strong field-grown plants, 15 to 20 inches, $2.50 per doz. $15.20 per 100.
Berberis Thunbergii, 1 year and transplanted. Amoor River Privet, Japanese Privet 1½ to 2½-ft. California Privet, 1 to 2½-ft.

Lists Free

THE E. Y. TEAS CO., Centerville, Ind

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

C. KERKVOORDE NURSERIES

WETTEREN, n. GHENT, BELGIUM.

100,000 **Roses,** low budded on Rosa canina, all best sorts, our selection, $4.00 per 100; purchaser's selection, $5.00 per 100. 25,000 **Planes,** straight, transplanted, 10-12 feet, $10.00 per 100; 12-14 feet, $12.00 per 100. **Azalea, Rhododendron, Conifers, Peonies.** Cash with order. Catalog free.

SPECIAL OFFER

Tree and Shrub seeds, especially Tulips, Poplars, Calycanthus, Red Bud, Sweet Gum, Witch Hazel, etc. at special prices to close.

J. H. H. BOYD, McMinnville, Tenn.

UP-TO-DATE

Azaleas and Rhododendrons

WITH

JEAN BRACKE,

LOCHRISTY, near Ghent, **BELGIUM.**

Catalogues free on application.

Johnny Appleseed.

The first fruit trees in Hancock county were planted by "Old Johnny Appleseed" and a few of the trees he planted from seed, are still in existence, or were a few years ago, at Indian Green, and in Delaware township. According to the Newark Advocate, "Johnny Appleseed," the pioneer nurseryman of Ohio, is to have his birthday anniversary celebrated in due form from this time on, at least in Licking county.

Though the exact date is not authentically known it was decided January 5 would fit and that day in that county was held a proper celebration of the anniversary of one of the most eccentric men who ever trod the hills and dales of Ohio. It is thought that Jonathan Chapman, which was the man's real name, was born in Massachusetts about the year 1775, but he was first heard of here in 1801. From that time on till his death in 1874, he was a well known figure throughout the state. The Indians considered him as insane, and according to their belief that such a one was "under the care of the Great Spirit," they never molested him, but assisted him in every way they could. Not only Ohio, but all the states between the Ohio river and the Atlantic coast were visited by him. As a result you may see while driving along a country road, great gnarled apple trees, the fruit of the work of "Appleseed Johnny."

FROM GROWER TO PLANTER

Ellwanger & Barry's

TREES

Shrubs, Roses Evergreens and Hardy Plants

Are Famous The World Over

Best stock at reasonable prices. No agents. Commissions saved. Collections unequalled. Beautiful illustrated catalogue mailed *free* on request.

MOUNT HOPE NURSERIES

ESTABLISHED 1840 *Box Q, Rochester, N. Y.*

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.

THE WM. H. MOON CO.,
Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.

CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....

PAINESVILLE, OHIO.

BOBBINK & ATKINS,

Rutherford, N. J.

Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

Always mention The American Florist when you order stock. : : : :

CARNATION CUTTINGS.

Good, Healthy Plants, Free from Rust and Other Diseases.

It takes healthy plants to produce healthy cuttings, so, if you want cuttings of this kind, send us your order.

	Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000
White Perfection	$3 00	$25 00	Afterglow	$6 00	$50 00	R. P. Enchantress	$3 00	$20 00	Mrs. Patten	$2 00	$15 00
White Enchantress	3 00	25 00	Beacon	3 00	25 00	Lawson Enchantress	6 00	50 00	Lawson	1 50	12 50
Winsor	3 00	25 00	Victory	2 50	20 00	Enchantress	2 00	18 00	Sarah Hill	6 00	50 00

ROSE CUTTINGS

	Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000
Bride and Maid	$2 00	$17 50	Chatenay	$2 00	$17 50	Perle	$2 50	$20 00	Alice Roosevelt	$7 50	$60 00

All cuttings guaranteed to be first-class.

WEILAND & OLINGER, New Castle, Ind.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

Rooted Carnation Cuttings

Victory. Beacon, Enchantress Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

ELI CROSS, 25 Monroe St., Grand Rapids, Mich.

Rochester, N. Y.

Sixty-five persons attended the first banquet of the Commercial Florists' Association at the Hotel Eggleston February 11. Before the supper a business meeting was held at the store of Geo. B. Hart, 24 Stone street. It was decided to invite the Society of American Florists to hold its national convention in this city in 1910. In this connection a resolution was adopted unanimously, favoring the enlargement of Convention hall, along the lines endorsed by the chamber of commerce. The subject of a flower show the coming fall also was favorably considered, but definite action was deferred.

The local association was organized by the retail florists. It has a membership of about 100 and includes growers, private gardeners and members of allied industries. The officers are:

F. W. Vick, president.
A. H. Secker, vice-president.
H. B. Stringer, secretary.
W. L. Keller, treasurer.

W. H. Dildine, of James Vick's Sons, was toastmaster at the banquet, and Chas. A. Brown, of Brown Bros., nurserymen, extended greetings and good wishes on behalf of the Nurserymen's Association, pointing out some of the benefits of organization. A. H. Seeker, of Salter Bros. spoke on "Organization." W. L. Keller, of J. B. Kellers' Sons, had for his subject, "Our Vocation." R. G. Salter, spoke on "Sociability." Geo. B. Hart gave a brief sketch of the association and referred to the forthcoming national convention. W. D. Vallette traffic manager of the chamber of commerce, outlined methods of work necessary for forwarding such an organization. He invited the members of the association to be the guests of the chamber of commerce at its first open meeting in March, and assured them of the hearty co-operation of that body.

VICTORIA, B. C.—D. D. England, superintendent of parks, has published a long and interesting report of the work done by himself and staff in the park system of the city and vicinity. He also recommends a great deal of work in the coming year.

SUCCESS WITH CHRYSANTHEMUMS

Depends upon four important factors: **Varieties grown,** quality of stock, cultural methods and market price. If the first two are carefully considered, the others are easier controlled. Our hobby is the **BEST COMMERCIAL KINDS.** These we grow in quantity, and the quality of our stock is unsurpassed.

We also grow those suitable for any other purpose.

Let us have a list of your wants before placing yonr order.

ELMER D. SMITH & CO., Adrian, Mich.

Rooted Cuttings Now Ready

Nothing but the Best at Lowest price—first come, first served. Credit only to reliable people

	Per 100	Per 1000
W. H. Taft (New Red)	$12 00	$90 00
Victory	2 50	20 00
Enchantress	1 75	15 00
Pink Lawson	1 50	12 50
White "	2 00	18 00
Variegated "	2 75	25 00
UNROOTED STOCK		
Mrs. A. N. Nelson	$ 60	$ 5 00
Crusader	60	5 00
Boston Market	60	5 00

Lawson, pink, white and variegated, half rate.

SCHEIDEN & SCHOOS, 60 Wabash Ave., Chicago

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., **Cincinnati, O.**

PETER FISHER

Ellis, Mass.

Send for Price List of Carnations.

CARNATIONS

Apple Blossom **Wanoka**

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100; $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,
BARNEVELD, NEW YORK.

EVERGREEN, ALA.—Caldwell the Woodsman Co. has received the order for the inaugural ball at Washington March 4. There will be something over two cars of smilax, several thousand palm leaves, long needle pines and a variety of other stock. Business in wild smilax is quite good.

CARNATION CUTTINGS

We offer choice varieties for January and later shipments.

	Per 100	Per 1000
ENCHANTRESS	$2 50	$20 00
WHITE "	3 50	30 00
ROSE PINK "	2 50	20 00
WHITE PERFECTION	2 50	20 00
WINSOR	3 50	30 00
MELODY	2 50	20 00
BEACON	3 50	30 00
VICTORY	3 50	30 00
ARISTOCRAT	3 50	30 00
SPLENDOR	6 00	50 00
VESPER	3 50	30 00
WHITE LAWSON	2 50	20 00

East Sudbury Greenhouses,

CARNATION SPECIALISTS
P. O. Address, SOUTH SUDBURY, MASS.
Telephone So. Sudbury 20

Lloyd Carnations.

The Only Ever-blooming White in Existence. Easy rooted. Excellent keeper and shipper. Best seller of any white carnation on the market.

	Per 100	Per 1000
Rooted cuttings from sand	$3 00	$25 00
Rooted cuttings from soil	4 00	35 00

Cash with order.

JOHN BENNETT, Atlantic Highlands, N. J.

Flower Colors

Use our **COLOR CHART** in describing them.
PRICE, $1.00 POSTPAID.

American Florist Co.,
324 Dearborn St., CHICAGO.

LINCOLN, NEB.—At the exhibition of the State Horticultural Society, held at Agricultural hall, the following florists had exhibits: Lewis Henderson, Omaha; Dole Bros., Beatrice; E. Williams, Grand Island, and Simanton & Pence of Falls City.

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		6.00	50.00
ENCHANTRESS		3.00	25.00
MRS. THOMAS W. LAWSON		2.00	15.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		6.00	50.00
RED.	**Per 500.**		
O. P. BASSETT	$35.00	1.50	8.00	60.00
BEACON			4.00	35.00
ANDREW CARNEGIE			6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		6.00	50.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants. 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan, $12.00 per 100; $100.00 per 1000,

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,

Madison, New Jersey.

NEW WHITE CARNATION

MARCHIONESS

Fine form, prolific early and cotinuous.
$10.00 per 100; $80.00 per 1000.

BELLAMY BROS., Syracuse, N. Y.

Successors to L. E. Marquisee Estate.

ALVINA

The Best Dark Pink Commercial Carnation Ever Introduced.

Rooted cuttings, $10.00 per 100: 25 at 100 rate.

Your money back if it fails to make good any time before Dec. 15, 1909.

Henry Eichholz, Waynesboro, Pa.

White Enchantress

Best stock, **pure white** ..... $3.00 per 100; $25.00 per 1000

Rose Pink Enchantress

Bright rosy pink, extra fine stock..... $3.00 per 100; $25.00 per 1000

White Perfection

Fine, well rooted cuttings. ..... $3.00 per 100; $25.00 per 1000

We Can Supply Any Good Variety in the Market at Lowest Price.

White—Mrs. J. C. Vaughan, Sarah Hill, Pres. Seelye, Lloyd, White Enchantress, White Perfection, Lady Bountiful and White Lawson.
Light Pink—Mrs. Chas. Knopf, Enchantress and Melody.
Pink—Splendor, Winsor, Rose Pink Enchantress, Welcome.
Cerise Pink—Lawson-Enchantress, Afterglow, Aristocrat.
Scarlet—O. P. Bassett, Andrew Carnegie, Defiance, Beacon, Victory.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., **Joliet, Ill.**

Mention the American Florist when writing

THE NEW CARNATION

LUCILLE

White Overlaid with Pink

A STRICTLY FANCY CARNATION,

Possessing all the best qualities of our leading commercial varieties. It commands the highest prices on the market, owing to its beautiful color, size, stem and magnificent form. It is profitable to grow, because its habit and prolificness are all that could be desired, and its keeping qualities are unequalled. $12 per 100; $100 per 1000.

——WRITE FOR DESCRIPTIVE CIRCULAR——

A. F. Longren, DES PLAINES, ILL. **Highland Park Greenhouses,** HIGHLAND PARK, ILL.

Mention the American Florist when writing

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings..... $3.50 per 100 2½-inch pots..... $5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter; compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio

ALLENTOWN, PA.—Alfred Ashley, brother to Ernest Ashley of Tilghman street died January 28 as the result of a runaway accident. The noise of a passing train frightened the horse he was driving when delivering orders and he was thrown out falling between the horse's hind legs and the wagon and sustained frightful injuries. Deceased was born in England about 29 years ago.

PITTSBURG, PA.—Accompanied by his young wife and their six-weeks-old baby, Harry E. Graves appeared in court February 13 to answer the suit of Miss Maude L. Viders, who asks for $10,000 damages for breach of promise. Miss Viders asserts that Graves wooed her for three years, gave her a ring and then married another girl. She wept when she saw Mrs. Graves and the baby in court.

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each: $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

ROSES

We have a fine stock of large, dormant field-grown plants on own roots, including Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, Fracois Levet, Jack, Prince Camille de Rohan, Magna Charta, Ulrich Brunner, Glant of Battles, and many others, at $16.00 per 100; $150.00 per 1000 Send for list. **Roses, Dahlias** and **Cannas** a specialty.

THE DINGEE & CONARD CO., West Grove, Pa.

American Beauty ROOTED CUTTINGS

$3.00 per 100; $25.00 per 1000.

Bench plants, $7.00 per 100; $65.00 per 1000.

Geo. Reinberg,

51 Wabash Avenue, CHICAGO, ILL.

SPECIALTIES.

ROSES from 3-inch pots. **CHRYSANTHEMUMS**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At New York.

The first meeting of the Florists' Club bowling team will be at Thumm's alleys, corner of Thirty-first street and the Bowery February 22. All should attend and give the new club a good send off.

At Washington.

The Florist bowling team is rapidly coming to the front: it successfully defeated one of the crack teams of the District League taking all three games. Scores as follows:

FLORISTS.			
Cooke	144	165	134
Shaffer	180	159	168
Hanmer	183	203	202
Goodman	180	189	188
McLennan	180	182	201
Total	867	898	893
ORIENTALS.			
Fritz	135	200	161
Crist	168	160	108
Brown	190	146	155
O'Donnell	166	178	176
Miller	191	168	192
Total	850	852	792

G. S.

At Louisville.

The Florists' bowling club met Monday night, Capt. Doerr's team defeating Capt. Stark's two out of three. James Doerr was high with 180 and Karl Rabe was low with 79. Following are the scores:

	1st.	2nd.	3rd
James Doerr	138	154	180
Wm. G. Walker	147	140	170
Geo. E. Schulz	102	144	123
Andy Brand	102	100	149
Jacob Schulz	102	107	119
	110	110	110
Total	701	755	851

Geo. Stark	120	107	126
Fred L. Schulz	113	144	133
Jos. Wettle	143	146	103
Louis Kirch	130	136	141
Robt. Miller	102	115	126
Karl Rabe	79	124	127
Total	687	772	756

F. L. S.

VAUGHAN'S LIST OF

Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots	$2 00	$12 00
2 yrs. old, 2 to 3 ft., well branched, budded	2 00	12 00
3 yrs. old, 3 to 4 ft., well branched, own roots	3 00	15 00
3 yrs. old, 3 to 5 ft., well branched, budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs, old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$2 50	$16 00	$150 00
2nd size, selected, grafted	2 00	12 00	100 00
3rd size, selected, grafted	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00	
3-inch	1 25	8 00	
4-inch	2 00	12 00	
5-inch	4 00	30 00	

Anny Mueller.

Dormant plants, 1 yr ..... $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
5-inch	35	3 50	25 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.

French Stock ..... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Rhododendrons, in assorted colors, our selection:			
Strong, bushy, well shaped plants, 8-12 buds	$1 00	9 00	
Strong, bushy, well shaped plants, 12-18 buds	1 25	12 00	
Strong, bushy, well shaped plants, 18-24 buds	2 00	20 00	
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Prunus Triloba, pot-grown	75	8 00	

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For April and Later Delivery, Our Grafted Roses have given extra good satisfaction, and we are already booking large orders for later delivery. **Varieties: Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley.** Price: $12.00 per 100; $100.00 per 1000.

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for immediate shipment.

400 best sorts, 2½-inch, now or spring.

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The Begonias and Gloxinias which we offer are grown for us by an expert who has made a specialty of this class of stock for many years, and there is no better or finer strain on the market.

BEGONIAS, Singles in separate colors: Scarlet, crimson, white, rose, yellow and orange, 40c per doz., $3.00 per 100, $25.00 per 1,000.

BEGONIAS, Singles in Choicest Mixture: 35c per doz., $2.50 per 100, $22.00 per 1,000.

BEGONIAS, Doubles in separate colors: Scarlet, rose, white and yellow, 65c per doz., $5.00 per 100, $40.00 per 1,000.

BEGONIAS, Double in Choicest Mixture: 50c per doz., $4.00 per 100, $35.00 per 1,000.

SUN-PROOF BEGONIA, Duke Zeppelin: $1.25 per doz., $8.00 per 100.

SUN-PROOF BEGONIA, Lafayette: $2.00 per doz., $15.00 per 100.

FRILLED BEGONIAS, in separate colors: Scarlet, white, pink and yellow, $1.00 per doz., $7.00 per 100, $60.00 per 1,000.

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Good Stock. Low Prices.

Coleus, bedders, 50c: **Fuchsias,** 5 kinds, 90c: **Pilea,** 70c; **Alternanthera,** red and yellow, 45c: **Vinca Varieg.,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c: **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula.** Obc. Grandif. Lilac, 2¼-in., strong stock. $1.75 per 100: 200 for $3.00. Cash.

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Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

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Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100: extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each. $7.50 per doz.

Cash with order.

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Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

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300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.

Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000

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GERANIUMS.

$2.00 per 100

Lobelia, Kathleen Mallard		$2.00 per 100
" Crystal Palace		2.00 per 100
Hardy Pompon Chrysanthemums		2.00 per 100
Salvia, Zurich	$25.00 per 1000	3.00 per 100
" Bonfire	17.50 per 1000	2.00 per 100
Verbena, 4 colors	17.50 per 1000	2.00 per 100
Ageratum, Stella Gurney, Inimitable		2.00 per 100
Fuchsias, Black Prince		2.00 per 100
Smilax, Extra strong		2.00 per 100
Petunia, Dreers' Superb Single Fringed		2.00 per 100

Send for our Trade list offering a splendid collection of Dahlias in green plants and a general line of Bedding plants for spring.

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2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

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Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.

Large seedlings, $7.50 per 1000; 2-in., $16.00 per 1000

No order taken for less than 1000.

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LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

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Just to hand, a fine lot of **East Indian Orchids** in the following varieties. Dendrobium Wardianum, D. crassinode D. primulinum, D. thyrsiflorum and D. chrysotoxum. Others to follow.

Write us for prices.

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A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in. $5.00 per 100. Seedlings, $1.00 per 100.

Geraniums, Nutt, Doyle, Perkins Ricard, Grant La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in. pots, $2.50; 3-in., $5.00 per 100. Mme. Salleroi, 2-in. $3.00 per 100.

Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.

Boston Ferns, 5-in., 30c each.

Vinca Var., 2-inch, $2.00 per 100.

Dracena Indivisa, 3-in., $5.00 per 100.; 4-inch $10.00 per 100.

Rex Begonia, $5.00 per 100.

Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order.

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Paris Daisy, Giant white, yellow, 2-in. 2c.

Geraniums, single and dbl. Grant, Buchner, etc. 2-in. 2c.

Ageratum, 2-in. 2c. **Rose Geraniums,** 2-in. 2c.

Asparagus Sprengeri, Vinca Alba, Cuphea, Swainsona, Dbl. Alyssum, Abutilons, Alternanthera, Coleus, 2-in, 2c.

ROOTED CUTTINGS, prepaid per 100: **Cuphea** 75c; **Paris Daisy,** white, yellow; **Swainsona** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c; $8.00 per 1000; **Alternanthera,** 3 kinds, 50c; **Ageratum, Coleus,** 60c; $5.00 per 1000; **Artillery plant, Hardy pinks,** 75c. **Flowering Begonias,** $1.25. **Fuchsias,** 8 kinds, $1.00. **Salvia** Splendens, Bonfire, 75c, 2-in, 2c. **Parlor Ivy,** 75c. **Stevia,** 75c **Verbenas,** 60c

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Prepare for Easter

Araucaria Excelsa, 5½ to 6 in. pots, 3, 4 and 5 years old, 4 5, 6 and 7 tiers, from 18to 25 to 30 in. in height, 60c, 75c, $1.00 to $1.25.

Araucaria Robusta Compacta and **Excelsa Glauca,** specimen plants, small stock, the same in width as in height. 6-in. pots, 4 to 5 years old, 6 7 and 8 in. pots, 3, 4, 5 and 6 tiers, 20 to 25 to 30 in. high, $1.50, $1.75 to $2.00 each.

Headquarters for Azaleas for Easter. Have **Azaleas** by the 1000. Three houses full of the choicest **Azaleas** for Easter, best American varieties, 60c, 75c, $1.00, $1.25, $1.50 to $2.00 each.

Begonia new improved Erfordi, 5-in., $2.00 per doz; **Begonia Flambeau** 5-in $2.00 per doz

Spirea Gladstone, 6-in. pots, 40c 50c, 75c; Japonica Floribunda Grandiflora, 6 in., 25c to 35c.

Primula Obconica, 5 in. pots, $2.00 per doz.

Easter Lilies, Lilium Multiflorum, raised from fine 10-in. bulbs; in fine condition; can meet all wants; medium height 6 in. pots, 10c per bud; 5 buds and upwards to a plant; under 5 buds, 12c. ☞ Secure your order early.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot, $2.50 per doz. pots.

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Asparagus Plumosus Nanus, 3-in., $5.00 per 100; 4-in., 10c.

Hydrangea Otaksa, in bud, 6-7 in. pots, 35c, 50c, 75c to $1.00 each.

Cineraria Hybrida, best strain, 4-in. pots, $10.00 per 100; 5½ to 6 in. pots, just right for Easter, 25c, 35c 50c.

Areca Lutescens, 4-in. pots, three plants in a pot, 25c.

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Boston Ferns, 6-in. pots, 50c; 7-in. pots, 75c, $1.00 to $1.25.

Scottii Ferns, 5½-in. pots, 40c; 6 in. pots, 50c; 7-in. pots 75c to $1.00.

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Neph. Amerpohli, 5¼ to 5½in. pots, 30c, 40c and 50c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots, 25 to 30 in high, 50c to 60c; 4-in., 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25, 30, 40 to 45 in. high, 75c, $1.00 $1.25, $1.50 to $2.00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c to 60c.

Jerusalem Cherries for Washington's birthday large plants, full of buds, 6 to 6½in. pots, 35c 50c, 75c.

Moonvines (Ipomœa Multiflora), best white Moonvine for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

Have an Immense Stock of Easter Plants.

Please state if in or out of pots.

All goods must travel at purchaser's risk only. Cash with order, please.

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62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection	$ .75 per 100;	$ 6 00 per 1000
Plants, our selection	2.50 per 100.	20.00 per 1000
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4-inch	**Boston** and **Piersoni**	$12.00 per 100
5-inch	" " "	25.00 per 100
6-inch	" " "	40.00 per 100
7-inch	" " "	60.00 per 100
8-inch	" " "	80.00 per 100
6-inch	**Scotti** and **Elegantissima**	75.00 per 100

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VERBENAS

70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Begonias,** flowering kinds, $1.75 per 100. **Daises, Heliotrope, Salvias** and **Alyssum,** dbl., $1.00 per 100; $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000. All rooted cuttings.

GERANIUMS, from 2¼-in. pots, at $2.50 per 100; $22.00 per 1000.

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Strong, Vigorous Stock, ready for a shift.

S. A. Nutt, La Favorite, Mme. Barney, 2-in. pots, $2.50 per 100; $20.00 per 1000.

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Kentia Belmoreana

7-in. pots, 32 to 34-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

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GENUINE MEXICAN EVERBLOOMING

If you have never grown these for summer cutting, you have overlooked a fine thing.

1st size	$10 00 per 1000
2nd size	8.00 per 1000

Each bulb will produce two to six spikes.

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Guthrie, Oklahoma.

DOVER, N. H.—C. L. Howe has been building more glass until now he has some 60,000 feet, which he intends to still further increase by erecting a new range.

PANSY PLANTS.

100 000 large flowering from field beds, 50c per 100; $2 50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.

—Cash—

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HIGH CLASS PALMS

and Novelties in Decorative Plants.

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THE LARGEST MANUFACTURERS OF
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Grand Rapids, Mich.

When W. L. Cukerski retires from the office of superintendent of parks to go into business as a landscape gardener, horticulturist and florist at the corner of Valley avenue and West Fulton street, he will leave behind him visible proof of the effectiveness of his labors in the service of the city; the parks in their summer beauty stand as monuments to his artistic skill as a landscape gardener, of his ability to accomplish large results with small financial outlay. Eighteen years ago when Mr. Cukerski became connected with the city parks, we had little cause to be proud of our park system. Today the praises and delighted exclamations of outside visitors to the parks and especially to John Ball park, testify to his good work. Travelers who have seen other parks admit that in John Ball park this city has one of the most charming parks on either side of the Atlantic. Much of the credit of this condition is due to the skill, good taste and wise direction of Mr. Cukerski. With rare sound sense he has not sought to replace the beauties of nature, but rather to preserve and embellish them. The influence of his work has been felt throughout the entire city. In some cases he has assisted directly in the creation of landscape effects that have increased the beauty of the residence districts; in many other cases his accomplishments have served as models that have guided citizens in improving their individual properties.

Mr. Cukerski retires from office with a record of which he may well feel proud and Eugene Gobel, sexton of Oak Hill and Greenwood cemeteries, now assumes charge of the city park system in addition to the cemeteries. Mr. Cukerski has purchased 18,000 feet of glass to grow plants in connnection with his landscape work. The houses will be built early in June.

The following resolution was passed by the park board:

Resolved, That this board does hereby express its appreciation of the faithful service rendered the city by Mr. W. L. Cukerski, who, for 18 years, has so wisely and conscientiously guided the work in our city parks as superintendent, and who now resigns to engage in private business.

Resolved, That this board extend to him its best wishes for his future success and happiness. That an engrossed copy of this resolution be furnished Mr. Cukerski and that it be also printed in the daily papers of our city.

(Seal) Board of Park & Cemetery Commissioners.

CHAS. B. BLAIR, Pres.

The Grand Rapids Floral Co. has changed its name to Alfred Hanna & Sons.

B. S.

LA GRANGE, ILL.—The La Grange Floral & Seed Co. has opened a seed plant and cut flower store at Fifth avenue.

Standard Flower Pots!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	$4.88	144 6-in., in crate,	$3.16
1500 2¼ "	5.25	120 7 "	4 20
1500 2½ "	6.00	60 8 "	3.00
1000 3 "	5.00	HAND MADE	
800 3½ "	5.80	48 9-in., in crate,	$3.60
500 4 "	4.50	48 10 "	4.80
456 4½ "	5.24	24 11 "	3.60
320 5 "	4.51	24 12 "	4.80
210 5½ "	3.78	12 14 "	4.80
		6 16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

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or AUGUST ROLKER & SONS, New York Agents.
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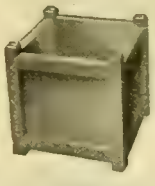

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Manufacturers of
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Before buying write for prices.
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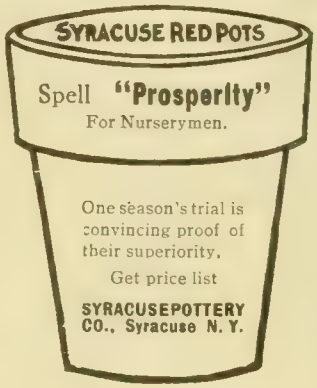

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Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.
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Carnations, Afterglow, Winona, Sarah Hill, $6 per 100; $50 per 1,000. Winsor, Aristocrat, Beacon, $3.50 per 100; $30 per 1,000. Rose Pink Enchantress, Victory, White Enchantress, White Perfection, $3 per 100; $25 per 1,000. Enchantress, Lawson, Robt. Craig, Lady Bountiful, Harry Fenn, Harlowarden, Patten, $2.50 per 100; $20 per 1,000. Queen, Lieut. Peary, $2.50 per 100; $18 per 1,000. Leo Niessen Co., 1209 Arch St., Philadelphia.

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Golden Glow, from the original early stock; strong, 2½-in. plants, $6 per 100. C. C. Pollworth Co., Milwaukee, Wis.

Chrysanthemums, hardy, $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Chrysanthemums, leading vars. Wood Bros., Fishkill, N. Y.

Chrysanthemums. Chas. H. Totty, Madison, N. J.

Chrysanthemum Golden Glow. Eli Cross, Grand Rapids, Mich.

Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

CINERARIAS.

Cineraria hybrida, 2½ and 3-in., $4 and $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Cinerarias, 2½-in., 300 for $5; 4-in., $5 per 100. J. C. Schmidt, Bristol, Pa.

COLEUS.

Coleus, strong R. C., 25 varieties, including the new trailer, 70c per 100. Cash. The Kaber Co., La Porte, Ind.

Coleus, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Coleus, 10 varieties, 2¼-in., $2 per 100. Jos. H. Cunningham, Delaware, O.

Coleus, R. C., 60c per 100; $5 per 1,000. Byer Bros., Chambersburg, Pa.

Coleus, 10 varieties, R. C., 60c to 75c. Mosbæk Greenhouse Co., Onarga, Ill.

CUPHEAS.

Cupheas, R. C., 75c. Byer Bros., Chambersburg, Pa.

CYCLAMENS.

Cyclamens, well flowered, $6 and $12 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Cyclamens, finest giant strain from 3-in. pots, nice plants, full of buds, 7c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

DAHLIAS.

Dahlias, novelties and standard varieties, true to name. A choice list of the best introductions. Send for catalogue of dahlias, hollyhocks, hardy plants. W. W. Wilmore, Box 382, Denver, Colo.

Dahlias, leading vars. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

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Daisies, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Paris daisies, giant white and yellow, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Daisies, $2.50 per 1,000. J. C. Schmidt, Bristol, Pa.

DEUTZIAS.

Deutzia Lemoine, pot-grown, 7-in., 25c each; $2.50 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

DRACENAS.

Dracæna terminalis, $9, $12 and $18 per doz. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

Dracæna indivisa, 4-in., $12; 5-in., $20. Mosbæk Greenhouse Co., Onarga, Ill.

FERNS.

Ferns. Boston and Piersoni, 2¼-in., $3 per 100; $25 per 1,000; 3-in., $6 per 100; $55 per 1,000. Scottii, Whitmani and Elegantissima, 2¼-in., $5 per 100; $45 per 1,000; 3-in., $10 per 100; $95 per 1,000. Amerpohli, 2¼-in., $10 per 100; 3-in., $20 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, Boston, 6-in., 50c; 7-in., 75c; $1, $1.25. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c to $1. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50. Amerpohli, 5½-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Ferns. Fine specimen plants ready for Easter. See our display adv. Mosbæk Greenhouse Co., Onarga, Ill.

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Ferns, assorted, for ferneries, $3 per 100; $30 per 1,000. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Boston, Scottii, Whitmani, Farleyense, all sizes. Samuel A. Woodrow, 53 W. 30th St., New York.

Ferns, Boston, 5-in., 30c each. Geo. M. Emmans, Newton, N. J.

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Feverfew, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Ficus, 5½ and 6-in., 25c, 30c and 40c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Rubbers. P. J. Berckmans Co., Augusta, Ga.

FORGET-ME-NOTS.

Forget-me-nots, 2-in. pots, $2.25 per 100; $20 per 1,000. Geo. B. Windler, 4059 Delmar Ave., St. Louis, Mo.

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Fuchsias, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Fuchsias, 8 kinds, R. C., $1. Byer Bros., Chambersburg, Pa.

GERANIUMS.

Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

Geraniums, Nutt, $18 per 1,000. Alliance, Jacquerie, $20 per 1,000. Albion, $6 per 1,000. E. G. Hill Co., Richmond, Ind.

Geraniums, S. A. Nutt, La Favorite, Mme. Barney, 2-in. pots, $2.50 per 100; $20 per 1,000. Woodworth & Parker, Geneva, O.

Geraniums, single and dbl. Grant, Buchner, etc., 2-in., 2c. Rose geranium, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Geraniums, S. A. Nutt, 2-in., $2 per 100; $20 per 1,000. C. B. Knuth, 11801 St. Clair Ave., Cleveland, O.

Geraniums, 2-in., $2 per 100 up. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Geraniums, 2¼-in., $2.50 per 100; $22 per 1,000. S. D. Brant, Clay Center, Kans.

Geraniums, 2½-in., my selection, $3 per 100. Jos. H. Cunningham, Delaware, O.

Geraniums. A. M. Herr, Lancaster, Pa.

GLOXINIAS.

Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

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Greens, fancy and dagger ferns, $1.75 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $7.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

Greens, southern wild smilax. J. E. Pinkston, Louisville, Ala.

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Greens, bronze and green galax, 50c per 1,000. Fancy and dagger ferns, $1 per 1,000. Green leucothoe sprays, $2.50 per 1,000; bronze, $4. Rhododendron sprays, $2 per 1,000. Mountain laurel sprays, $2 per 1,000. J. N. Pritchard, Elk Park, N. C.

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Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala

Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

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Greens, smilax, ferns, palm leaves, etc. John P. Scherer, Union Hill, N. J.

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Fine selection of Hardy Perennials. Send for descriptive list. Mosbæk Greenhouse Co., Onarga, Ill.

Hardy pinks, R. C., 75c. Byer Bros., Chambersburg, Pa.

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Heliotrope, $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Heliotrope, 4 of the best, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Heliotrope, R. C., $1. Byer Bros., Chambersburg, Pa.

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Hydrangeas. W. & T. Smith Co., Geneva, N. Y.

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German iris, 25 named varieties, $2.50 per 100; mixed, $2 per 100. Elmhurst Nursery, Argentine, Kansas.

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Ivy, hardy English, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

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Lilacs, pot-grown for forcing, Chas. X, Mme. Casimer Perier, Bertha Dammann, Mme. Lemoine, well branched, with buds, $1 each; $10 per doz. Vaughan's Seed Store, Chicago and New York.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

Lily of the valley pips. J. M. Thorburn & Co., 33 Barclay St., New York.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., 50c per doz.; $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

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Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

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Mushroom spawn. Johnson Seed Co., 217 Market St., Philadelphia.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

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Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evrgreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery Stock. Forest, shade and ornamental trees, shrubs, seeds, etc., by the million at extremely low prices to close out. Balm of Gilead, Carolina Poplar, Red Bud (Judas tree), Tulip, Poplar, Sweet Gum, Ash, Ailanthus, Persimmon, Locust, Buckeye, Walnuts, Dogwoods, Hamamelis (witch hazel). Altheas, Amorphia, Yuccas, Calycanthus, etc.; also Tree Seeds. We have a large stock and are making low prices to clear land by April 1. Send for trade list. Forest Nursery Co., McMinnville, Tenn.

Planes, straight, transp., 10 to 12 ft., $10 per 100; 12 to 14 ft., $12 per 100. Conifers. C. Kerkvoorde, Wetteren, near Ghent, Belgium.

Nursery stock, fruit and shade trees, shrubs, evergreens, tree roses. W. & T. Smith Co., Geneva, N. Y.

Nursery stock, Forsythia, 18 to 24 in., well rooted, $2 per 100. Tamarix, 4 to 5 ft., $6 per 100. Elmhurst Nursery, Argentine, Kans.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, trees, shrubs, roses, evergreens and hardy plants. Mount Hope Nurseries, Box Q, Rochester, N. Y.

Nursery stock, shrubs and herbaceous plants, 50,000 Azalea amœna. Elizabeth Nursery Co., Elizabeth, N. J.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock, Calif. privet, 1-yr., $20 per 1,000. American chestnut, 50 large sugar trees. I. & J. L. Leonard, Iona, N. J.

Nursery stock. Storrs & Harrison, Painesville, O.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Kentia Bel., 2¼-in., 4 leaves, 8 to 10 ins., $1.50 per doz.; $10 per 100; $90 per 1,000; 3-in., 5 lvs., 12 ins., $2 per doz.; $15 per 100; $140 per 1,000; 6-in., 6 lvs., 20 to 24 ins., $1 each; 6-in., 6 to 7 lvs., 26 to 28 ins., $1.50 each; 6-in., 6 to 7 lvs., 32 to 34 ins., $2.50 each; 11-in. tubs, 7 to 8 lvs., 6 ft., $20 each; 11-in., 8 to 9 lvs., 7 to 8 ft., $25 each; 11-in., 8 to 9 lvs., 8 ft., $30 each. Kentia Fors., 2¼-in., 4 lvs., 8 to 10 ins., $2 per doz.; $15 per 100; $140 per 1,000; 3-in., 5 to 6 lvs., 15 ins., $2.50 per doz.; $20 per 100; $175 per 1,000; 4-in., 5 to 6 lvs., 15 ins., $5 per doz.; $40 per 100; 6-in., 6 lvs., 28 to 30 ins., $1 each; 6-in., 6 lvs., 34 to 36 ins., $1.50 each; 7-in., 6 to 7 lvs., 36 to 40 ins., $2.50 each; 7-in., 7 to 8 lvs., 36 to 40 ins., $3 each; 8-in. tubs, 6 to 7 lvs., 42 to 44 ins., $4 each; 9-in., 6 to 7 lvs., 5½ ft., $8 each; 10-in., 6 to 7 lvs., 6 ft., $10 each; 12-in., 6 to 7 lvs., 8 to 9 ft., $17.50 each; 12-in., 7 lvs., 6 to 7 ft., $20 each. Made-up Kentia Fors., 3 plants in tub, 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 8-in., 40 to 42 ins., $4; 8-in., 42 to 48 ins., $5; 12-in., 6 ft., $15; 12-in., 8 ft., $17.50. Kentia Sanderiana, 4-in., 3 to pot, 15 to 18 ins., 75c each; 5-in., 18 to 20 ins., $1 each. Henry A. Dreer, Philadelphia.

Palms, Areca lutescens, 4-in., 3 plants in pot, 25c; Kentia Bel., 5½-in., 25 to 30 ins., 50c to 60c each; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each; 5½-in., 20 to 25 ins., 50c to 60c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, strong, transplanted from fall, almost ready to bloom, finest strains, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Choicest strain of seedling pansies, $3 per 1,000 or 50c per 100. Strong plants ready to transplant. Joy Floral Co., Nashville, Tenn.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

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Pandanus Veitchii, 6-in., $18 per doz.; specimens, $3 to $7.50 each. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Pandanus. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

PETUNIAS.

Petunias, Dreer's superb single, 2-in., $2 per 100. R. Vincent, Jr., & Sons, White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, Marvel, R. C., $1; 2¼-in., $2.50. Mosbæk Greenhouse Co., Onarga, Ill.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

POINSETTIAS.

Poinsettias, 35c each; $4 per doz. Samuel A. Woodrow, 53 W. 30th St., New York.

PRIMULAS.

Primula Chinensis in bloom, 5½-in., $2.50 per doz. Obconica, 4-in., 10c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

PRIVET.

AMOOR RIVER PRIVET, 300,000, all sizes. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

Rhododendrons, assorted colors, our selection, 8 to 12 buds, $1 each; $9 per doz.; 12 to 18 buds, $1.25 each; $12 per doz.; 18 to 24 buds, $2 each; $20 per doz. Vaughan's Seed Store, Chicago and New York.

Rhododendrons. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

Rhododendrons. Kallen & Lunnemann, Boskoop, Holland.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROSES.

Roses, for forcing, field-grown, Crimson Rambler, Dorothy Perkins, Lady Gay, XXX grade, $12 per 100; No. 1 grade, $8 per 100. Hybrid perpetuals, A. Colomb, Anne de Diesbach, Baby Rambler, Clio, Coquette des Alps, Frau Karl Druschki, Gen. Jacq., Magna Charta, M. Dickson, Mme. G. Luizet, Mrs. Laing, Mar. of Lorne, etc., $10 per 100. Grafted roses; Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses. White Baby Rambler, 2½-in., $1 per doz.; $6 per 100; 3-in., $1.50 per doz.; $10 per 100; 4-in., $2.50 per doz.; $20 per 100. Baby Dorothy, 3-in., $2 per doz.; $15 per 100; 4-in., $3 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, dormant field-grown, Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, F. Levet, Jacq., Prince C. de Rohan, Magna Charta, U. Brunner, Giant of Battles, etc., $16 per 100; $1.50 per 1,000. Dingee & Conard Co., West Grove, Pa.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Am. Beauty, $8 per 100; $75 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, low budded on Rosa canina, our selection, $4 per 100; purchaser's selection, $5 per 100. C. Kerkvoorde Nurseries, Wetteren, near Ghent, Belgium.

If you do not find what you need in our Ready Reference Department, write us about it.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots, $2 per doz.; $12 per 100; 2-yr., 2 to 3 ft., budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots, $3 per doz.; $15 per 100; 3-yr., 3 to 5 ft., budded, $3 per doz., $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins; Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $2.50 per doz.; $16 per 100; $150 per 1,000; 2nd size, grafted, $2 per doz.; $12 per 100; $100 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 5-in., 35c each: $3.50 per doz.; $25 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Vaughan's Seed Store, Chicago and New York.

GRAFTED AND OWN ROOT ROSES.

Grafted 2¼-in. pots	Per100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
My Maryland	$10.00	$90.00
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Killarney, Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

Roses, new for 1909: White Killarney, 2½-in., own roots, $5 per doz.; $30 per 100; 250 for $70; 500 for $125; 1,000 for $250; grafted, $5 per 100 additional. My Maryland, 2½-in., own roots, $1.50 per doz.; $10 per 100; $90 per 1,000; grafted, $20 per 100; $150 per 1,000. Mrs. Marshall Field, 2½-in., grafted, $4.50 per doz.; $30 per 100; $250 per 1,000. Vaughan's Seed Store, Chicago and New York.

ROSES. Strong, well rooted cuttings, $2 per 100; $17.50 per 1,000: Bride, Golden Gate, Bridesmaid, Richmond, Uncle John.
H. W. BUCKBEE, Rockford, Ill.
Rockford Seed Farms. Forest City Greenhouses.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each: $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Rose White Killarney, $30 per 100; $250 per 1,000. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Roses, Am. Beauty, R. C., $3 per 100; $25 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Roses. White Killarney and My Maryland. A. N. Pierson, Inc. Cromwell, Conn.

Roses, 400 sorts, 2½ and 4-in. Leedle Floral Co., Springfield, O.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses for forcing. W. & T. Smith Co., Geneva, N. Y.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses. Chas. H. Totty, Madison, N. J.

SALVIAS.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

Salvias, 6 of the best, R. C., $1. Mosbæk Greenhouse Co., Onarga, Ill.

Salvia splendens, Bonfire, R. C., 75c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

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Guaranteed waterproof and will wear much longer than rubber clothing with same care and cost less. Colors, yellow or black.

Aprons, size about 30"x45", 10 oz., 75c each, 12 oz., 85c each.

Long coats, yellow, $2.75 each, black $3.00 each.

¾ coats, yellow $2.40 each, black $2.65 each. The long coats reach to shoe tops and the ¾ coats reach to knees. When ordering state color desired, also size coat you wear.

KEYSTONE MANFG. Co., 5th and Girard Ave., Philadelphia.

Kift's new fern and berry globe, 5-in., $3 per doz.; 6-in., $4; 7-in., $5. Partridge berry sprays, $3 per 1,000. Robt. Kift, 1725 Chestnut St., Philadelphia.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

Sterling iron reservoir vases, lawn furniture, settees, chairs, hitching posts, etc. Sterling Emery Wheel Mfg. Co., Tiffin, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Pl., Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Iron pumps, brass pumps, spray pumps, pump cylinders, hose, cast iron sinks, supplies and tools. Crestline Mfg. Co., Crestline, O.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Standard mailing tubes. Standard Mfg. Co., Coatsville, Pa.

Wire work, second to none. Wm. H. Woerner, 520 N. 16th St., Omaha, Neb.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St. Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Stuttle's patent pipe clamp. Henry Stuttle, Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Son, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, N. Y.

PUMPING ENGINES.

Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

SPRAYERS.

U-N-I-T Globe Sprayer, $3.50 prepaid. J. F. Cass Mfg. Co., Dept. A., Detroit, Mich.

STAKES.

Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Supplies. Cape flowers, cycas leaves, metal designs and all florists' supplies. A. Herrmann, 412 East 34th St., New York.

Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburgh, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

Supplies, wire designs, etc. The Cleveland Cut Flower Co., 215 Huron Road, Cleveland, O.

Supplies and wire designs, etc. Henry Kusik & Co., 73 Western Ave., Minneapolis, Minn.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

Supplies of all kinds. A. L. Randall Co., 19-21 Randolph St., Chicago.

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"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs., The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VENTILATING APPARATUS.

Ventilators. Wolf Roller Bearing machine operates 50 to 400 ft. Uniform ventilation guaranteed. Send for references. The Wolf Machine Co., Dayton, O.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Ventilators, the Standard ventilating machinery, original machine with self-oiling cups, most powerful, least complicated, very compact. E Hippard, Youngstown, O.

Foley ventilating apparatus, unexcelled. Send for circulars and estimates. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Ventilators. The Advance Ventilating Apparatus. Write for estimates and circulars. The Advance Co., Richmond, Ind.

Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilators. Evans' Improved Challenge ventilating apparatus. Quaker City Machine Works, Richmond, Ind.

Ventilators, hand ventilating, etc. The King Construction Co., N. Tonawanda, N. Y.

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Organ of the French Rosarians.

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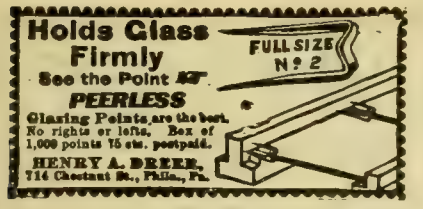

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Never Rust & Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, **40c** per lb., by mail 16c extra; 7 lbs. for **$2.50** 15 lbs. for **$5.00** by express. For sale by the trade
Are positively the best.
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

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—Specialists in—
GREENHOUSE GLASS
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE.

Lock the door before the horse is stolen, and insure your glass before it is broken.
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SADDLE RIVER, N. J.

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to collect an account is to place it with the
National Florists' Board of Trade
56 Pine Street, NEW YORK,
WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

Brampton, Ont.

So far this season we have had the most changeable weather ever experienced in this district, together with a minimum of sunshine. The temperature has been below zero and in a few hours has changed to rain and then changed again as quickly to nearly zero. Business has been moving quietly along and on the whole, has been very satisfactory with prices about the same as last year, although there has been a scarcity in some lines. There has been no American Beauty or Morgan roses on the lists and Richmond, Killarney and Queen are very scarce, the most of the stock coming from those good old stand-bys, Bride and Bridesmaid. There has been a fair supply of carnations and the quality has been better than usual at this time of year. Prices have been very reasonable and the demand at times has been greater than the supply. Orchids have become very scarce except Lælia anceps which is going at $10 per 100. It is not expected that the shortage will last more than a few days when there will be a good supply again. Bulbous stock has been coming in in quantity, but the demand has kept it cleaned up so that nothing has been wasted.

NOTES.

Mark Henderson has purchased a piece of land, about 10 acres, at the south end of the town where he intends to put up some glass and start forcing vegetables.

The Dale Estate is handling a line of bronze magnolia leaves which are very pretty in some designs.

Robt. Jennings has a fine bench of sweet peas just coming into bloom; they are exceptionally good.

L.

Attention!! Glass Buyers!!
Buy Now. Next Week May Be Too Late
Prices have advanced at factories, but we still have a large stock of fine quality **GREENHOUSE GLASS** bought on old basis, and which we are offering this month at ATTRACTIVE PRICES.
If you do not need glass at once, you can send a cash deposit with order, and we will reserve the glass for you.
Our Prices on Hotbed Glass Will Surprise You.
H. M. HOOKER COMPANY,
WHOLESALE GLASS AND PAINTS,
Long Distance Phone Monroe 4994.
120 to 128 W. Washington St., Chicago.

MODERN PRIZE WINNING PLANTS
They bloom and operate the entire year. We are the
World's Largest Producer of Greenhouse Glass
Ask the dealer and insist upon having our brand. If he cannot supply your wants, write direct to headquarters.
AMERICAN WINDOW GLASS CO.
Farmers' Bank Building, PITTSBURG, PA.

ADDRESS
Sunlight Double-Glass Sash Company
929 East Broadway LOUISVILLE, KY.
The double layer of glass does it
Lets in the light always.
Never has to be covered or uncovered; no boards or mats needed.
Retains the heat, excludes the cold.
Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
Ask for catalog A. It tells all about Sunlight sash.
Special catalog for greenhouse material

The James H. Rice Co.
IMPORTERS and JOBBERS
GREENHOUSE GLASS
A SPECIALTY.
Window Glass, Paint, Putty, etc.
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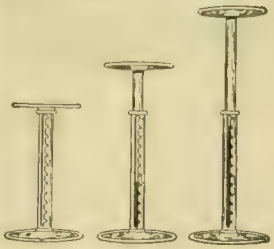
The Regan Printing House
LARGE RUNS OF
CATALOGUES
—OUR SPECIALTY—
WRITE FOR FIGURES.
83-91 Plymouth Place, CHICAGO

BERKELEY, CALIF.—Many retailers have been duped by means of worthless checks, the impostor first carefully looking up the death notices in the papers and then ordering wreaths or designs sent to the addresses of deceased persons.

ELIZABETH, N. J.—Henry Leahy and wife sailed for Bermuda February 4, to be gone several weeks. When they entered their stateroom on the steamer they found it beautifully decorated with American Beauty roses, orchids and violets which had been sent there by New York wholesale florists. Mr. Leahy will inspect a lily property which he has acquired in Bermuda.


The Moore-Livingston Plant Stands..

Use These in Your Decorations
With the three sizes you can obtain
All Heights, from 6 to 48 inches.
No other stand is so simple and easily adjusted.
Write or wire us if unable to obtain the stands locally.
The Moore-Livingston Co., Makers, Patentees, Lansdowne, Pa.
PHILADELPHIA OFFICE:
Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

WIZARD BRAND MANURES
Dried, screened and packed in bags of 100 lbs. each
PULVERIZED SHEEP MANURE
Pure - Uniform - Reliable
A strong and quick acting manure highly recommended for carnations and chrysanthemums
SHREDDED CATTLE MANURE
Easy to Handle and Apply
Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.
Ask your supply man or write for circulars and prices.
The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO
Mention the American Florist when writing

THE BEST Bug Killer and Bloom Saver
For PROOF
Write to
P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

Carman's Antipest
INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.
This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.
PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Unrivalled for all Purposes.
THOMSON'S
Vine, Plant and Vegetable
MANURE

Only Medal Edinburgh, 1886.
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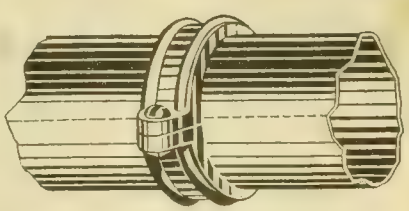
ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES
The result of many years' Practical Experience. Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants. Freight paid on quantities.
Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.
WM. THOMSON & SONS, LTD.,
Tweed Vineyard, Clovenfords, Scotland.
Sold by the leading American seedsmen.

Green Flies and Black ones too
are easy to kill with
The Fumigating Kind Tobacco Powder
$3.00 per bag 100 lbs.
Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?
THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

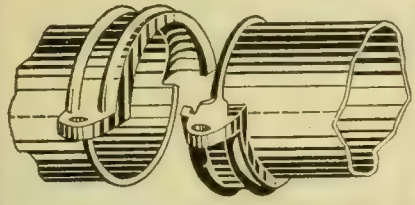
"Natural Guano"
PULVERIZED SHEEP MANURE
Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
Write us for prices and particulars.
Natural Guano Company, Aurora, Ill.

Stuttle's Patent Pipe Clamp



Especially adapted for joining old boiler tubes now so generally used in hot-water heating of greenhouses. Also it is invaluable for utilizing old cast-iron pipes which otherwise would be consigned to junk pile.

Easy to put on in any position and even more easily removed.
Cheap as the cheapest joint in use and 100 per cent superior.



HENRY STUTTLE,

Inventor and Patentee.

BATAVIA, - ILL.

U=N=IT

Spraying device for garden hose. It brings out in solution, with water what is put into Globe. Fertilizing solutions, soap solutions, insecticides, fungicides, germicides, etc. **All Seedsmen and every Florist Supply House should have it.** Retail price $3.50 prepaid. Wholesale prices on application.

Address Dept. A.
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BUILDING AND PROPAGATING SANDS.

Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,

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Plant Sprinkler Putty Bulb.

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Original Designs.

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THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

For Greenhouses

MOREHEAD

Return Steam Traps

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Simple in construction and operation, can be installed anywhere and occupies small space. Requires no special attention, no lubrication, repacking of joints and glands, or repairs of any kind. Handles water at any temperature, never sticks, operation always visible. Works automatically nd absolutely reliable. Sent on 30 days trial.

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ED. AMERICAN FLORIST:—

I have been very well satisfied with the AMERICAN FLORIST, and am always anxious to receive it. It has been a great help to me and I would not be without it for many times its price.

JOHN YOUNG.

Windber, Pa., November 23, 1907.

FREEPORT, ILL.—The funeral of R. W. Gardner, formerly in business here, was held at the home of his sister, Mrs. George Elvey, 73 Fifth avenue, February 6. Mr. Gardner was born in 1853 at Rock Springs, Pa. While still a young man he came west, arriving here in the spring of 1874. In 1877 he was married to Miss Susan J. McKibben. He was stricken with epilepsy in the summer of 1887. From this affliction he never gained relief.

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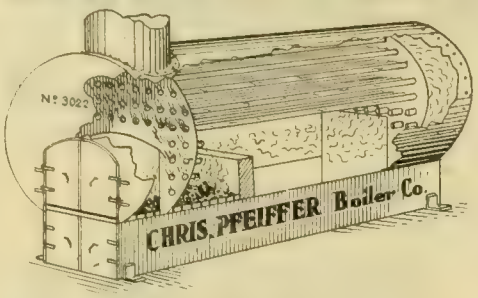
CHRIS. PFEIFFER BOILER CO. 66-68 Michigan St, CHICAGO.



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WE BUILD A SPECIAL HOT WATER BOILER SHIPPED READY FOR OPERATION. NO BRICK WORK REQUIRED.

Repairing done on all kinds of Greenhouse Boilers on short notice.

Made of Best Soft Steel **Phones: Main 4361 - 4399.**

PATENT APPLIED FOR.

Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM. MOLL,
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WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

S. WILKS MFG. CO.,
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STEEL Return Tubular BOILERS

The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

JOHNSTON HEATING CO.,
138 East 31st St., NEW YORK.

BOILERS

HEATING PLANTS and SUPPLIES at Wrecking Prices.

you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at forced sale **50,000,000 ft. of Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free. Our Greenhouse Engineer will furnish you with an estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

GREENHOUSE BOILERS. A complete line of Locomotive, Fire-box Boilers, Kroeschell Greenhouse Boilers, Return Tubular Boilers, Cast Iron Sectional Boilers, etc. Some are rebuilt, some brand new, but all are in first-class condition for further service.

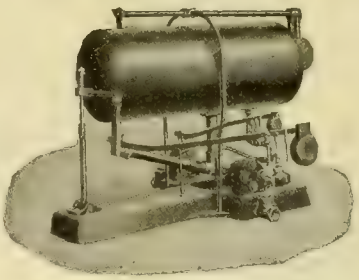
BOILER FLUES. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

BOILER TUBES 20 carloads of 4-in. Boiler Tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

Ask for Our Latest 500-page Catalogue No. 47. It is the greatest book of bargains ever issued. Send for it To-Day. You save 30 to 50 per cent by dealing with us.

The Chicago House Wrecking Co.
35th. and Iron Sts. Chicago.

"DETROIT" RETURN TRAPS



"Detroit" Return Trap. (Patented)

Will keep any Steam heating system free from water, making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass.

IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. DETROIT, MICH.

H. KUSIK. O. R. ECKHARDT

HENRY KUSIK & CO.

Wholesale Florists' Supplies.

Manufacturers of WIRE DESIGNS.

Ask for Catalogue. **73 Western Ave., MINNEAPOLIS, MINN.**

Up-to-Date Directory

Giving all the Country's

Florists
Seedsmen
Nurserymen

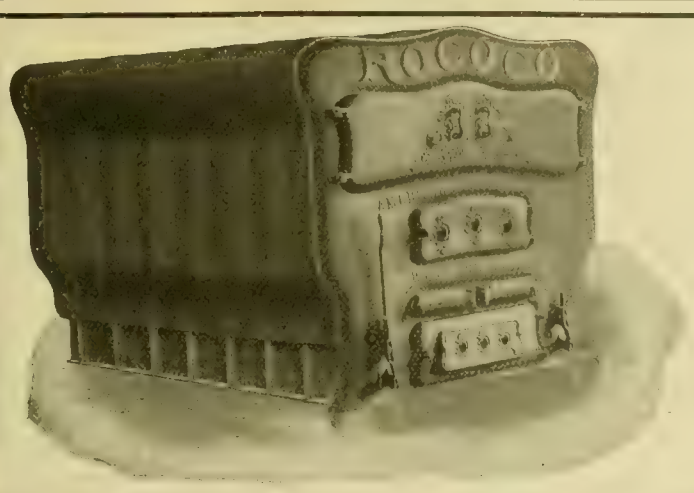
PRICE $3.00.

Glen Cove, N. Y.

The regular monthly meeting of the Nassau County Horticultural Society was held in Pembroke hall February 10. There was not such a good attendance as usual. An exceptionally fine lot of stock was staged for the monthly-points competition, conspicuous among which was a vase of gardenias shown by J. Wilson. S. J. Trepess showed a beautiful plant of Cœlogyne cristata, which attracted much attention. The flowers, plants, fruit and vegetables staged for exhibition were exceptionally fine.

J. A. Robinson, Center Island, and Joseph Quentin, Hempstead, were elected to active membership.

WM. H. MACKENZIE, Sec'y.



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The ROCOCO

Steam or water boiler will do its share.
A boiler built for practical florists.
Boilers Perfect... ...Prices Right.

American Heater Fdy. Co.
West Chicago, Illinois.

Sometimes You Forget

That we make every part of a greenhouse but the glass—that we sell any part.

You remember us on the bigger things, but often it never enters your head to think of sending to us for a tub of putty or a few fiittings.

But you ought to— and here's why:

Our sole business is manufacturing every part of a greenhouse. We give it our undivided attention.

Everything we make is made with an exact knowledge of just what conditions it must meet, and that is why an ever increasing number from all over the country are continually sending us their orders for just the smaller things.

You know how well we do the big things, and if you will only stop to think, it is just because of well done little things, that it is possible for us to do so thoroughly and enduringly the big things.

So whether white lead, glazing nails bench fittings, it matters not what, first write to

LORD & BURNHAM CO.

Main Sales Office:
1133 Broadway, New York.

Boston: 819 Tremont Bldg.
Philadelphia. 1215 Filbert St.

USE COLD-FRAMES TO INCREASE GREENHOUSE CAPACITY!

Hot-Bed Sash
Size 3x6 ft. 1¾ thick. Glazed with 6-inch glass
$1.69
Dealer's Price $3.50

It is easy to avoid overcrowding your establishment with the thousands of young plants that demand so much room. **Cold-Frames solve the problem!** We sell the best Hot-Bed Sash made, for such low prices that you can **double** the capacity of your plant at moderate cost.

Transfer Bedding Plants and Plants for Stock to Cold-Frames Until Ready for Planting or Marketing

Build your Cold-Frames, run steam pipes through them and simply use sufficient heat to keep out frost. **It pays big!**

20,000 HOT-BED SASH in Lots to Suit, at Cut Prices!

Gordon-Van Tine Hot-Bed Sash are made of Louisiana Cypress, with blind-mortised, double-shouldered joints which are absolutely moisture-proof. Primed with pure raw Linseed Oil. Glazed with Greenhouse Putty and plenty of points. Strongest, most durable Hot-Bed Sash on the market. Prices lower than anywhere else in America.

Size 3x6—1¾, glazed with 6-inch glass, **$1.69.** Size 3x6—1¾, glazed with 10-inch glass, **$1.75.**

GLASS AT 300% SAVING! We buy glass in immense quantities, and sell at cut prices that save you 300 per cent.

Write for FREE CATALOG of Hot-Bed and Cold-Frame Sash and Florists' Supplies

We guarantee quality, safe delivery and satisfaction or money refunded. Cut prices on every item. Goods shipped without delay. Order from this ad or get catalog first. Write us today.

GORDON-VAN TINE CO., 1579 Case St., Davenport, Ia.

THE KROESCHELL BOILER

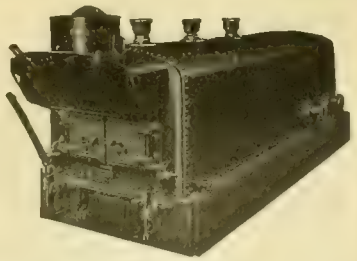
is the only perfect

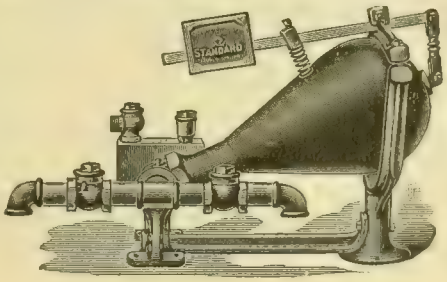
HOT WATER BOILER.

We manufacture every type of boiler in use, but our greenhouse boiler, because of its special construction, possesses many advantages over any other type.

Prices and catalogue on application.

KROESCHELL BROS. CO.
45 Erie Street, CHICAGO.





The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the **Trap, Duplex Gutter,** and **Standard Ventilating Machinery,** mailed free upon application.

E. HIPPARD, Youngstown, O.

IOLA, KANS.—The greenhouse of George Odor suffered a slight loss by fire—about $25—January 30.

Louisiana Red Cypress

As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

American Greenhouses in France.

We learn from the King Construction Co., North Tonawanda, N. Y., that an order has been received by cable from Richon & Hermes, a prominent horticultural concern at Parame, France, for two of its large iron frame greenhouses. Before deciding to increase the greenhouse plant, Mr. Richon made a visit to England, Holland, Belgium and Germany in search of the most modern construction. Two visits were also made to the United States. The fact that the King Construction Co.'s iron frame greenhouses have finally been selected, is certainly a compliment to the company as well as a tribute to the advanced state of the art of greenhouse construction in the United States.

The furnishing of commercial greenhouses by the United States to European countries means the opening of a new field for American products. It is stated by the King Construction Co. that negotiations are in progress for the placing of other orders and that by the end of the season it is expected there will be numerous greenhouses of this type erected in European countries.

Louisiana Red Cypress.

While there are those in the northern country who, because of their lack of knowledge of the engineering problems to be solved, claim New Orleans to be far behind the times in the matter of water supply, it is, nevertheless, a fact that New Orleans has the unique distinction of being probably the first city in the United States to put in a waterworks system and to operate it successfully.

For years northern visitors to New Orleans have been curious regarding the above ground cisterns in the shape of cypress tanks with which the city is supplied from one end to the other. The purity of the water from these tanks has also been a source of suprise, in view of the fact that many such tanks in use today are 50 years or more old. Each household is supplied with one or more tanks (or cisterns) and the residents are very strenuous in their opposition to the order, which will soon become effective, to remove these tanks and depend entirely upon the new waterworks system now being installed.

In the olden times, considerably more than 100 years ago, there were many wealthy French and Spanish families residing in that portion of New Orleans north of Canal street to Esplanade avenue, and between Rampart street and the river. A number of these families decided upon a waterworks system of their own, to supply running water for general use and for fountains in their courtyards, and it was during the French sovereignty of Louisiana that the system was built. The mains were of cypress logs 18 feet long and averaging 22 inches in diameter, through which, end to end, were bored 5-inch holes. The sections of pipe were joined, end to end, by iron connections driven into the end of each log. Wooden plugs made of cypress were used at the ends of the various mains and to cut off the supply from a delinquent consumer. The system started at the foot of Canal street, extended to Chartres, and for several blocks out Chartres, with branches running each way. A large wooden tank was constructed at the foot of Canal street, wooden pumps were installed, and slaves were constantly employed pumping water into the tank by hand. The water mains were connected with this tank and the gravity system of distribution employed.

It is not known just when this system was installed, but it is known that Benjamin Latrode was granted certain privileges and took over the system in 1811. Presumably the system had been installed quite a number of years before, but it is impossible to state how many. Latrode evidently had his troubles and failed in the extension of his waterworks system, as the plant passed into the hands of the Commercial bank in 1833. The bank operated the plant for a great many years thereafter, and it was only superseded by the more modern system installed some years ago.

The cut shown herewith is a section of the old main, and there is also a connecting pipe and a plug. The cypress is in as sound condition as when it was installed, although the metal connection is badly corroded. This section of pipe was dug up in Chartres street a few years ago, having been under ground for more than 100 years. The owner of this old relic insisted upon the decorations before he would allow the photograph to be taken.

Greenhouse Building.

Desplaines, Ill.—Sol. Garland, two 30x200-foot houses.

Rockford, Ill.—Max Sadewater, three greenhouses.

Hagerstown, Md.—C. C. Hoover, one greenhouse.

Watervliet, N. Y.—W. W. Hannell, two houses 30x100 feet each for roses; Henkes Bros., one house 28x120 feet.

Wilkesbarre, Pa.—Gottlieb Baumann, two greenhouses.

Morton Grove, Ill.—Poehlmann Bros. Co., 13 houses 27x350 feet for roses.

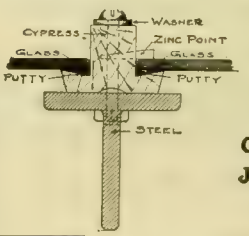
Geigertown, Pa.—J. Luther Zerr, addition to greenhouses.

The "T" Bar Curved Eave Greenhouse

Is absolutely Dripless, glass rests on Wood, reducing breakage and condensation, less wood than any other construction, wood all exposed—all steel inside, all wood outside.

Greenhouses of Every Type.

JOHN A. PAYNE,



Greenhouse Designer and Builder,

260-274 Culver Ave. JERSEY CITY, N, J.

Indianapolis.

BUSINESS GOOD.

Business last week was good; flowers were not very plentiful and sold at good prices. St. Valentine's day business was unusually good. Violets were not quite so popular as formerly; roses sold best and there was some demand for pot plants.

NOTES.

Dr. Dow, who formerly had greenhouses near this city, has lost his father, Mr. Dow, Sr., fell dead on Pennsylvania street on Saturday. Dr. Dow has the sympathy of all his florist friends.

The St. Valentine's day picture in Bertermann Bros. window was an immense valentine card about five feet square showing cupid surrounded by flowers.

Warner & Co. is the name of a new firm doing business at 1614 College avenue; both partners are well known locally.

Meyer Keller of the South Park Floral Co. is at St. Vincent's hospital, recovering from an operation.

H. W. Rieman has added another very stylish two-horse wagon to his delivery department. J.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, FEBRUARY 27, 1909. No. 1082

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

Copyright, 1909, by American Florist Company

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AMERICAN FLORIST COMPANY,

324 Dearborn St., Chicago.

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Address all correspondence, subscriptions, etc., American Florist Co., 324 Dearborn St., Chicago.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.: W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August, 1909

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N.Y., March 17, 1909. AUG. POEHLMANN, Chicago, president; BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., president; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.
ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect

Painted Flowers in Winter.

How strange to greet, this frosty morn,
In graceful counterfeit of flowers,
These children of the meadows, born
Of sunshine and of showers!

How well the conscious wood retains,
The pictures of its flower-sown home,
The lights and shades, the purple stains,
And golden hues of bloom!

It was a happy thought to bring
To the dark season's frost and rime
This painted memory of spring,
This dream of summer-time.

Our hearts are lighter for its sake,
Our fancy's age renews its youth,
And dim-remembered fictions take
The guise of present truth.—Whittier.

SUGGESTIONS FOR PLANT GROWERS.

Easter Lilies.

Pot plants of Easter lilies are always good sellers around that time, and it is well to select the plants and so treat them that they will be on time. It is much easier and more satisfactory to keep them back a little at the finish than to have to hasten them, unless, as sometimes happens, the weather is unseasonably hot around Easter. Any plants then that are likely to be behind, or that are not beginning to show signs of bud formation should have the temperature gradually increased. With pot plants good foliage is a valuable asset, so keep them well apart and use care, when moving them around for a new stand, not to damage the leaves by bruising. See, too, that insects are given no quarter: if any appear and, as a preventive measure, fumigate lightly once in two weeks. From the time the buds have attained good size, and before they begin to droop the plants can easily be retarded by keeping them cooler and shading, but it is not advisable before this stage.

Forcing Lilac for Easter.

For forcing lilac we have found Marie LeGrey for white and Charles X for pink the best varieties. The plants come from Belgium and as soon as received are heeled in in some well protected spot and as wanted after a good frost are brought inside. The plants are potted and placed in a warm, moist atmosphere and kept dark. The temperature should be about 70°. Syringe several times a day to help swell the buds, and keep the plants from drying out. When the flower has somewhat advanced bring into a light place. A temperature of 65° or 66° will bring good results and the plants must be kept syringed. For Easter forcing the plants should be brought inside about four weeks before Easter. As the season advances the plants can be brought directly from outdoors into the light. A rose temperature suits them well at all times.

Palms.

After the dull weather experienced in many sections this winter the foliage of palms is very apt to be soft and easily injured by bright sunlight. We do not advise shading a day earlier than is absolutely necessary, and the time may be put off considerably by careful growers who will ventilate early and damp the floors and stages in the palm houses regularly. Still with the advent of March there are frequently bright, hot bursts of sun, often when cold winds blow and the ventilators cannot be opened much and this is when the plants suffer. Be warned in time, and on a bright day of this kind feel the foliage and if it is inclined to heat up use some shading. Just at first a little muddy water or thin whitewash thrown over the glass from an old syringe will be sufficient break for the sun's rays. But do something, for palms once burned are much depreciated in value, at least for the season, and it behooves the grower to be on his guard.

Azalea Mollis.

Careful handling at all stages is necessary with the imported plants of Azalea mollis. The flower buds are very prominent and the least touch will sometimes break off a number of them, thus rendering the plants far less attractive at flowering time. Another cause of bud dropping is a very dry atmosphere after the plants are potted. The clumps should be placed in pots just large enough to take them easily, as they do not make a great deal of root; the soil should be well firmed around the clumps and given a thorough soaking of water. As the root action will not be very vigorous, this will last them for some time, but, as hinted above, the tops must be kept well moistened, this being done by frequent spraying. Azalea mollis differs from many other shrubs we force in that, if necessary, it may go into heat at once, the stored up nutriment in the buds being sufficient to insure the formation and development of the flowers. Not that this is good cultural practice. If the plants were to be kept over for another season we should say let them come along steadily. But where the plants are needed in flower early this azalea and the Ghent varieties will answer to heat better than almost any other plant that has not been artificially retarded, and the condition of the plants after flowering is a matter which little concerns the grower. If well colored flowers are

needed the heat and moisture should be reduced as soon as the color of the buds can be seen, as the more slowly, in reason, these develop, the better the color will be, especially in the pink varieties.

Begonia Gloire De Lorraine.

The earlier now the propagation of Begonia Gloire de Lorraine is finished the better and larger the plants will be for though, apparently, the plants make better progress in the early summer months yet they are rooting and gaining strength and will start up the better for it. Cuttings made from leaves are best and these should be inserted just to the end of the stem in rather loose sand as the roots at first are rather weak. Water them carefully so as not to wash the sand away from the leaf and keep it always moist. The atmosphere around the cuttings must also be kept close and rather moist to insure fast and rapid rooting. Where earlier inserted cuttings are well rooted these may be potted into the 2-inch size, using a very light compost of principally sand and leaf mould. Stand them pot thick at first and until they recover from the disturbance, but afterwards, when re-established, place them well apart so that the air plays freely around them. A good clear light, with shade from bright sunlight, will be necessary from this stage onward.

Cyclamens.

When cyclamen seed was sown in August or September as advised the plants should now be nice stocky little specimens, standing well apart with several leaves and fit for potting into 2-inch pots. The advantage of thin sowing will now be apparent as the plants will not have become drawn on any side; they will be well rooted and will rapidly take hold of the new soil in the pots. Prepare a compost of good fibry loam with a third of peat and a little dried cow manure and sand and use dry, clean pots so that, when turned out for their next shift, the roots will slip out easily and without damage. This they will not do if wet or dirty pots are used. In potting let the young corm be just beneath the surface. If deeply buried on the one hand, or left entirely uncovered on the other, progress will not be so rapid. Just buried the bulbs soon lift of themselves so that the crown just peeps out of the soil, and all is well. Give one watering to settle the soil well, and after that, until the roots are again established, water with great care. A shelf near the glass is the best place for the plants, but in any case the benches used for them must be in a good light. Keep the old plants growing for another month if they are to be kept over; if not, throw any of them away that are not needed for seed saving.

Begonia Clibran's Pink.

The fine new winter flowering begonia, herewith illustrated, has been already referred to under our "Plant Notes," in the issue of January 16. It is a hybrid between B. Socotrana and a summer flowering tuberous variety, and it received an award of merit from the Royal Horticultural Society of England when exhibited at Westminster in November last. The flowers average three inches in diameter, are perfectly double and of a bright pink color, produced in long, drooping sprays, carrying from 8 to 13 flowers each. The plant is a good grower and a free bloomer, with handsome, dark green leaves. It is totally distinct and is a great advance upon previously existing varieties.

THE RETAIL TRADE

SAINT PATRICK'S day is coming. Don't go to the extreme by dying roses and tulips. It is all right for a carnation but stop there. Get an old harp, cover it with smilax, making the strings of gold and filling the base with green carnations; it might be wise to keep daffodils out. Make a curtain of smilax in the background. Plants of oxalis sell well on this day.

The Broken Column.

SEE SUPPLEMENT WITH THIS ISSUE.

The broken column is an old design but a very beautiful one when well carried out and one that the up-to-date retailer will do well to cultivate. Good and suggestive designs that are at the same time artistic are not too plentiful and we cannot afford to let any of them pass into oblivion. In winter, or at times when stock is high in price, there may be a reason for turning down such a design, as it uses a lot of stock, but in summer, when asters and other flowers are plentiful, it is one of the most satisfactory, both to retailer and purchaser. The shaft of the column here shown is of white asters with a band of roses and adiantum while the base is composed of Lilium auratum, roses, sweet peas and fern.

Begonia Clibran's Pink.

A short time ago the writer had occasion to make a similar design which was very attractive and may be briefly described. The shaft was made solid of violets with a band of white orchids (Dendrobium formosum) and Adiantum Farleyense, the base being composed of polished ivy leaves with a large cluster of violets, white orchids and Farleyense well off in the left corner. This was simple but the effect was very rich and good and the design gave the greatest satisfaction. We remember the time when it was not unusual for gardeners to come into the store with baskets of short carnations, asters or other flowers in summer and they were glad to sell them for 50 cents or 75 cents per 100. But today the commission man wants from two to four cents each for such stock so there is a very good reason for the retailer not running into such designs as this when he is tied down to a certain price. But there is something very telling and rich about the broken column when properly done and we should be sorry to see it become obsolete. S.

The Window as an Advertisement.

THE FUNCTION OF ADVERTISING IS TO AID EXCHANGE.

The retail flower trade as now developed is not a bolt from the blue, but a process of evolution. In a condition of wild nature, only the hardiest survived. The original crude gardener rightly thought that a little shelter would protect the weaklings. The crude method he had at hand was to make a depression and let the wild blasts blow over the sunken vegetation. Pits are necessarily cumbersome and the range of production is circumscribed. The crop grown under such conditions had to take in favorable weather conditions. To operate pits in winter is like keeping open an ice-bound harbor.

The invention of glass was accidentally discovered. Presumably the aid of glass was accidentally hit upon by some experimental gardener. The knowledge that the sun's rays would penetrate glass and the heat be bottled up and utilized was an immense advancement over crude pits and the gardeners' product was limited only to the amount of space he was able to cover with greenhouse construction. Another problem was to get the supply nearer the demand in order to facilitate exchange. Retail stores sprang up naturally and the retail florist was in the fourth remove from wild nature.

Now that retail stores are permanent institutions, the problem is to operate them economically and efficiently. The prime requisite is to give satisfaction to patrons and the florist can depend on their support. The present writer has evinced a taste for the economics of advertising in bridging the gaps of distribution and exchange and can confirm the statement of advertising agencies that money paid for publicity is largely a social waste "The window is the eye of the shop." Therefore it would be good policy to have attractive windows with an artistic touch thrown in and not a heterogeneous mass of vegetation. To advertise promiscuously is like casting pearls before swine. Better spend the money in developing interest and instructing the public taste.

Detroit. MICHAEL SULLIVAN.

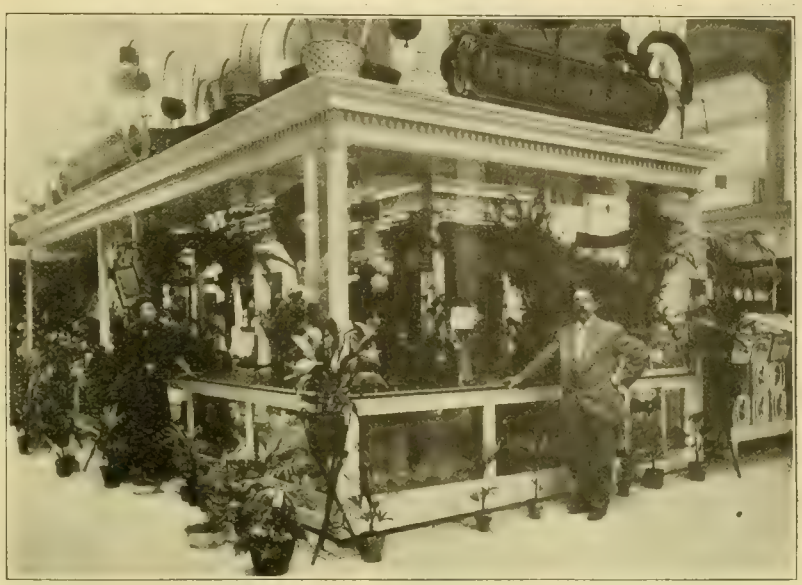
Pansy Decorations.

A decoration for a luncheon that is seldom seen, yet which may be made very effective, is a low silver bowl filled with pansies of all colors. If the stems are short, a piece of wire netting can be placed over the top of the bowl and the pansies stuck in it. The effect is enhanced if the bowl is set on a large, round mirror surrounded with a border of small ferns. At each plate have a small pot of growing pansies, which may later be given as souvenirs. These look well if the pots are set in small paper cases made of stiff cardboard covered with silver paper.

Should there be a guest of honor his or her plants may be larger than the other, or the case can be a small silver jardiniere. The candle shades should carry out the predominating tones of the pansies. Silver candlesticks should be used if possible. Effective shades can be made of white paper garlanded with artificial pansies.—Washington Times.

The Francis Floral Depot.

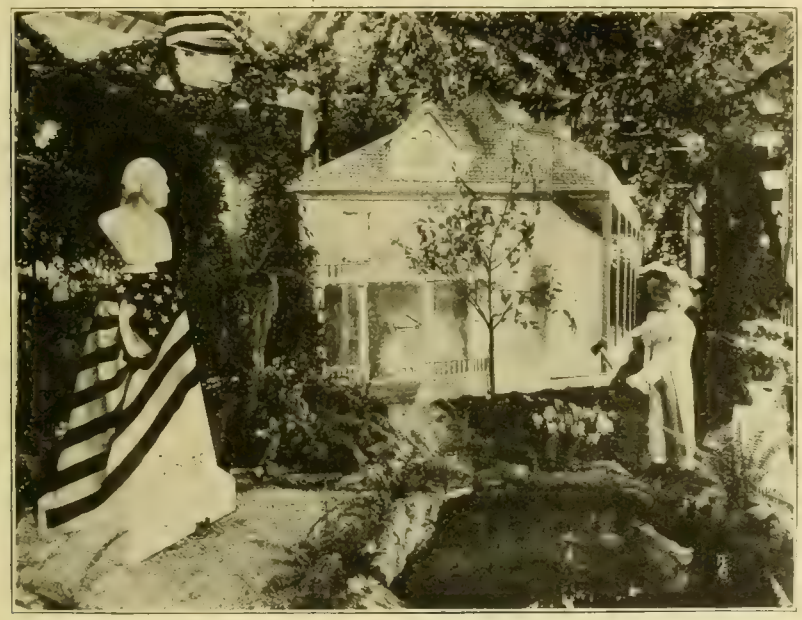
The accompanying illustration shows the attractive store of Frank T. Schlotzhauer recently opened in the California market, San Francisco, Calif. Mr. Schlotzhauer, who is running it with the assistance of his daughters, is an eastern man, well known in New York, where he was with G. M. Stumpp, 761 Fifth avenue, for 17 years. Although he has been only a short time in business in the California market, he has built up a fine trade with his artistic and original work. His stall is located in about the center of the market, which is one of the finest in the country, 38,000 square feet of white tiling having been used in its construction. P.



RETAIL STORE OF THE FRANCIS FLORAL CO., SAN FRANCISCO, CALIF.

Hughes' Washington Window.

Although the accompanying illustration gives a good idea of the principal window in H. R. Hughes' store at West Van Buren street, Chicago, which he arranged as a special attraction for Washington's birthday, it does not show the interested crowds that gathered around it all the time it was exhibited or the passing passengers on the surface cars, craning their necks to catch a view of the store as they pass. Hughes has the right idea in advertising all right; he makes himself and his store talked about, he interests the children who in turn interest their parents and he puts an amount of life into his business that is not usual to say the least. The store was thronged with people on Sunday and over 6,000 of his special Washington birthday cards were given away on that day. This is sowing the seed and he deserves to reap the harvest in business.



WASHINGTON WINDOW OF H. R. HUGHES, VAN BUREN ST. CHICAGO.

In the present window the youthful George is shown with his memorable hatchet, the cherry tree and his home at Mount Vernon, and the thing is carried out with an attention to truth in detail which characterizes all Mr. Hughes undertakes. At the left of the window shown, a room is fitted up in old style with oak furniture, old fashioned hearth and chimney breast and other fittings where customers may retire for writing or rest, a pleasant and comfortable retreat. The lighting effects in this store we have already referred to and in the present instance it is only necessary to say that the light has been used to heighten the illusion presented of an old style, old time room, and used successfully. We congratulate Mr. Hughes in his latest effort of the series that is making his name known all over the United States as a florist with up-to-date advertising ideas.

MENOMINEE, MICH.—Chas. Schulz has purchased property adjacent to his greenhouse plant, which he intends to enlarge in the near future.

ORANGE, N. J.—Thieves entered the store of Popken & Collins, 186 Main street, February 15, by crawling through a coal hole in the rear of the greenhouse and forcing the rear door of the office. Nothing was taken, as the thieves appear to have been frightened away before starting to work.

Hydrangeas for Easter.

I read with interest a well-written article on hydrangeas in the issue of February 13, signed "Commercial." I wish to add to this valuable article a few hints that have come under my observation the past six years in growing this valuable plant for Easter. We carry out the following instructions as near as possible to grow such specimens as the illustration given on page 119 of one of our hydrangea houses.

Between February 1 and March 15 we take cuttings from plants that are being forced for Easter. As soon as rooted they are potted in 2½-inch pots in some good light loamy soil with a sharp sprinkling of sand and placed in a light, airy house. As soon as the pots are well filled with roots they are shifted into 4-inch pots and placed in the same house. I might add that they receive their first and last topping June 1. Then they are ready to be shifted into their flowering pots or their last shift. For nice single plants we select the strongest plants and place them in 6 and 7-inch pots; for larger specimens we place 4 or 5 plants in a 10-inch pan. We can regulate the sizes that sell best in this way.

The plants are then placed in a frame with a full exposure to the sun, watering is carefully looked after, and by the middle of September they should be well enough along to gradually cease watering. We allow the plants to remain there until they have had one or two sharp frosts; then they are removed to a shed. Here they are allowed to rest until time for forcing.

Before bringing the plants in for forcing (last week in December for Easter) we remove quite a good deal of the old soil from the top of the pots and give each plant a dressing of well pulverized rotted cow manure. This gives them sufficient feed in the early stages of forcing. After the buds show we apply liquid manure water once a week until flowers show color, then this is withdrawn. We aim to have same well developed at least 10 days before Easter so they can be hardened off.

C. P. DUDLEY.

Parkersburg, W. Va.

Twin Flowered Narcissus Golden Spur.

The accompanying illustration is interesting showing as it does the very unusual feature of a twin-flowered Narcissus Golden Spur. Howcroft & Watkins, the well-known bulb merchants of London, Eng., who sent us the photograph from which the illustration was prepared, say they have never seen one before, though they handle large quantities of the bulbs annually. We do not remember seeing a twin-flowered scape of this variety either though, of course, it is not uncommon with some of the hybrid forms.

Notes on Dahlias.

Although most of the large dahlia growers have had their stock roots in the propagating bench for some time, yet the present is a good time to plant stock roots to get the best results. There is little gained by planting so early. It is true we get earlier plants, but we lose in the quality and the results; the cost of carrying the plants on in the proper way is also an item; the stock is now in much better shape to grow and will give not only better cuttings, but more of them, consequently they will root with less loss and make better plants. This does not apply so much to some varieties as to others.

The evil results of starting stock roots too soon is generally called over propagation, but should be called improper propagation. Where early plants must be had for shipping south, part of the stock should be planted early and then thrown out when it becomes weakened, depending on the later stock for the main crop. We are giving considerable stress to this point as we have seen so many failures resulting.

Another cause for failure is the lack of proper selection of stock. I will give a quotation from an article in one of the trade papers written by its regular correspondent after visiting a concern that grows dahlias largely: "Here is where the order clerk and the propagator can work in harmony as the small or undersized roots are equally as good for propagating." This is very erroneous, for two reasons. As every dahlia grower (and many others to their sorrow) know, there are two kinds of degeneration in dahlias. In one the plant grows more vigorously, taller and stronger in every way, but the flower comes semi-double. The root also is larger. In the other, the plant is dwarfed and smaller in every way, the flowers are more highly colored (like the peach when attacked by the yellows), much smaller, showing very little vigor, although coming perfectly double, and making very small roots. This latter is called dahlia disease and develops until the plants almost refuse to bloom at all.

It will therefore be seen that the greatest care should be taken to select the stock plants when growing, but if this is not done, be sure to select strong, vigorous medium-sized roots for propagating purposes. Some propagators use sand in the stock bench, some use garden soil, while others use a rich compost of ¼ to 1-3 rotted manure with a light application of pure raw bone meal. A temperature of 55° to 60°, with judicious watering, will insure strong cuttings with the greatest stamina, and the stock plants will not become exhausted so soon.

It is hardly necessary to dwell on the cutting bench, further than to say that almost any kind of sand will root dahlias, in a temperature of 60° to 65°. A higher temperature will root them more quickly, but the plants will be weaker, while a lower temperature will give stronger plants, but take longer. Do not over-water the stock bench; it will make the cuttings soft and more liable to wilt and damp off in the cutting bench. This is one of the most important points and causes the greatest number of failures.

L. K. PEACOCK.

Begonia Gloire de Lorraine.

Those who wish to work up a large stock of Begonia Gloire de Lorraine or any of the nearly related varieties can start right in now and keep it up as long as necessary. The earlier this species is propagated after the turn of the year the better if large showy plants are needed. Practically all growers now

A Twin Flowered Narcissus Golden Spur.

use leaf cuttings of this begonia. Stem cuttings are thought by some to be as good or even better, but we have always had the best results from leaves. Stem cuttings do not, according to our experience, produce plants of so good a habit; more stock plants are needed if this system is followed and, although at first the plants look larger they are no earlier than those produced from leaves.

Cleanliness throughout is of the utmost importance in the culture of B. Gloire de Lorraine and this is especially important at propagating time. If the cuttings are to be rooted in pots see that these are absolutely clean, dry and well drained before filling with sharp sand. If on the bench the same points will need attention. Although the cuttings must not be so loosely placed that the watering is apt to disturb them yet the sand need not be so firm as is necessary when propagating roses and carnations. In fact we have found it best to let the first watering settle the sand around the leaf cuttings leaving it, first of all, so loose that it sinks enough with the watering to come just above where the leaf stem joins the spreading portion of the leaf. The reason for this is, the roots at first are by no means strong and cannot push through hard layers of soil or sand.

Another dangerous period in the culture of this begonia is the time the plants are in their first pots. Here again the root action is not vigorous and it is not advisable to rush the plants into a quick growth. This slow period is most trying to beginners in its culture, but if they will keep the condition of the plants in mind and not overwater the roots or allow a scum to form on the surface they will come through all right. This first potting should take place as soon as the cuttings are well rooted and small pots should be used. The compost at this time should consist of a light loam, leaf mould and a liberal addition of sharp sand but no manure. Should the soil be very poor a light sprinkling of guano or fine bone meal may be given but nothing at all likely to sour can be allowed. A temperature of 60° by night is ample, running up with sun heat by day with air on but not pushing the fire heat. A constant circulation of air around the plants is a great help, at this stage, to keeping the foliage of good color and the plants sturdy which is of importance as it is at this time that the foundation is laid for a good plant or otherwise.

Light is essential all through the growing season and the nearer the plants are to the glass the better. But a light shading is necessary at all times when the weather is bright, after February, more, of course, after repotting than when the plants are well established. Light to a great extent helps the color of the foliage but sun takes it out. Growers need not be alarmed at the pale tint of the leaves early in the season; this seems natural to the plant and the leaves will take on a better color as the season advances provided the plants are properly treated. While it is not advisable to allow the plants to become potbound before repotting yet they should be allowed to feel their pots and a small shift only should be given, two shifts from what may be termed the stock size to the flowering size being better than one. The time of repotting will vary a little according to the time the cuttings were put in the sand, but the second potting should usually take place about May and the final shift into their flowering pots in August.

At both these pottings use a compost consisting of good fibry loam three parts and leaf mould and sand one part. For manure add one part in eight of well dried old cow manure broken up finely. The final potting should be more firm than the previous ones as the plants begin to grow with a will after the end of July and consequently the roots are better able to take care of themselves. During the whole growing season the plants must be kept well apart to produce well balanced specimens. From the time they are well established in their first pots until, say the end of September, the plants must be kept pinched, just the points of the shoots being taken. This prevents their flowering and forms a bushy well furnished specimen. After this a neat stake or two will be needed and the growth must be looped up to these, preferably with green tie though the first ties will be well hidden before the plants are finished. This plant is by no means a gross feeder and strong manures are not needed at any stage. But from the time they are well estab-

BEGONIA GLOIRE DE LORRAINE AT SAMEUL MURRAY'S, KANSAS CITY, MO.

lished in their flowering pots until they are finished, alternate waterings at intervals of a week with soot water and ordinary manure water will be of great assistance in rounding out a fine, well flowered plant.

Besides the ordinary market pot plants B. Gloire de Lorraine is excellent for growing in baskets, especially by private gardeners for conservatory decoration. Large or small plants may be grown with equal facility and success, it being only a matter of thoroughly draining the baskets and using sufficient plants. Very little in the way of support is necessary for basket plants. The foundation may be laid by pinching and supporting the plants say until the end of July after which they may be allowed practically their own way when they will droop around and quite hide the baskets. A made up basket plant say in a 30-inch basket, drooping all around and covered with the lovely pink flowers is about as fine a feature as can be mentioned during the dull days of November and December. The worst trouble with this plant as regards disease is a spot that appears in the leaves. By growing the plants in very moist houses and allowing little air this trouble is intensified, but if clean stock is used and ample light and air and plenty of room are given the plants very little trouble will be found in this way. Should any spotted leaves appear prick them off and take them out of the house and burn them at once to prevent the disease spreading. COMMERCIAL.

We have received the following interesting communication from Samuel Murray, Kansas City, Mo., upon whose place the fine plants of Begonia Gloire de Lorraine illustrated were grown:

"There has been a good deal said about Begonia Gloire de Lorraine in the trade papers the past year, and I do not think that I could say anything that would be new or interesting. I believe that the man who propagates the leaf cuttings and sends out first class, healthy little plants in May and June, has done the most and deserves the most credit. We buy all of our plants in 2-inch pots from leaf cuttings, and from the time we pot them in 3-inch pots, we never neglect them for one moment until they are sold, and have been fully repaid for all of the attention they were given.

"At first we use pure fresh leaf mould and sand, and at each repotting thereafter we make the compost a little heavier and richer. I attribute our success very largely to the keeping of the house pure, sweet and healthy, giving the plants all the light that they will stand, and plenty of room to develop, so that the fresh air can circulate all around them.

"Wm. Sharp, my grower, companion and friend for over 20 years, has no superior in watering and airing. We both love this begonia and take genuine pleasure in working side by side all summer, watching the plants that cost us 12 and 15 cents grow into specimens. Many of them are sold at Christmas for $10 to $15 each. Surely, it is worth the while. What is finer than a well done Lorraine and the supreme satisfaction of having done something well?"

"SAMUEL MURRAY."

Favorite Flowers of Famous People.

QUEEN ALEXANDRA LIKES ROSE HERMOSA.

Queen Alexandra's favorite rose is Hermosa, a beautiful and free-flowering kind which somewhat resembles the old monthly rose in habit, but is a much superior one in its larger and more substantial pink blooms, which flower profusely from June (the "month of roses") until Christmas. King Edward is also an admirer of Hermosa, and some 20,000 plants of this "Royal" rose adorn the policies at Sandringham.

SOLOMON A LOVER OF TREES.

Solomon had a passion for trees. Indeed, he is credited with being the first who had transplanted to the home soil those from other parts of the world. Judea in his day was famous for its balsam, the favorite plant of the queen of Sheba, and she, knowing Solomon's liking for transplanting, is said to have presented him with a root of it.

MOHAMMED'S FAVORITE FLOWER.

Mohammed declared the yellow daffodil, which grows abundantly throughout Western Asia, to be his favorite flower; and it is related that concerning it his counsel was:—"Whoever has two loaves of bread let him trade one for a blossom of daffodil; for bread is nourishment for the body, while the daffodil is food for the soul."

PORTLAND, ME.—The store of E. J. Harmon & Co., on Congress street, was badly damaged by fire February 15, the loss being about $300, fully covered by insurance.

PEOPLE WE KNOW.

C. E. Gullett.

C. E. Gullett, of Lincoln, who was elected president of the Illinois State Florists' Association at its annual meeting at Springfield, as reported in our last issue, is an enthusiastic florist and member of the firm of W. H. Gullett & Sons. His business is his hobby and he has given it close attention all his life. A better selection could not have been made and Mr. Gullett will fill the position with credit both to himself and the association that has thus honored him. He ranks among the most successful florists of the state and is one of Lincoln's most highly respected business men. He is at the head of one of the largest floral establishments to be found in the state, having greenhouses with over 80,000 square feet of glass, and which does a large business with both Chicago and St. Louis.

Geo. B. Franks.

Geo. B. Franks, the vice-president-elect of the Illinois State Florists' Association is a young and energetic business man with a life knowledge of the florists' trade, gained with his father, Thos. Franks, at Champaign, Ill., and the association has chosen wisely. In connection with the meeting of the association at Urbana, next year, it may be well to note that all florists visiting the University of Illinois at Urbana also visit Champaign and it will be well to keep in mind that this town will naturally undertake a good deal of the work in entertaining the visitors to that meeting and should receive due credit for the same. When the time comes Vice-president Franks will not be found wanting.

Our Experiment Station.

A paper read by H. B. Dorner at the annual meeting of the Illinois State Florists' Association at Springfield, February 16-17.

As a result of the appropriations of two years ago the experiment station has undertaken to carry out certain lines of work relating to floriculture. In order to do this so that all parts of the experiments are under perfect control the erection of some new greenhouses was necessary. During the last summer two houses and a service building were constructed. In erecting these the aim was to build model commercial houses, and as a result the state possesses houses second to none. The ground plan chosen is one which allows of expansion, and in fact all parts of the plant have been so designed that new houses can be added without changing or interfering with those already up. The plans call for a range of detached houses, with intervals of 14 feet between, extending east and west from a corridor or connecting house extending north and south. The service building, which also contains the heating plant, connects with the corridor house on the north. All houses can thus be reached from the service building without going outside.

GREENHOUSES.

The two houses already erected were designed to avoid shading as much as possible, and so are of the very lightest construction possible, commensurate with strength. Each house is 28x105 feet, thus making it possible to have four 100-foot benches, each four feet wide. All parts above the gutters are of clear cypress with sash bars of the type ordinarily used in greenhouse construction. The gutters are of the King pattern, made of channel iron, supported on posts of 2-inch iron pipes. Each post acts as a down spout and empties into a vitrified tile drain laid along the inside of the wall. Below the gutters, in the side walls, is 24 inches of glass.

C. E. Gullett, Lincoln, Ill.

President-Elect Illinois State Florists' Ass'n.

Ventilation is secured by two lines of interrupted sash operated by Foley ventilating machines.

The walls below the side lights are composed of concrete, but constructed differently to those usually built. The

Geo. B. Franks.

Vice-Pres Elect Illinois State Florists' Ass'n.

iron pipes supporting the gutters are set into concrete piers 12x18 inches, and extend well into the soil to secure a firm foundation. The walls themselves are formed of large concrete slabs, five inches thick reinforced with ⅜-inch iron rods, and fit in between the posts. Their ends rest on the concrete piers and are held in place by concrete pilasters eight inches square, built about the posts. The sill was anchored to this wall and the side rafters put into place. The benches are each 4x100 feet and five inches deep, and are built of pecky cypress, supported on 1-inch iron pipes. The walks between the benches are 28 inches wide, and those between the benches and walls are 22 inches wide. All walks are of cement.

SERVICE BUILDING.

The service building is a structure 26x100 feet, constructed of wood, with plaster finish on the outside. It is situated on the north side of the greenhouses with its longer axis parallel to the longer axis of the greenhouses. A space 16 feet wide was left between the service building and the greenhouses. One-half of this building is large enough to accommodate three 60 h. p. boilers. The concrete floor of this room is about two feet below the floor level of the greenhouses. The other half of the building is devoted to a large work room about 25 feet square, a hall way, an office 13x20 feet, a small laboratory, a small room and a lavatory. The work room contains a reinforced concrete floor, making it possible to scrub it out whenever necessary. Beneath this part of the building is a cellar divided into three rooms. Through the largest of these extend all the steam, water and sewer pipes. This makes an excellent room for storage. The other two rooms, which take up one-half of the cellar space, are used as cut flower and cool storage rooms.

HEATING PLANT.

The heating plant is somewhat different from that used in most places. At the present time power is secured from a 60-h. p. tubular boiler, the setting of which was designed to reduce the amount of smoke as much as possible. Draught is secured by a 70-foot brick stack designed to carry 180-h. p. if necessary. The heating system was constructed to be run either as a high or low pressure sytem. From the top of the boiler a 6-inch feed main drops down into the cellar to the pressure regulator and its accompanying by-pass. From here the main continues and passes under the cross house. At this place branches of 1½-inch pipe come off and passing through 6-inch tile emerge in the greenhouses under the benches and by the side walls.

Under the benches the 1½-inch pipe divides into two 1¼-inch pipes, one extending down each side of the bench. These pass down to the other end, cross over, and come back on the opposite. There are also two wall coils, one of which passes around the end to the door. This, then, gives four lines of pipe under each bench and four on each wall, or 24 pipes in all. Overhead pipes have been omitted altogether. Each flow and return is fitted with a regulating valve at the corridor end of the house, and each return, before it passes into the main return, is fitted with a check valve. The water is returned to the boiler by means of double Morehead traps, one situated in the cellar, and the other over the boiler. The greenhouses, as well as the service building, are furnished with water and electric light from the university plants.

EXPERIMENTS.

During the present winter these houses have been devoted to an experiment on carnations with chemical fertilizers supplementing stable manures. The object

of the experiment is to determine what chemical fertilizers used with manure are best for carnation growing. The results from this experiment will form the foundation for future work on the amount to use for best results. In this work eight benches, each 4x100 feet, were available. Each bench was divided into 16 sections, 4x6 feet, inside measurement. this leaving some three feet over, which was divided into two small sections, one at each end of the bench. The object of this was to have sections protecting the exposed ends of the experimental sections.

Two benches, with 32 sections in all, were used in each experiment, thus repeating the work four times. Each set of benches was planted to a different variety. The sections were numbered from 1 to 32, each number standing for a definite fertilizer combination. As a further precaution, the location of the numbers on the benches, in the various experiments, were changed so that each of the numbers appears at different places in the houses. Thus sections occurring at the exposed ends of the house also occur in the center and at the protected end. The varieties selected for the work were Enchantress, White Perfection, Beacon and Winsor, as representing a variety of characters, especially in growth of flowers and stems.

FERTILIZERS USED.

The fertilizers selected for the work were forms commonly used, and are easily procured. Dried blood, nitrate of soda and sulphate of ammonia for nitrogen; acid phosphate, raw rock phosphate and steamed bone for phosphorus, and potassium sulphate, kainit and wood ashes for the potassium. Ground limestone and ashes were also used to furnish lime. Sheep manure and well rotted stable manure were also used. In preparing the sections a definite amount of manure was added to each of the sections, excepting those used as checks. The chemical fertilizers were then weighed out and added and the whole thoroughly incorporated. All chemical fertilizers were applied in quantities to afford an equal amount of the element for which they were used.

All fertilizers were applied before planting with the exception of those containing nitrogen. Of these one-half of the dried blood was added at this time, and the remainder later. Of the nitrate of soda and sulphate of ammonia, only one-fifth was added before planting. The remainder was added later in four installments. In securing data records are being kept of all the flowers as to size, length of stem, condition of calyx, of the general character of the plants, temperature, water, etc. From this data and general observations the work for the following year will be planned.

CINERARIA MATADOR.—Among noteworthy new plants to be offered for the first time this season Cineraria Matador fills a want that has long been deplored by all in the market plant trade. It enriches the range of colors to be found in hybrid cinerarias by one entirely new, a bright, glistening, terra cotta red, free of the objectionable bluish, washy lilac cast that characterizes the flowers of all the older hybrids. This singularly captivating color, greatly heightened under artificial light, though it is its only distinction, very strongly pleads for it to those in search of meritorious novelties.

THE VIOLET.

THE new Boston violet is obtaining a high character among practical growers, owing to its great freedom of flowering.

Violet Baronne Rothschild.

The accompanying illustration gives a good idea of the fine new single violet being sent out this year by the F. W. Fletcher Co., of Auburndale, Mass., and Chas. H. Totty, Madison, N. J. It has a wonderful character as a free flowering variety of the California type, and is said to commence flowering earlier in the season, and go on later, than any other single, while it retains its exquisite fragrance for several days. In color it is like Princess, but a shade darker, and taken as a whole, there seems to be no other variety to compare with it as an all-round commercial violet.

G.

Notes in Season.

If proper attention has been given the plants thus far, the season of greatest care is past. If, however, ventilation and fumigation have been neglected the time of trouble is at hand. Plants at all infested with aphis must now be cleaned as in the weeks to come this pest increases very rapidly. If badly infested the only real remedy seems the hydrocyanic acid gas. Propagation of strong, healthy runners of the double varieties is now in order. For stock of the single varieties (except in case of new or scarce varieties) we prefer to wait until April and then take divisions from the old clumps, using only the new growth for the purpose.

There is always the task of picking off old and diseased leaves and occasionally stirring the surface of the bed. Unless the soil was very rich at the time of planting, it is well now to give occasional doses of liquid manure. Made from cow or sheep manure, it can do no harm, and in many cases is needed by the plants. Let chemicals alone—they have no place in violet culture—and I think the best growers do not use bone meal for violets. Bone certainly should not be used for this flower unless thoroughly incorporated with the soil several months before planting time.

For the next two months the problem of the grower is not how to produce more flowers, but how to market the avalanche sure to come. Here little advice can be given, as, unfortunately, there is no way of preventing a glut in the market during February and March if we are to grow plants enough to supply the demand from November 1 to February. Although the demand largely increases as spring approaches, the supply more than keeps up, and a period of very low prices and general dissatisfaction is bound to occur. A remedy adopted by some growers is to throw out a part of their plants, using the space for vegetables, bedding plants, or other crops. If generally adopted this might result in steadying the market and preventing the quotation of violets at $1 per 1,000 or less, that we have noted every season for several years. On the other hand, it is a question if the flowers produced in three months will pay the expense of caring for the plants from April until the following February. It is a point each grower must decide for himself.

That the violet does not hold the preeminent position with the ultra fashionable that it did a few years ago, is very evident. Fickle fashion has largely turned to the gardenia and the orchid. The sale of violets has undoubtedly largely increased in the last five years, but a careful analysis of the retail trade

NEW VIOLET BARONNE ROTHSCHILD.

will show that the increase comes, not from our richer patrons, but from the largely increasing numbers of middle class buyers, and in selling to this class price counts for a great deal.

In my opinion the remedy for the present condition lies, not in the building of mammoth houses to cheapen production, but rather in increased care and skill and the production of superlative quality. When a grower can offer better flowers, of improved varieties, of greater fragrance, of better color, or of novel character, then he may again interest his old-time patrons and the violet will come into its own again. Considerable work along the line of improving single varieties has been done in continental Europe during the past decade, and we purpose, shortly, giving a brief resumé of the results of this work. VIOLA.

Carnations in Cement Benches.

We present herewith an illustration of a house of Enchantress carnations at the establishment of the Geo. Wittbold Co.'s Edgebrook (Ill.) establishment. The cement benches have been used successfully for several years at this firm's

ENCHANTRESS CARNATIONS GROWING IN CEMENT BENCHES.

At the Geo. Wittbold Co's., Edgebrook, Ill.

Chicago place for the growing of plants, but last fall the benches shown in our view were erected and a trial made with carnations. So successful has been this venture that the same construction will be used throughout the carnation section. It would be extended, also, to the rose section, but for the question of drainage, a matter that is open for experimentation.

Easter Plants at Frank Oechslin's, Chicago.

During a recent hurried call at the fine establishment of Frank Oechslin, we found his Easter and spring stock looking well and his azaleas are in good shape, fine plants covered in buds, which are opening up readily. Primula obconica is largely grown. The plants are full of flower and of excellent color and varieties. Cyclamens are now being potted from the flats and are a healthy lot. Among forced shrubs we noted fine magnolias, rhododendrons, and other market varieties, some ready for market and others being retarded for Easter. The ferns are, as usual, in the best of condition, from the smallest seedlings to large specimens ready for sale. Cissus discolor is being tried out here as a basket plant, is very distinct, and should be a good seller. He has a large and healthy stock of palms, rubbers and other green foliage plants, as well as remarkably fine batches of rambler and tea roses. The condition of the whole place reflects great credit upon the growers and everyone else concerned.

CHRYSANTHEMUMS

Propagation.

In our last article on this subject attention was called to the importance of air and water in this work. The amount of ventilation given will depend on the outside temperature and the radiation within. It is also true that conditions should govern the water supply. Any thoughtful person knows that there is a wide range in the evaporation, between those rooted without bottom heat and where 60° are maintained. Concrete and tile benches lose the moisture by evaporation faster than those constructed with lumber, and there is a marked difference in this respect between sunny and rainy days.

If the conditions are such that the tops of the cuttings dry off in a few hours, there need be no fear of surplus moisture in the sand, for it is this moisture that sustains the cuttings until rooted, and conditions approaching dryness tend to defeat the operation. There are times when continued severe weather prevents ventilation, that watering should be deferred for some days. And the same rule would apply to prolonged rainy spells.

The dewing over with a fine, mist-like spray is often very beneficial in warm weather, but should be, as a rule, avoided during the winter. Many of the cuttings put in the sand two weeks ago are now in the best condition for potting. It is unwise to allow them to remain in the bench too long, as they are easier to pot and respond better if handled when the roots are about one-half inch in length. It is not, of course, important that the roots be just so far advanced; in fact some kinds will be longer than others, but allowing them to remain until they are three to four inches long is wrong. When the cuttings are ready to handle they may be either potted, pricked out in flats or planted upon the bench for later propagation. Those potted can be repotted as soon as the roots appear through the soil and thus grown on for specimen plants or for benching. Those put into flats make excellent plants for benching, or may be used for stock from which to take cuttings.

The soil for flats and benches where the cuttings are to be taken, is best if rather light and rich as the plants respond more quickly than where heavy soil is used. Whichever method is adopted for establishing the cuttings, see to it the first watering is thorough so that all parts of the soil are wet. Dry feet may be good for we mortals, but it certainly is not for this class of plants. Cutting bench fungus must be guarded against by ample ventilation. This fungus appears like mold on the surface of the sand and increases rapidly under favorable conditions, causing the cutting to decay or slough off. It will attack them after they are rooted and literally mow the cuttings down above the sand. There is another disease but I am not certain it is a fungus. It is first apparent in four to eight days after the cuttings have been inserted, when it will be noticed some have toppled over. Upon examination it will be found the stem has decayed and turned black and so soft the top falls upon the sand. Taking out other cuttings it will be noticed this process of decay begins at the bottom and works upward. It is our belief this is due to foul sand which contains some poisonous matter which is absorbed by the cutting. The best remedy is fresh sand. It may be possible to destroy this poison and thus sweeten the sand by applying a solution of sulphate of copper. This could be most effectively applied when the bench was free of cuttings, and if the solution is hot and administered copiously, so much the better.

ELMER D. SMITH.

OBITUARY.

Eugene Germain.

Eugene Germain, president of the Germain Seed & Plant Co., Los Angeles, Calif., and a pioneer citizen, passed away unexpectedly February 18 after a very short illness, death being ascribed to heart failure. The sudden death of Mr. Germain came as a shock to his many social and business friends. He has been prominently connected for many years in Los Angeles, and was allied with many interests in southern California.

Mr. Germain came to California in 1870, and reached Los Angeles with a blanket on his back and entirely penniless. Two years previously he had arrived in New York from Switzerland, his birthplace, at the age of 21, but his success in life began from the moment he came west. His first business venture was operating supply stores along the line of the Southern Pacific, which was then just building across Arizona and New Mexico. His brother-in-law, Henry H. Baer, was associated with him at this time. He continued in the supply business for about five years but the real foundation to his fortune was laid in 1882, when he centered his attention on southern California, and started the Germain Fruit Co. This venture met with such success that it was reorganized in 1884, and since that time, he had remained at its head. Mr. Germain was instrumental in lowering the fruit rates to the east, and was always interested

Chrysanthemum Society of America.

Review of the Work of the Committees for the Season of 1908.

Name of Variety	Where Shown	Date	Exhibited by	Color	Type	Scale	Color	Form	Fullness	Stem	Foliage	Substance	Depth	Size	Total
Sport Glory of Pacific	Philadelphia	Oct. 17	Samuel Cockburn & Sons, Woodlawn, N. Y.	Dark pink	Ref. Jap.	C	12	10	8	13	13	10		6	72
" " "	New York	Oct. 13	" "	"	"	C	15	10	9	14	14	12		5	79
" " "	Chicago	Oct. 17	" "	"	"	C	10	13	14	10	12	13		5	77
No. 1	New York	Nov. 11	Geo. H. Hale, Seabright, N. J.	Light pink	Jap. Inc.	E	8	12	14	4	3		14	30	85
No. 5	"	Oct. 24	Howard Nichols, Glenview, Yonkers, N. Y.	Yellow	Japanese	C	19	11	7	12	13	12		7	81
No Name or Number	Cincinnati	Oct. 24	Paul O. Tauer, Lebanon, Ind.	Light pink	"	C	15	12	9	12	14	12		8	82
Sport of Helen Frick	"	Dec. 5	Paul Fischer, Wood Ridge, N. Y.	White	Jap. Inc.	C	18	13	8	10	12	12		7	80
" "	New York	Nov. 21	" "	"	"	C	17	13	9	14	13	12		7	85
" "	Philadelphia	Nov. 27	" "	"	"	C	18	12	9	14	13	12		7	85
Golden King	"	Oct. 26	Gustavus A. Lotze, Glen Burnie, Md.	Golden yellow	"	C	19	13	9	14	14	13		8	90
"	"	"	" "	"	"	E	9	13	14	5	4		13	27	85
Fee Orientale	Cincinnati	Oct. 16	E. G. Hill Co., Richmond, Ind.	Creamy white	Ref. Jap.	C	16	12	10	12	11	11		9	81
*Yellow Sport, J. A. Miller	New York	Oct. 29	A. Herrington, Madison, N. J.	Light yellow	Japanese	E	9	12	12	5	5		13	30	86
"	"	"	" "	Light pink shading white	Ref. Jap	E	9	13	14	4	3		13	30	86
Sport of Dr. Enguehard	New York	Nov. 17	John J. Keane, Jersey City, N. J.	Light pink	Jap. Inc.	C	17	13	9	12	10	14		9	84
Mrs. O. H. Kahn	"	Oct. 24	Chas. H. Totty, Madison, N. J.	Mahogany old gold rev	"	C	16	11	9	9	11	12		6	74
" "	"	"	" "	"	"	C	17	12	10	14	14	13		7	87
Chas. H. Totty	"	"	" "	"	"	E	9	14	15	5	5		12	25	85
Pockett's Crimson	"	"	" "	"	Japanese	E	8	13	15	4	5		13	30	88
W. R. Brock	"	Nov. 17	" "	Bright crimson & gold	"	E	10	14	13	5	4		13	30	89
"	Chicago	Nov. 7	" "	Light pink	Jap. Inc.	C	17	13	9	15	11	13		7	85
Gloria	"	Oct. 17	Elmer D. Smith & Co., Adrian, Mich.	"	"	C	16	14	9	15	10	14		8	86
"	New York	"	" "	Daybreak pink	"	C	15	14	7	15	14	10		10	85
W. H. Taft	Cincinnati	Oct. 24	" "	"	"	C	17	11	9	15	13	12		8	85
"	"	"	" "	White	"	C	18	14	10	10	13	13		10	88
"	Philadelphia	Oct. 17	" "	"	"	E	9	14	15	4	4	14		30	90
"	"	"	" "	"	"	C	18	13	9	12	12	13		9	86
Rose Pockett	Cincinnati	Oct. 24	" "	Buff Yellow	Ref. Jap.	E	9	13	14	4	4		12	30	86
Geo. W. Pook	"	"	" "	Terra cotta red	Jap. Inc.	E	9	12	13	3	3		13	32	85
Mrs. J. Boxall	"	Nov. 27	" "	Pink	"	E	9	12	12	5	5		12	30	85
*Improved Chadwick	"	"	" "	White	"	C	18	11	10	14	13	13		9	88
Mrs. W. E. Kelley	Chicago	Nov. 7	" "	Yellow	"	C	19	13	9	13	13	14		9	90
						C	18	13	9	13	12	13		9	87

Scores possible under scales used (C. S. A. Official)..... Com 20 15 10 15 15 15 .. 10 100
Ex. 10 15 15 5 5 .. 15 35 100

*The rule governing sports of existing varieties is that they must be submitted to three of the five committees, the average of the three scores to regulate title to a certificate. The varieties Improved Chadwick and Yellow sport J. A. Miller having been submitted to only one committee each are therefore not entitled to a certificate.

CHAS. W. JOHNSON, Sec'y.

in anything that pertained to the fruit business.

He was twice president of the Los Angeles board of trade, and helped place that organization on the firm basis upon which it now stands. He also served as president of the Stock and Produce exchange of Los Angeles, now the Produce exchange. In 1889 he was appointed by the governor as California commissioner to the Paris centennial exposition. He was also appointed as consul to Zurich, Switzerland, under the administration of President Cleveland.

During the past few years, he had devoted most of his time and attention to his growing interests in southern California. Besides the mammoth seed store, he was owner of the Germain building and of the Hotel Germain. Mr. Germain was born on November 30, 1847, and was 61 years old at the time of his death. He was a thirty-second degree mason, and also a Shriner and an Odd Fellow. He was at his office the week before his death, and went to the beach on a little pleasure trip on the previous Sunday. The following day he was feeling ill, and from that time on was attended by a nurse. He died very suddenly, and without the knowledge of the other occupants of the room. He leaves an estate valued at nearly $2,000,000, mostly in real estate, and his entire property lies in the west, where his fortune was built up. The funeral will be held as soon as his wife arrives from Zurich, and also his sons from the east. At present, the members of his immediate family are all east or in Europe. The business will continue along the same lines as before under the management of Fred H. Hunter who has acted in that capacity the past six years.

PACIFIC.

Charles Bramley, Sr.

Charles Bramley, Sr., one of the oldest business men of Cleveland, O., died at his home there February 17. His wife, who had been at his side through the 50 years of active business life, survives, with her nine children. Their golden wedding was to have been celebrated on Monday, February 22, 1909. Invitations had been sent to their many relatives and friends, about 500 in all, Mr. Bramley taking a great interest in all the preparations.

Mr. Bramley was an early settler in Cleveland, having lived on East Seventy-first street, his present address, since

The Late Charles Bramley.

1855. He engaged in market gardening until 1894, when he and his son, William A., started in the florist business, under the name of Chas. Bramley & Son. They started in with two small 50-foot houses and through the careful and good business qualities of deceased and his honest dealings, they gradually increased the amount of glass until at the time of his retirement they had one of the largest retail greenhouses in the city.

In May, 1908, he had a stroke of apoplexy, and has not been in as good health since, although he was always able to be about, being confined to bed only two days before he died. Mr. Bramley retired from the firm in August, 1908, his interest being purchased by the son, William, who has conducted the business since under the name of Bramley & Son. The funeral was held February 20, services at his residence. The remains were placed in a vault at Lake View cemetery. He is mourned by a host of relatives and friends. The flowers were beautiful, and many and were much appreciated by the family.

FORESTER.

George A. Dickson.

We greatly regret to learn, through the English trade papers, of the death of George A. Dickson, head of the firm of Dicksons, Chester. Death occurred at Springfield, Newton, Chester, February 6. Mr. Dickson, who was 74 years of age, occupied such a high position in the world of horticulture that he was selected as one of the first 60 to receive the Victoria medal of honor in horticulture. For a very large number of years, indeed ever since the amalgamation of the two Dickson firms into Dicksons', Ltd., he was at the head of the business. He took a great interest in civic matters, was mayor of Chester in 1886, and received the honorary freedom of the city on the occasion of the diamond jubilee celebration.

FORT THOMAS, KY.—Chris Stump, employed by Julius Ernsterhof, suffered a stroke of apoplexy at the home of the latter on Alexandria pike, February 15. He was removed to Speers hospital and died next day. The deceased was 58 years of age and leaves a widow and two adult sons.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

Advertising rates on application.

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We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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CHICAGO.—There was every prospect of the promised blizzard materializing February 24, the wind being high all day with occasional snow flurries.

IONOPSIDIUM ACAULE is a pretty dwarf flowering plant, nearly related to the wallflower. The leaves are very small, and from the axil of each springs a flower, resulting in a tuft of pale lilac. The plant is easily raised from seed, and flowers are produced in a very short time, making it a fine subject for filling up the front of borders after bulbous flowers are past. It may also be grown in pots, and flowers freely inside.

RICHMOND (Wayne County), Ind., has refused to "go dry" on a recent vote. Is it possible that Richmond plans to invite the S. A. F. soon?

"WHY cannot our florists combine like milliners and force a fashion?" asks a British trade paper referring to the lack of interest in St. Valentine's day in England.

MANURE may often be had cheaply or for nothing between seasons, and if a cemented bottom to the pile to catch the drainings is constructed it may be stored without any waste.

RIVIERA carnation growers, it is said, graft many of their plants on Gypsophila paniculata as a means of enabling the stems to resist strong sun heat as well as accidental overwatering.

N. E. HANSON, who for eight months has been traveling through Russia, Central Asia and northern Africa for the government, has returned with, it is said, a valuable collection of seeds and plants as the result of his journey.

"GOOD ROADS" is a live, economic topic and its importance is freely acknowledged. Why do not growers and nurserymen note the importance of keeping the roads and walks about their places in such order that visitors are attracted rather than repelled?

STEAM turned into a propagating box or bench, or into the beds where crops are to be planted before the soil is put in, forms a very simple yet effective method of sterilization that can be used by all who have a steam heating plant or power with practically no expense.

MILD spells during winter, such as we are now passing through in the middle west with no sun, and a heavy, moist atmosphere, cause a soft, unsatisfactory growth in indoor stock. Full air on and a little heat in the pipes to keep the atmosphere moving is the best treatment. Close houses make matters worse.

Yield From Roses and Carnations.

ED. AMERICAN FLORIST:—

I see you quote me as having said that the yield from roses is $1 per square foot ground area, and for carnations 50 cents per square foot. You must have misunderstood my statement. What I said was that the yield from roses was $1 per plant, not square foot, and from carnations, 50 cents per plant. This figures out practically 50 cents per square foot of area, giving about the same return for roses as for carnations, as two carnations to one rose are benched in the same space; for instance, a house that will hold 8,000 roses will contain 16,000 carnations, making the returns from same about $8,000 for approximately 16,000 square feet, making it 50 cents per plant for carnations and $1 per plant for roses. As your note may mislead, I correct it.

F. R. PIERSON.

The American Rose Society.

The atmosphere having been cleared of the carnation by the precipitation which took place at Cincinnati, the queen of flowers now occupies the center of the stage, and we look forward to a record breaking display at Buffalo on St. Patrick's day. The broadening out of the exhibition, as indicated by the premium list, should insure a most varied and attractive display and one worth a long journey to see. Are our nurserymen awake to the many advantages offered by such gatherings? Here is an excellent opportunity for the display that will be given careful examination by men who are large buyers of stock, and who are ready and anxious to take hold of a good thing. It is to be hoped that growers of pot grown plants of the older as well as of the newer varieties of roses will come to the front. The many new candidates for public favor in the way of forcing roses should be well represented, and a suitable display of well grown flowers should prove a liberal education to many of us.

And then think of the names! It has long been the fashion to felicitate botanists on the jaw-breaking names employed by them, but they evidently have no monopoly, as witness: "Tausendschon" "Sneewitchen" or even "Magna-frano" and others which are beyond the capacity of my typewriter. Bring them on—names and all, and let us have a big show. The meeting rooms are most attractive and the local members of the society will do all in their power to make everything agreeable.

JOHN F. COWELL.

Seedling Roses.

ED. AMERICAN FLORIST:—

In regard to "J. R. G.'s" query in the issue of January 30, page 15, asking if seedling roses have ever been grown in New Orleans, would say that many have been grown here. I have grown quite a few worthy ones but for some reason or other have never disseminated them. Teas, hybrid teas, Bourbon and noisette, they would all, as far as I can remember, bloom the first season, in fact, when quite small; three or four inches in many individuals. "J. R. G." does not state to what class his seedlings belong. If in any of the above classes I would do as E. G. Hill says—bud them using any of the Lady Banks stocks as an experience of many years has proven this to be the only one for this immediate section.

RICHARD ORY.

Plants for Mississippi.

ED. AMERICAN FLORIST:—

Please state what flowers, other than roses and carnations, can be grown outdoors along the Mississippi coast to afford commercial cut flowers. Please give such a selection as will cover the entire season.

X. Y. Z.

Pansies, violets, jonquils, daffodils, narcissus, hyacinths, tulips, Cape jasmine, gladioli, tuberoses, dahlias and chrysanthemums.

D. C. M.

Meetings Next Week.

Boston, Mass., March 6, 11 a. m.—Massachusetts Horticultural Society, Horticultural Hall, 300 Massachusetts avenue. Paper on "The Propagation of Plants," by Jackson Dawson, Jamaica Plain, Mass.

Buffalo, N. Y., March 2, 8 p. m.—Buffalo Florists' Club, Saturn hall.

Chicago, March 4, 8 p. m.—Chicago Florists' Club, Union restaurant, 111 Randolph street.

Dayton, O., March 1, 8 p. m.—Dayton Florists' Club, 37 E. Fifth street.

Detroit, Mich., March 1, 8 p. m.—Detroit Florists' Club, Cowie building. Paper on "Of What Benefit are the Florists' Clubs to the Business," by Jas. Taylor.

Grand Rapids, Mich., March 1.—Grand Rapids Florists' and Gardeners' Club. Board of Trade rooms.

Indianapolis, Ind., March 2, 7:30 p. m.—State Florists' Association of Indiana, State house.

Lake Geneva, Wis., March 6, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Louisville, Ky., March 2, 8 p. m.—The Kentucky Society of Florists.

Milwaukee, Wis., March 4, 8 p. m.—Milwaukee Florists' Club, Quiet House, corner of Broadway and Mason streets.

Montreal, Que., March 1.—Montreal Gardeners' and Florists' Club, Royal Guardians building, 211 Sherbrooke street, West. Paper on "The Chemistry of the Garden," by Dr. Snell, MacDonald college.

New Orleans, La., March 3.—German Gardeners' Club, 624 Common street.

Newport, R. I., March 3.—Newport Horticultural Society.

Pasadena, Calif., March 5, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Pittsburg, Pa., March 2, 8 p. m.—Pittsburg and Allegheny Florists' and Gardeners' Club, 422 Sixth avenue.

Salt Lake City, Utah, March 2, 8 p. m.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

San Francisco, Calif., March 6.—Pacific Coast Horticultural Society.

Seattle Wash. March 2.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.

Utica, N. Y., March 4, 8 p. m.—Utica Florists' Club, Hotel Martin.

Washington, D. C., March 2, 8 p. m.—Florists' Club of Washington, 1214 F street, N. W.

Worcester, Mass., March 4.—Worcester County Horticultural Society. Paper on "Rambles in the West," by Chas. W. Wood.

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibition, le Jardin des Tuileries, Paris, France, Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine, France.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—In a greenhouse where I can learn the florist trade; young man, 19; Iowa or Illinois preferred. Address
Key 792, care American Florist.

Situation Wanted—By a single man, 32 years old, 15 years' experience, to take charge of small place; can grow roses, carnations and pot plants; state wages. Address
Key 778, care American Florist.

Situation Wanted—As assistant on first-class commercial or private place; single aged 23; eight years' experience; best of references; near Chicago preferred. Address
Key 791 care American Florist.

Situation Wanted—As gardener; have had 13 years' experience in the large gardens of Germany Russia, Belgium, Asia, Holland and Turkey and can give references. Address
Key 782, care American Florist.

Situation Wanted—A young all-'round general greenhouse man, with 8 years' experience wishes a position near Chigago; ready for engagement on the 5th of March; state wages in first letter.
Key 785, care American Florist.

Situation Wanted—By an experienced florist and gardener on or before April first; private or commercial; private preferred; best of references; please state salary in first letter.
Key 800, care American Florist.

Situation Wanted—By a young man of 19 with experience in greenhouse a helper; near Philadelphia or New York preferred. Address
CHAS. DUMKE, JR.,
Manahawkin, Ocean Co., N. J.

Situation Wanted—A young all around general greenhouse man wishes a position near Chicago; eight years' experience; ready for engagement the 5th of March; state wages first letter.
J. HANLON, Highland Park P. O., Mich.
in care of T. Gowanlock, R. F. D.

Situation Wanted—As working foreman or grower; thoroughly understands growing roses, carnations, 'mums, bulbs and a general line of pot plants; life experience in all branches of the business; middle age, single; good references given. Address Key 794 care American Florist.

Situation Wanted—By first-class man for private place near Chicago; understands the growing of carnations roses, chrysanthemums, violets etc; no objection to commercial place; 13 years' experience in first-class places (English). Please state full particulars. Address
Key 761, care American Florist.

Situation Wanted—By thoroughly experienced gardener, to take charge of gentleman's place; 20 years' experience in all branches, including landscaping, vegetables, fruits and the growing of cut flowers and a general line of pot plants, outdoors and under glass; best references; age 36; married. Key 793, care American Florist.

Situation Wanted—Working foreman and manager German single hustler and steady; 22 years practical experience both eastern and western in roses, carnations, 'mums, fancy pot and bedding plants, palms, ferns, designing landscape and all odds and ends for a first-class retail store; first-class references; please state wages and full particulars. Key 798, care American Florist.

Help Wanted—Gardener, one familiar with orchids preferred. Address
Key 797, care American Florist.

Help Wanted—A gardener for out door work, single, sober and a good worker. Address
Key 786, care American Florist.

Help Wanted—An experienced first-class gardener, to take charge of a country estate, give name and address of last employer.
Key 802, care American Florist.

Help Wanted—A married man (preferred) sober honest and industrious with some knowledge of greenhouse work; state age, experience and wages wanted. GOSHEN FLORAL CO., Goshen, Ind.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to
WRIGHT'S FLOWER SHOP,
224 W 4th St., Los Angeles, Calif.

Help Wanted—First-class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references.
Key 747, care American Florist.

Help Wanted—A good designer and decorator; must be experienced and able to give references from past employers and be sober and industrious. None other need apply. Address
Key 795, care American Florist.

Help Wanted—Energetic man as working foreman for landscape work; must be experienced in hardy plants, grading, pruning, etc., and capable of handling men to best advantage; state references and salary required. Address
Key 788, care American Florist.

Wanted to Lease—With privelege of buying, small range of greenhouses in good repair; Indiana or Ohio. Address
Key 787, care American Florist.

For Sale—Greenhouse property, 12,000 feet of glass one large 9 room house, one 6 room house, large barn, 6 acres of good land; established 36 years; good business; situated in Mass.; $4,000 cash. Key 801, care American Florist.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser.
Key 799, care American Florist.

For Sale—Greenhouses in good condition 3 houses 17x70 a good 10 room house good sized barn 1 acre of the best carnation soil, population 4,000 no competition, steam heat city water in city limits a fine chance for some one. Address,
A. RICHTER, Sturgis, Mich.

For Sale—Three houses, 100 ft., Moninger; three houses 75 ft., Deitsch, open; three houses, 34 ft., Deitsch, open; 1 house, 36 ft., closed. Eight-room residence adjoining plant; boiler and coal bins in basement. House and plant all piped and heated by steam. Store, 18x20; ice boxes, cash register, counters and other fixtures. Barn, 18x24. This plant is situated on corner lots, 150x150. Planting ground, 75x100. Located in an excellent city on the east coast of Lake Michigan, and plant is centrally located near churches and business district and in residence section. The store combines the plant, adjoining the same. For particu'ars address
Key 790, care American Florist.

TO LEASE.

Established florists' business in a thriving southern city; 60,000 ft. of glass sale for everything you can grow, house well stocked with roses, carnations, lilaes, orchids, ferns, palms, etc., which will be sold at a reasonable figure; large plot now under cultivation suitable for truck gardening, also six-room dwelling adjoining same; best of reasons for wishing to lease at a low price. Address
Key 773, care American Florist.

WANTED

Position as head gardener or superintendent, by thoroughly practical, active, energetic man; up to date in growing plants, flowers and vegetables under glass; ornamental planting care of trees, shrubs and hardy plants, and the developement and improvement of public and private grounds; Scotchman, 48 years of age, married, no children; please state salary and other particulars in first letter. Address **A. B., care American Florist, 1133 Broadway, New York.**

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

For Sale.

One second hand Hot Water boiler capable of heating 3,500 ft. 4-in. pipe.

Superior Machine & Boiler Works,
125-133 W. Superior St., CHICAGO, ILL.

For Sale.

Old established retail business, well appointed store in first-class neighborhood; greenhouse attached. Bargain if taken at once.

Key 796, care American Florist.

FOR SALE.

Well Established Retail Store.

Good location in one of Chicago's busiest thoroughfares (west side). Stock, good will and fixtures at a low price to quick purchaser. Owner leaving town. Address
Key 803, care American Florist.

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,
125-133 W. Superior St. CHICAGO, ILL.

Advertisements should be mailed so as to reach us not later than **Tuesday** of the week in which they are intended to appear.

San Francisco.

BUSINESS BETTER.

Since last writing, trade has been improving some, as there have been quite a few social events. Some of these affairs called for very elaborate decorations. As flowers are quite plentiful, prices are low for most kinds of stock. The show windows of the stores are all bright with yellow narcissi, which are being brought in, in enormous quantities and can be bought at very low prices. Tulips, Dutch hyacinths and other bulbous flowers also help to make the windows look gay. The continuous rainy weather is keeping back wild flowers and the early fruit blossoms, but as soon as we have a few warm days, these will be coming in and make the hearts of our numerous lady decorators glad, as they will then have plenty of choice flowers for their artistic work. The condition of the weather has been anything but favorable to business, for since January 1 it has been raining almost every day. A great deal of valley land is under water and it will be impossible for the farmers to put in a crop this season. Of course the greater part of the state is being benefitted by the bountiful rain as a wet winter always insures a large crop.

NOTES.

John McLaren, superintendent of the Golden Gate park, presented the society with a handsome volume entitled, "Gardening in California," of which he is the author. This book is filling a long felt want in California, as it is dealing entirely with conditions popular to our climate, etc., and nothing like it has ever been published before. Its simplicity and brevity make it easily understood by amateur as well as profesional gardeners. It has been well received and is finding a large sale, although it has been out only a few weeks.

The Pacific Coast Horticultural Society held its monthly meeting last Saturday. Although it had been raining all day, quite a number of the members were present. Quite a warm discussion resulted in regard to holding a spring or fall flower show. It was decided to hold a fall show and a committee was appointed to take immediate steps towards getting out premium lists and do other preliminary work. Dan McRorie, formerly of South Orange, N. J., was initiated a new member.

The Los Gatos board of trade will hold a great floral carnival at Los Gatos on May 1 which is to surpass anything ever held in this state. There will also be a flower show in connection with this, at which attractive prizes will be offered, to induce the growers, and private gardeners to do their best.

Julius Eppstein has one of the finest hotel flower stands in the country. It is in the St. Francis hotel annex and no money has been spared in making it harmonize with the rest of this beautiful hotel. P. G. Murray, formerly of Los Angeles, is in charge of this stand.

The Eureka Floral Co., 4092 Eighteenth street, has closed its doors. The former manager, F. H. Forrest, together with G. D. Munroe have established themselves as floral decorators at 271 Eureka street.

Henry Maier, superintendent of the Stockdale Nursery and Wm. E. Tevis' estate at Burlingame, is very busy with landscape work in San Mateo and vicinity.

A retail store has been opened at 508 Valencia street by Messrs. Firenzi, Parodi and Lombardi, under the name of the Valencia Floral Co.

J. Beatty, who has had charge of D. O. Mills' estate at Millbrae for the last 10 years has left—Maclane of San Mateo is in charge now.

The Art Floral Co., 792 Van Ness avenue, will move down-town March 1 and will be located in a new building, 239 Post street.

The Sutter Street Floral Co., Joe Goldstone, manager, has gone out of business. P.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000. 7.50
Boxwood.....35c per bunch: 50 lbs.. 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Davenport, Ia.

The monthly meeting of the Tri-City Florists' Club was held at the home of Henry Gaethje, Sr., South Rock Island, Ill., on the evening of February 11, a goodly number of members being in attendance. President Wm. Kness presided The subject for the evening's discussion was, "Does it Pay the Average Florist to Invest in the New Varieties of Carnations and Roses the Year they are Introduced." All members were of the opinion that it does not pay. The banquet committee reported that the date set for the annual banquet was March 25, the place, Outing club this city, and that the wives and sweethearts be invited to attend. A dance and entertainment is to follow the banquet. The report was accepted and committee given power to proceed with arrangements. The nominating committee announced the following nominations of officers, the election to take place at the next regular meeting to be held March 18: Emil O. Boehm of Davenport, for president; John Staack, Moline, vice-president; Henry Meyer, Rock Island, vice-president; Henry Pauli, Davenport, vice-president; Wm. Knees, Moline, treasurer; John Temple, Davenport, secretary; Theo. Ewoldt, Davenport, financial secretary; executive committee, A. Anderson, Moline, Ludwig Stapp, Rock Island.

After adjournment, the club was invited into the dining room where a fine luncheon was in waiting, after which a social hour was enjoyed. Mr. Gaethje favored the club with a vocal solo, and Henry Meyer entertained with selections on the piano.

A communication from Adolph Arp, formerly superintendent of the parks, and subsequently with the Davenport Nursery Co., was received at the meeting. Mr. Arp is now superintendent of parks at Meridian, Miss. He has been there for about four months, and his family will follow in the near future. Mr. Arp sent in his resignation to the Tri-City Florists' Club which was not accepted, he being elected an honorary member of the club.

On account of the military ball to be given by the military rank of Odd Fellows in Moline, March 11, the next meeting of the club will be held on March 18. A large number of the florists are members of the I. O. O. F. T. E.

LISBON FALLS, ME.—H. W. Blethem is making improvements at his greenhouse.

Galax, Ferns, Etc.

New crop, fresh from the patch, prices as follows:

Bronze and Green Galax Leaves	$0.50 per 1000
Fancy and Dagger Ferns	1.00 per 1000
Green Leucothoe Sprays	2 50 per 1000
Bronze Leucothoe Sprays	4 00 per 1000
Rhododendron Sprays	2.00 per 1000
Mountain Laurel	2.00 per 1000

Discount on large orders. Fifteen years experience enables me to guarantee perfect satisfaction 250 customers now in U. S. Send cash with first order.

J. A. PRITCHARD, Elk Park, N. C.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,

EVERGREEN, ALA.

SOUTHERN WILD SMILAX

Give me your orders, will save you money.
Write or wire for prices,
Satisfaction Guaranteed.

Harrison & Pinkston,

LOUISVILLE, ALA.

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns. Bronze and Green Galax.

Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., **NEW YORK**

PASADENA, CALIF.—The Gardener's Association has selected April 1, 2 and 3 as the dates for the annual spring flower show. Judging from the abundance of rain and the luxurious growth of all plants and flowers, the show will equal the fall exhibition, which was the best held in the city. It is probable the site on Green street, between Fair Oaks and Raymond avenue, will be the scene of the exhibition.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75
	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	4 00
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00
ROSES, Our Selection, $5.00 per 100	
Carnations,	Per 100
Fancy	$ 3 00
Good	$ 1 50 to 2 00

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

St. Louis.

DEMAND GOOD.

The past week has been a profitable one to the growers. There has been a good demand which has at times caused a shortage. Carnations are quoted at 3-4 cents and are cleaned out daily. Roses are quoted at 4-10 cents and there are but few left over. Sweet peas are arriving more freely and are improving in quality. American Beauty roses are scarce and many of the short stemmed flowers arrive but are old and of very poor color. Violets are cheaper. There has been a good demand for Asparagus plumosus. A. Sprengeri and smilax Wild smilax has been extensively used in decorations. In the windows are shown jonquils, tulips and other bulbous flowers in pots and boxes.

NOTES.

Miss Alice Scott, for 17 years with Young & Sons, ribbon buyer and one of the chief clerks had to resign her position on account of nervous prostration and has gone to Pass Christian, Miss., for a rest of a few months. She will spend the summer at Atlantic City, N. J.

Ostertag Bros. had the decorations at the Coliseum during the automobile show week. Henry Ostertag held a cheque of $43.50 from M. D. Fortner, real estate agent, who is wanted here in connection with the forgery of a cheque for $12,500 on which he raised $11,600 in cash.

Professor Wm. Trelease addressed the chamber of commerce of Springfield, Ill., at a banquet given by that body to the State Academy of Science on the world's traffic in plants and their products.

Hugo Gross, one of our more successful violet growers, is now bringing in some very fine fancy sweet peas. Mr. Gross seems to have solved the soil problem.

It is expected that the Louisiana Purchase Co. will erect a monster statue of Jefferson on the site of the government building at the world's fair grounds.

W. F.

Buffalo Cut Flower Co.

WHOLESALE FLORIST,

Give Us a Trial.

495 Washington Street,

BUFFALO, N. Y.

Long Distance Phones:
Bell Seneca 3772. Frontier 3607.

Wholesale Flower Markets

ST. LOUIS, Feb. 24.

Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 2 50
" " short stems	50@ 1 00
" Bride, Bridesmaid	5 00@10 00
" Chatenay	6 00@12 50
" Ivory	6 00@10 00
" Killarney	6 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	8 00@10 00
" Richmond	6 00@12 50
" Alice Roosevelt	6 00@10 00
Carnations, common	2 00@ 2 50
" fancy	3 00@ 4 00
Freesia	1 50@ 2 00
Hyacinths Romans	1 50@ 2 00
Lily of the Valley	3 00
Violets	30@ 40
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $1 75	
Smilax	12 50

CINCINNATI, Feb. 24.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Hyacinths, Roman	2 00@ 3 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Tulips	4 00@ 5 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Feb. 24.

Roses, Beauty, special	6 50
" " fancy	4 00
" " shorter	2 00@ 3 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@15 00
Carnations	2 00@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 4 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00

MILWAUKEE, Feb. 24.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	1 50@ 4 00
Daffodills	2 00@ 3 00
Hyacinths, Roman	2 00
Lilium Giganteum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch, 25	35
" Sprengeri, " "	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz.	1 50

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Who esale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

—THE—

J. M. McCullough's Sons Co.

Wholesale Commission Florists.

CONSIGNMENTS SOLICITED.

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones. ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

BUFFALO, N. Y.—Superintendent John F. Cowell has a splendid collection of hippeastrums now in flower that will last until about Easter.

White Lilac Large supply, quality fine; $1.25 per bunch. 5 bu. for $6.00
Killarney Fine quality. Superior to any in Chicago.
Violets In good supply, both double and single.
BULB STOCK in good supply. We can meet your wants. And all other CUT FLOWERS and GREENS. Best that can be grown and packed with care.
Send for Our Catalogue of Florists', Growers' and Nurserymen's Supplies.
A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

MARDI GRAS HELPED TRADE.

Last week was Mardi Gras week, and as usual New Orleans was the principal center toward which the wholesale cut flower dealers turned their eyes, but there was also a very strong demand from all other southern points, notably Birmingham and Montgomery in Alabama, and Dallas, Austin, etc., in Texas. In addition to this there was in many northern states an aftermath of the Lincoln centennial celebration as well as the usual demand for Washington's birthday which coming on Monday of this week created a better Friday and Saturday shipping trade than usual. At the same time there was a larger supply of stock on hand than had been the case for some weeks previous and no very notable shortages developed. American Beauty roses are coming in more freely and these roses are now in good supply. Bride and Bridesmaid are of excellent quality. Beginning with Tuesday of the present week, prices dropped considerably, varying from 10 to 15 per cent from those of Mardi Gras week. Good carnations also are plentiful and prices easier. Bulbous flowers are coming in great quantities with a falling market to be reckoned with. Violets last week were considered good property, but the supply was large enough to keep prices from going up much. Sweet peas also sold well the quality being unusually excellent this season with flowers and stems surpassing anything previously seen on this market.

ERNEST OECHSLIN SHOT.

On Sunday morning at 10 o'clock, Ernest Oechslin, of Oak Park, was shot through the right lung by the accidental discharge of a gun in the hands of his nephew with whom he was talking at the time. A hasty examination showed the serious character of the wound and the stricken man was hurried to the Oak Park hospital where a more thorough examination was made and the bullet located by means of the X-rays. Mr. Oechslin is very low, but it is hoped that he will rally sufficiently to allow the bullet to be extracted. An improvement in his condition was noted on Wednesday.

NOTES.

C. S. Griffith, 160 North avenue, had a very effective red, white and blue window for Washington's birthday. A large wreath of red carnations formed the background, with a vase of red carnations in the foreground bearing two American flags, contrasting well with hyacinths, lily of the valley, tulip, etc., for white and purple lilac, purple hyacinths and violets suggesting the blue. The window proved a great attraction for a great number of north siders.

Adolph E. Benesh, of Winterson's Seed Store was married on Monday last at 9 a. m. In the evening at his home, 486 West Eighteenth street, a reception was given attended by several of the local trade.

Ernst Wienhoeber and H. N. Bruns leave this week, Thursday, for the east, intending to visit Cincinnati, Pittsburg, New York and other floricultural centers. They intend to be gone about 10 days.

The Kennicott Bros. Co. were showing some of the finest White Lawson carnations we have seen on this market.

Chas. W. McKellar
51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty
Fancy Stock in **Violets, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**
Send for Complete Catalogue.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
My plan for saving you money in your buying would interest you. If you are a buyer of cut flowers let me hear from you,
21 Wabash Avenue, CHICAGO.

E. E. Pieser says business has kept up unusually well so far this season.

Sinner Bros. are now cutting fine Bride and Bridesmaid roses, also an excellent line of carnations including Enchantress, White Enchantress, Victory and Lawson.

Elsewhere in this issue we show an illustration of Enchantress carnations showing the thrifty condition of carnation plants growing in Wittbold cement benches.

F. R. Hills, who moved to California about a year ago on account of his wife's poor health, is making a determined effort to sell his Maywood home and greenhouses.

The E. F. Winterson Co. is showing Fritz Bahr's new carnation, Lucille, one of the finest novelties of this season's introduction.

Bassett & Washburn are still cutting heavily of Formosa lilies. C. L. Washburn will celebrate his fifty-first birthday February 27.

The J. B. Deamud Co. will celebrate on March 1 the third anniversary of that firm's incorporation.

Some of the finest sweet peas seen on this market were shown at E. C. Amling's this week.

Weiland & Risch are showing a strong line of Bride, Bridesmaid, Richmond and Killarney roses.

Fine American Beauty roses are a strong feature with Geo. Reinberg.

Visitors: W. H. Siebrecht and —— Struck, New York; Harry Fisher, Kalamazoo, Mich.; Thos. F. Brown, Greenfield, Mich.; —— Poague, of Courtland & Poague, Cincinnati, O.; W. S. Hizer, Rockford; J. M. Cole, Peoria.

PETER REINBERG,
35 Randolph Street, CHICAGO.
Phone Central 2846.
Largest Grower in the world.....
Will Take Best Care of Every Order.
1,800,000 Feet of Glass.

PRICE LIST:

Carnations $2.00 to $3.00 per 100

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$6 00
36-inch stems	5 00
30-inch stems	4 00
24-inch stems	3 00
20-inch stems	2 50
15-inch stems	2 00
12-inch stems	1 50
Short stems	1 00

	Per 100
MRS. MARSHALL FIELD	
Extra select	$10 00 to $12 00
Medium	5 00 to 8 00
RICHMOND and KILLARNEY	
Select	10 00 to 12 00
Medium	5 00 to 8 00
GOLDEN GATE	4 00 to
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and BRIDESMAID	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
VIOLETS	1 00
ADIANTUM	1 00 to 1 50
ASPARAGUS	75c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

WEILAND & RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

E. F. Winterson Co.

45-47-49 Wabash Ave, CHICAGO.
Long Distance Phone, Central 6004.

Wholesale Cut Flowers and Florists' Supplies

All cut flowers in season at Chicago market quotations

Write for our NEW SUPPLY CATALOGUE. It will interest you.

Consignments of CUT FLOWERS Solicited.

"THE BUSIEST HOUSE IN CHICAGO"

Roses, Carnations,

And All Seasonable Flowers in Quantity.

J. B. Deamud Co.
51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO. Feb. 24.

Roses, Beauty, extra select		6 00
" " 36 in		5 00
" " 30 in		4 00
" " 20 to 24 in	2 50@	3 00
" " 15 to 18 in	1 50@	2 00
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select		10 00@12 00
" " " medium		6 00@ 8 00
" Chatenay, select		10 00@12 00
" " medium		6 00@ 8 00
" Golden Gate, Uncle John		6 00@10 00
" Kate Moulton		6 00@15 00
" Killarney, select		12 00@15 00
" " medium		8 00@10 00
" Mrs. Marshall Field, select		12 00@15 00
" " " medium		6 00@10 00
" Perle		6 00@12 00
" Richmond, extra select		12 00@15 00
" " medium		8 00@10 00
" " short		6 00
Carnations		2 00@ 4 00
Callas per doz.		2 00@2 50
Cattleyas ($9.00 per doz.)		60 00@75 00
Daisies		50@ 2 00
Freesias		3 00@ 5 00
Gardenias per doz		6 00
Hyacinths, Roman		3 00@ 4 00
Lilium Harrisii per doz.		2 00 15 00
Lily of the Valley		3 00@ 4 00
Narcissus, Paper White		4 00
Pansies		1 50@ 2 00
Stevia		1 00@ 2 00
Sweet Peas		75@ 1 50
Tulips		3 00@ 4 00
Violets, single		75@ 1 50
" double		75@ 1 50
Adiantum		75@ 1 00
Asparagus Plum. strings, each		50
" sprays		2 00@ 4 00
" Sprengeri		2 00@ 4 00
Boxwood per bunch		35
Ferns, fancy per 1000		2 00
Galax, green, per 100	15; per 1000	1 00
" bronze, per 100	15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax, Wild per 50 lb. case		5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

New York.

TRADE FAIR.

The business of the past week was very fair. There was an increasing supply of all stocks, but as a rule everything cleaned up fairly well. American Beauty roses are more plentiful and specials were down to 60 cents, the last of the week. Tea roses are also in greater supply with lowering prices. The same may be said of carnations. However, as previously stated, there is no glut and conditions are more encouraging than they have been for some time. It is probable that the nearest approach to a surplus is in yellow narcissi, which are now very plentiful, with no extraordinary demand. In fact, the demand, so far as the flower-buying public is concerned, is not at all heavy; the saving clause has been a very moderate supply of stock, which prevented the demoralization of prices.

February 22.—The fact of this being a holiday seems to have a depressing effect on the market. There is a plentiful supply of stock but it moves slowly. Many persons left the city on Saturday to remain away until tonight, this being shown by a falling off in Saturday's trade. The weather is clear and mild and the feeling is that good prices have gone glimmering until Easter.

NOTES.

Henry Pritchard and wife of Bartow street, Astoria, L. I., celebrated the forty-fourth anniversary of their marriage on February 14, St. Valentine's day. There was a very large gathering of relatives and friends at their Astoria home, noteworthy being 23 grandchildren. Everything was abundantly provided to make the celebration an enjoyable event. Both Mr. and Mrs. Pritchard are 64 years old but healthy and rugged and we hope they may enjoy many more years of connubial bliss. Mr. Pritchard is one of the oldest growers of the Long Island section of this city, coming here from England in 1875. He is well known to all who frequent the New York Cut Flower Exchange. A son, Arthur, is manager for the retail firm of Christatos & Koster, 706 Madison avenue.

The dinner committee of the Florists' Club is predicting that the annual dinner at Shanley's February 27, will be a record-breaking event in club dinners. An attendance of over 200 persons is expected. It is said that the Boston flower show will claim a few enthusiasts while others will attend the dinner and take the midnight train for Boston. President Hallock's reception will be a most interesting feature of the programme. Several business concerns have made very liberal purchases of tickets and the menu is one of Shanley's finest productions and altogether, it is bound to be a rousing time.

Reed & Keller's latest introductions are a bouquet holder and a Florentine pot-cover. The bouquet holder is of white satin, on a wire frame, made to conform to the shape of the bouquet, the satin having a border of white lace. It is a convenient and handsome arrangement. The pot-cover, a neat and ornamental affair, is a combination of wood and paper, being both light and strong. It is a decided innovation and will doubtless become popular.

Carl Jurgens of Newport, R. I., sailed on February 19 for a tour of Europe. He is expected to be absent several months and will visit all the principal points of interest. While in this city he called on his old friends John Young and John I. Raynor.

J. G. Leikens has been very busy this month with wedding decorations, having had five during the first half of the month. He has also had a large number of dinner decorations, of which he makes a specialty.

A new retail concern, named the Waldorf Floral Co., has opened a store at 15 East Thirty-fourth street. Chas. Willon, formerly with M. A. Bowe, is manager.

The sympathy of the trade is extended to Patrick Devie, buyer for W. P. Sears, 729 Sixth avenue, whose wife died suddenly a short time ago.

Chas. A. Small, who spent the greater part of last week in Washington, D. C., called there by the death of his father, has returned home.

Patrick Welch of Boston, Mass., came over on February 23 to look into various horticultural matters in which he is interested.

Visitors: L. E. Wood of Wood Bros., Fishkill; Carl Jurgens, Newport, R. I.

Buffalo.

TRADE VARIABLE.

Trade conditions are variable and stock plentiful, especially in bulbous flowers. Weddings and receptions have not been plentiful, possibly owing to the close proximity of Lent when society has to quiet down. S. A. Anderson had a decoration for a quiet home wedding last week which was about as good as could be had and all work done by the family. Palms, lilies, lilac, Bon Silene and Killarney roses and lily of the valley by the hundred were finely arranged as well as many good plants.

J. Benson and Fred. H. Stafford, both formerly with W. J. Palmer and the former for the past two years with Stumpp of New York, have leased a store on upper Main street and we trust they will have every success in their new venture; both are popular and should succeed.

Don't forget that the Rose Society meets in this city next month.

Visitors: R. J. Irwin of Skidelsky & Irwin, Philadelphia, Pa.; Henry Bunyard of New York. BISON.

Baltimore.

TRADE GOOD.

A great variety of weather has been the portion of this territory lately, conditions not propitious for first class flowers. Trade continues fairly active, carnations being more plentiful, except white, which are still somewhat shy of supply. Roses are not abundant and not extra as to quality. Violets are a glut, and sweet peas were almost as abundant. The first southern jonquils are coming in, and as soon as shipments make their usual proportions home-grown stock will be unfavorably affected. The beginning of the Lenten season will diminish the requirements for social uses of flowers and decorations, but the usual succession of small affairs, receptions, teas, etc., will probably keep business about on a level. On the night of February 22, there was a ball of the Fifth regiment of the Maryland national guard at its armory, the decorations being by E. A. Seidewitz, and the final Tuesday german took place, Black Bros. furnishing the decorations therefor.

GARDENERS' CLUB.

At the carnation show on Monday night of the Gardeners' Club there was some very fine stock exhibited. M. Thau had a red seedling, C. Akehurst & Son had several varieties of their own origination, whites, pinks and yellow. H. Weber & Sons Co. sent some fine examples of Toreador, Isaac H. Moss showed White Enchantress and Beacon; Fred C. Bauer showed Splendor in good shape; John M. Rider staged White Enchantress and Rose Pink Enchantress, also Genevieve Lord, all in splendid condition. B. G. Merritt several well-grown standard sorts. Lehr Bros. exhibited Rose Pink Enchantress and Enchantress. Altogether the display was an excellent one and was much praised.

NOTES.

During a recent wind storm the place of the Richard Vincent, Jr. & Sons Co. at Chase, was struck by a heavy gust and much damage done to the office building and some of the greenhouses. The former structure was turned on the foundation wall, so great was the force of the tornado, and much glass was broken in the plant houses.

Walter S. Holloway & Son have taken over the premises formerly carried on by W. O. Stran, on the Old York road, and will carry on a general florist business, making a specialty of Easter plants, etc.

Mrs. Schuler Thomas, who was very ill for several weeks, is reported now to be improving, with every hope of her complete recovery.

A new concern has begun business at Towson—L. H. A. Klein, with several houses planted to carnations, Henry Bauer being in charge.

John Cook is confined to his bed at his home on Edmonston avenue owing to a severe attack of rheumatism.

S. B.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At New York.

BOWLING FEBRUARY 22.

Scott	133	116	135
J. Mander	132	131	186
Zangen		148	158
Donaldson	143	143	142
Schroiner	186	143	144
Shaw	122	114	168
Fenrich		155	142
Henshaw		133	118
W. C. Rickards		151	114

Though the date for the initial meet of the reorganized team was set on a holiday, there was a good attendance and much interest manifested.

At Louisville.

The Florists' bowling club rolled three very interesting games Monday night, Capt. Doerr's team defeating Capt. Walker's three straights. Following are the scores:

	1st.	2nd.	3rd.
James Doerr	142	165	157
Fred L. Schulz	143	109	102
Jos. Wettle	114	128	128
Louis Kirch	180	152	171
Karl Rabe	153	114	115
Total	732	668	673
Wm. G. Walker	146	143	146
Geo. E. Schulz	165	137	133
Andy Brand	113	145	143
Jacob Schulz	104	95	148
Robt. Miller	93	117	70
Total	621	637	640

Louis Kirch was high with 180 and Robt. Miller was low with 70.

F. L. S.

Tri-City Bowling Match.

AT WASHINGTON.

The following scores were made, at the tri-city games between Philadelphia, Baltimore and Washington; the first series was played at the capital city:

GRAND TOTAL THREE GAMES.

Washington	2472
Philadelphia	2257
Baltimore	2390

High scores were rolled by Seybold of Baltimore, 584, three games; Fields of Washington, 577, three games; Robertson of Philadelphia, 482, three games.

AT BALTIMORE.

Washington	2703
Philadelphia	2561
Baltimore	2547

High scores made by Seybold, Baltimore, 651, three games; Hamner, Washington, 574, three games; Dodd, Philadelphia, 570, three games.

LADIES GRAND TOTAL FOUR GAMES.

Mrs. Boone, 378 (high score, Baltimore); Mrs. Baiter, 377; Mrs. Perry, 274; Mrs. Seybold, 174; Mrs. Klutch, 161; Mrs. Van Every, 235; Miss Elsie, 317; Mrs. Cooke, 375; Mrs. Supper, 207; Mrs Medomanksie, 372; Mrs. Shaffer, 495 (high score Washington).

Prizes were awarded to the ladies bowling the high score. G. S.

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Wholesale Florists,

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Wholesale Flower Markets

NEW YORK, Feb. 24.

	Per 100
Roses, Beauty, special	50 00@60 00
" " fancy	35 00@40 00
" " extra	25 00@30 00
" " No. 1	15 00@20 00
" " No. 2	5 00@ 6 00
" " No. 3	2 00
" Bride, Bridesmaid, extra and special	8 00@10 00
" No. 1	4 00@ 6 00
" No. 2	2 00
" Killarney, special	12 00@20 00
" extra	6 00@ 8 00
" Richmond	2 00@20 00
Carnations fancy and special	4 00@ 5 00
" common	1 50@ 2 00
Callas, per doz.	75@ 1 25
Cattleyas	30 00@50 00
Freesias	50@ 1 00
Gardenias, per doz.	1 00@ 5 00
Hyacinths	50@ 2 00
Lilac, Cut, per bunch	75@ 1 25
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	1 50@ 2 50
Mignonette, per doz.	50@ 75
Narcissus (Paper White)	2 00@ 2 50
" (Yellow)	1 50@ 2 00
Sweet Peas, per doz bunches	1 00@ 1 50
Tulips	1 00@ 2 00
Violets	35@ 75
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

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John Seligman & Co.

Wholesale Florists,

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Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising.

V. S. DORVAL, Secretary.

Philadelphia.

A BUSY WEEK.

The past week has been a busy one the windup of the season seeing many social events crowded together. Fortunately the supply of flowers, particularly roses and carnations, increased a trifle; not much, but enough, with a judicious substitution of bulbous stock, sweet peas and the like to get orders filled fairly satisfactorily. The American Beauty rose is, we fear, a passing favorite. The scarcity of this rose during the six weeks of the social season preceding Lent, makes it unsatisfactory both for grower and retailer. So few of this variety has been carried in stock by the commission houses during this period and such high prices are demanded for inferior stock, that the retail stores discourage the sale and push long stemmed Killarney, Mrs. Jardine and Richmond, which are placed on the market in such fine condition, that Beauties are not called for in exclusion to all others as formerly when the best was desired. Several large growers have dropped this variety and others, it is said, will follow next season. Carnations are a trifle more plentiful but are still held at good figures, $4 to $5 being asked for stock. Bulbous flowers are plentiful and help out. Daffodils took a tumble and have sold as low as $2 for good stock. Sweet peas are plentiful and popular and there is great improvement in these as a winter cut flower; they are quite a factor being very much used, particularly for luncheons and other light decorations. It is a pity that many of the growers do not know the condition in which the flowers should be cut. So many lots are sent to the market long before they are fit. The sweet pea does not improve after being cut; it should be fully open and at its best when gathered for market and sold the day it arrives. Get the blossoms fully open then the bunches look larger and are full of fragrance and help to swell very materially the figures of the returns. Violets are now at their best and very fine flowers are coming in. Singles range from 50 to 75 cents per 100; coming in and is a welcome addition to doubles, 75 cents to $1. Snap dragon is the list.

The Habermehls have been very busy the past week having large decorations for the Lincoln anniversary dinner at the union league and the second assembly at the Bellevue-Stratford. The decorations for both functions were very elaborate, the central feature of the ball being an electric fountain as well as well flowered acacias, of which this firm has some very fine plants. There were also some fine dinners preceding the ball at which sunken garden effects in the center of the table filled in with pink azaleas was worked out with good effect.

The Leo Niessen Co. says the demand for all high class flowers appears to be increasing. Gardenias and orchids have sold better this season than ever and they are certainly after their grower to keep up the supply of acacia, which, although 50 cents per bunch higher this season than last, is nearly always sold ahead.

The McKissick Bros. are handling a lot of fine southern Asparagus Sprengeri which reaches this market in fine condition. They say their business for the past two weeks has been limited to the supply of stock as they seldom shut the store at night with anything left over for the next day.

The visit of President-Elect Taft on Washington's birthday afforded an opportunity for a fine decoration at the University of Pennsylvania, and this with a number of dinners and the Philopatrian ball on the same day gave them one of the busiest weeks they have ever experienced.

H. C. Heileman who has been a fixture at the Leo Niessen Co. has gone into the retail business purchasing the store of the Wm. Graham Co. of Germantown, where he will continue the retail business lately carried on by that firm.

K.

Washington.

EVERYONE BUSY.

Considering the amount of flowers that were disposed of during St. Valentine's day one would naturally expect that the following week's business would decrease to a great extent; however, such was not the case for everyone was busy with either funeral work, luncheons or dinners. There are quite a few weddings and dinners booked for the next few days, but it is plain that trade will deteriorate somewhat after the Shrove Tuesday parties. The hospitalities, either for the incoming notables or the outgoing contingent, will keep things active, until March 4, when its absorbing incidents will no doubt claim first attention. Washington's birthday created a great demand for violets and other seasonable stock, and almost every store had some appropriate window decoration, in memory of our first president.

Last Wednesday was the day set for the tri-city bowling match between Philadelphia, Baltimore and Washington. There was a number of Baltimore ladies present who are enthusiastic bowlers. Their Washington sisters met them at the train, and escorted them to the White House, where able guides explained all the historic facts regarding the executive mansion. After this they went to lunch, then the bureau of engraving and printing, was explored, and a birdseye view of the city was taken by the ladies from the top of the Washington monument. After taking a good look, they joined the men at the bowling alleys and rolled a series of games; the scores will be found under "Our Pastimes." The men devoted the greater part of the afternoon to the bowling, which was finished about 6 p. m. At 6:30 the bowlers left for Baltimore accompanied by the Washington team, in order to roll the second series of games on the Baltimore alleys.

NOTES.

The Pennock, Meehan Co. will open a wholesale commission house, about March 1. They expect to locate at 1220 New York avenue. Albert Schnell, now with Marche and Co., will be manager, and the firm is to be congratulated on having secured such a capable and popular man.

Geo. Shaffer had the decorations and center piece for the Wood luncheon at the New Willard. The table was 35 feet long, 13 feet wide, and one center piece of Killarney 10 feet long was the main feature of the decorations.

The court of honor which extends from Pennsylvania avenue and Fifteenth street to Pennsylvania avenue and Seventeenth street, will be decorated by the Gude Bros. Co.

Geo. H. Cooke furnished the flowers for the bachelors' cotillion at the New Willard hotel. Killarney roses, white lilac and carnations being extensively used.

F. H. Kramer has taken a liking to the Japanese air plant, and has his windows, and a portion of his store decorated with it.

Z. D. Blackistone executed the decorations at the Japanese embassy; the center piece was made up of Richmond and Perle roses.

J. R. Freeman has an excellent lot of flowering plants which he is displaying in his Thirteenth street store window.

J. H. Small & Sons report good business.

G. S.

Boston.

BUSINESS CONTINUES GOOD.

We are glad to report a continuance of the splendid improvement in the trade of this section. In the efforts put forth to supply the unusual demands everything has been cut short and a general revision of prices has taken place. Unfortunately the Lenten season comes in this week and this is always dull. Funeral work, however, is coming in regularly and from now on will be the chief dependency of the traders. A few sunny days are all that are now needed to force out an abundance of blooms. Orchids, gardenias and lily of the valley form a trio that is next to impossible to overcome and have never enjoyed so wide a sale as reported the past week. The local market, while fairly well supplied, is in no position to control the trade, and foreign markets have been resorted to with the most satisfactory results. Violets too have had a tremendous week, and an excellent stock was available, sufficient in quantity to meet the market without occasioning upward movements in prices. American Beauty rose is off crop and no difficulty is found by the growers in securing their own prices which have soared along a $9 per dozen scale. Killarney is next in importance. Richmond varies constantly, the supply is extremely small and prices run along similar lines, from $2 to $4 per dozen Carnations have been flying high, the market being limited both in variety and quantity. Scarlets are scarce and the local favorite, Beacon, has again proven itself a wonderful variety. Bulb stock of all descriptions is plentiful. Washington's birthday was an ideal spring day, too pleasant for good business, and a light market was noted.

NOTES.

All plans are now completed for the exhibition next Saturday and Sunday, February 27-28, at Horticultural Hall, conducted under the direction of the Park St. Market Corporation. It is promised to be a rare opportunity to witness the highest art of commercial growers and the display is bound to include some remarkable products. Not alone to the local growers is this exhibition confined, for a large number of exhibitors from various parts of the country have promised to co-operate in making this an unusual exhibition. The list of prizes is unparalleled both in number and value and in competition for them many close rivals are to be staged. The latest addition is the Gardeners' and Florists' Club prize of $25 for the most meritorious display in the hall.

Al Hutson, the genial salesagent representing W. H. Elliott, who rarely misses a day at his post, devoted a day to a business and pleasure trip combined in visiting the magnificent establishment of

Come and See . . . . . BOSTON'S Carnation and Rose Show.
Feb. 27-28
ARE YOU WITH US?
All the New.
The Best of the Old.
SEE BEFORE YOU BUY.
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Address all exhibits, express prepaid, to
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care of E. ALLAN PIERCE, Sec.
They will have careful attention.

Daffodils, Single and Dbl. $2.00-$4.00 per 100
Tulips, Single and Dbl. $3.00-$4.00 per 100
Valley. $2.00-$4.00 per 100

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Freesia, pure white $3.00 per 100
Lilac, white 50c per bunch
Callas $1.50 per dozen

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Asparagus Plumosus Nanus.
Extra large heavy Strings, 50 cents each.
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All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.
W. E. McKissick & Bros.
WHOLESALE FLORISTS.
ABSOLUTELY THE BEST POSSIBLE SERVICE.
Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

BEST VIOLETS - BABY PRIMROSES - SWEET MIGNONETTE
Also a full line of Everything Seasonable.
McCALLUM CO., Inc. Pittsburg

this firm at Madbury, N. H. Enjoying the few hours allowable owing to the crop intermissions in this way is a particular hobby of this hustler, who returned more enthusiastic than ever.

W. J. Morris of Wellesley, one of the prominent rose growers of the state, has been confined to his home with erysipelas for the past two weeks. He is now on the road to recovery and is allowed out a few hours each day, which time is spent in inspecting his plant, never closing his business eye.

Mann Bros. are distributing a collection of lilac plants of the highest order, a particular and necessary attraction for the early spring market.

B.

Massachusetts Agricultural College.

On February 3, George Sinclair of Holyoke, gave a very interesting talk before the floricultural classes on "Chrysanthemum Culture." Mr. Sinclair spoke largely on methods of culture and gave many details of interest to growers. The following week E. J. Canning gave an excellent address on "The Work of the Private Gardener." On February 17, Edward MacMulkin of Boston spoke on "The Retail Trade." Mr. MacMulkin not only gave a talk full of excellent suggestions for success along this important line of floriculture, but he brought with him a large number of handsomely decorated baskets with different varieties of flowers for the same, and demonstrated to the students in a very pleasing way, methods of disposing of the short-stemmed flowers in a manner satisfactory to the dealer and the customer. He showed how various color schemes could be worked out. These talks by various practical men are proving very popular with the students. They realize that in no other way can they get better details of management and culture of plants and flowers, than from the experience of these successful men. This week M. A. Patten and Peter Fisher are to talk on carnations.

On February 18, a party of short course men left on a three days' observation trip among commercial florists' establishments in eastern Massachusetts. On February 13, the class visited Adams' Nurseries, Aitker's, Beal's, Schlatter's and Ried's greenhouses in Springfield. The dedication of the new instruction building for floriculture and market gardening, and of the new range of greenhouses, promises to be an interesting affair. Many of the florists have signified their intention of sending flowers for the exhibition to be held by the senior class at that time. Several horticultural societies will send delegates to attend these dedicatory exercises. The principal speaker will be John K. Farquhar of Boston, who will discuss in a general way the subject of intensive culture of plants under glass.

E. A. WHITE.

Wholesale Flower Markets

PHILADELPHIA, Feb. 24	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Lilac ..... per doz..	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Feb. 24.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	4 00@12 00
" Chatenay	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	2 00@ 4 00
Cattleyas	75 00
Daffodils	3 00@ 4 00
Freesias	4 00
Lilium Longiflorum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Snapdragon	2 00@ 4 00
Sweet Peas	50
Violets, single	50
" double	5C@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	8 00@12 00

BOSTON, Feb. 24.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lilyof the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties
The finest in this Market.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

GENEVA, N. Y.—Smith & Gannett have closed a long lease on a store at 53 Seneca street which they are fitting up as a first-class, up-to-date establishment and will shortly move into.

SALEM, O.—This city is to have a new greenhouse, the contract for the building material having already been let to a local firm. The name of the new concern will be the Grandview Greenhouse Co., and it consists of Russell R. Case and Norman W. Weirick, both of this city. The location of the new concern will be on Franklin avenue, immediately opposite the entrance to Grandview cemetery. It is proposed to erect suitable buildings for the purpose of raising plants and cut flowers of all kinds as well as mushrooms and other vegetables. The company expects to be ready for business by Decoration day.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Toronto, Ont.

WITH HIGHEST GRADE ARTISTIC WORK

Dillemuth FLORIST

Can be relied on to fill all mail, telegraph or cable orders.

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Canada's Best Known and Most Reliable Florist.

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WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

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Telegraph Orders a Specialty. 218 W. 4th St.

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FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

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Order by mail, telephone, telegraph or cable. Cable address: "Daniels, Denver."

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Robert Kift,

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Prompt and Careful Attention given to all Mail and Telegraph orders.

Nashville, Tenn.

Joy Floral Co.

610 Church Street.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

Always mention The American Florist when you order stock.

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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Chicago. Tel. West 702.
The Floral Shop,
SCHNELL & POPPE, Prop'rs.
Our facilities for handling out-of-town business are perfect. 705 W. Madison St.

Cincinnati, O.
JULIUS BAER,
138-140 E. Fourth St.
Long Distance 'Phone.

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The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in NORTHERN OHIO.

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—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Atlanta, Ga.
ATLANTA FLORAL CO.
41 Peachtree Street.

WHITE MARSH, MD.—The greenhouse establishment of Richard Vincent, Jr., & Sons Co., was damaged considerably by a violent whirlwind which accompanied the rain and windstorm of February 16. The office building was twisted nearly a foot on its foundation, the glass partition which separates it from the warehouse and packing room was blown down, hundreds of panes of glass were broken in the greenhouses, tree tops were twisted off and general havoc created. The whirlwind was traveling in a northeasterly direction and seemed to spend its fury on Messrs. Vincent's farm.

Detroit, Mich.
John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.
Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

CLEVELAND
The J. M. Gasser Company
EUCLID AVENUE
We Ship to All Points in Ohio.
The Best of Everything in CUT FLOWERS.

Kansas City, Mo.
GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

St. Louis, Mo.
Fred C. Weber,
FLORIST,
Established 1878. Bell, Lindell 676. 4320-4328 Olive St.

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Write, Wire or Phone Your Orders to
YOUNGS
1406 Olive Street,
Regular discount allowed on all orders, either Plants or Cut Flowers.
Phones Bell, Main 2306, Kinloch, Central 4981

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Bertermann Bros. Co.
FLORISTS
.....241 Massachusetts Ave.

Hoffman FLORIST
59-61 Massachusetts Ave. Commonwealth Ave.
BOSTON.

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THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
Western Union Code.

Galveston, Tex.
Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. Phone 1912.

St. Paul, Minn.
HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

St. Paul, Minn.
L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Owatonna, Minn.
Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

Terre Haute, Ind.
John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Milwaukee, Wis.
C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

Kansas City, Mo.
Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

LEONARD'S pea, Potlatch, is in demand; it is nearest to an improved Stratagem.

THE Nebraska pure seed bill lately introduced is not likely to be considered this session.

CATALOGUE mail trade while good for January, has been set back some by the severe storms the first half of February.

THE death of Eugene Germain, president of the Germain Seed and Plant Co., Los Angeles, Calif., is chronicled in our obituary column.

THE French government, it is said, has bestowed the cross of the "Merite Agricole" upon M. Samson of Samson & Fillon, Angers.

CALLA, O.—The Templin Company here and with a branch at Youngstown, which failed last year, is paying through the trustee an eight per cent dividend. A small additional payment is promised.

EXPORTS of flax seed from the United States during the calendar year 1908 amounted to 1,395,508 bushels, as compared with 4,867,156 bushels in 1907 and 9,810,388 bushels in 1906; imports in 1908 were 44,721 bushels, 81,522 bushels in 1907, and 82,907 bushels in 1906.

CHICAGO.—The onion set market is somewhat easier with prices from 10 to 20 cents under those of last week.—Contract prices on the board of trade February 23 for grass seed were noted as follows: Prime timothy, $3.80, white clover, $15.—Visitors: Frank H. Henry and Robt. Fulton, of Henry & Lee, New York; A. J. Pieters, Hollister, Calif.

Seed Law Making in Nebraska.

Miller's pure agricultural seed bill caused a hubbub in the house, Chairman Kelly's attempt to put a motion for the passage of the bill causing a momentary riot. The bill had been read section by section once before but had been laid over. Miller, the author of the bill, not being present. But the members had forgotten all about this. They had forgotten what the bill was about and yelled loudly that Kelly was proceeding irregularly. But the Hibernian member from Furnas knew where he was "at"; the members did not. In courtesy to their poor memories the chairman finally ordered the bill read again. The bill provides against frauds in concentrated food stuffs and prescribes the percentage of germinal seeds that must be present in seeds offered for sale.

The reading of the bill was a marked instance of where the clerk earned his daily pittance. The bill contains 17 long sections. At first the clerk stood erect and sent forth a sonorous fire of words. Then he looked appealingly at the chairman. But the chairman was obdurate; now that the reading had begun it had to be finished. The house, so anxious for the reading of the long measure, had engaged in conversation for the most part following the practice of impolite society which begins to talk only when the singer begins to sing. After section five had been elocuted by the clerk, Thomas moved to cut out the entire section. He made a long speech and then found that section five was not the section he wanted to cut out. So Cone proceeded to labor. There is a large collection of fine old Roman words in the bill, words like Brassica synapistrum and Cuscuta epithymum—these words Cone dodged with great agility, escaping the tentacles of grasping parentheses and hiking straight down the field of good, old Anglo-Saxon. When the clerk reached section 13 Thomas went back on the firing line, having found this time the section that he really wanted to slay. This section provided that the restrictions of the act should not apply to the sale of seed by a farmer to a purchaser unless the farmer gave the purchaser a certificate. Thomas wanted to see the farmer put under the same restrictions as any other vender of seed. Thomas said his motion arose from a suggestion of an Omaha seed merchant.

Clark said that he was interested in the remarks of the gentleman from Custer but that he was not informed on the bill and that as many merchants had told him that the bill favored the eastern seed houses that he thought all the members should give it further consideration. Consequently, the bill was passed over for a time and will come up when the members are better informed.—Lincoln, Neb., Star. [The bill was later indefinitely postponed by a large majority. —ED.]

Country Girl Going Out to Plant the Yokohama Nursery Co.'s Lilium Giganteum.

Catalogues Received.

A. T. Boddington, New York, seeds and bulbs; H. F. Fiske Seed Co., Boston, Mass., seeds, bulbs and plants; W. Atlee Burpee, Philadelphia, seeds; Joseph Harris Co., Coldwater, N. Y., seeds; Griswold Seed Co., Lincoln, Neb., seeds and bulbs; Weeber & Don, New York, seeds, bulbs and sundries; City Market Seed Co., Denver, Colo., seeds; Henry Saxton Adams, Wellesley, Mass., seeds and bulbs; O. V. Zangen, Hoboken, N. J., seeds, bulbs, plants, etc.; Hunkel's Seed Store, Milwaukee, Wis., seeds; Theodosia B. Shepherd Co., Ventura-by-the-Sea, Calif., plants and seeds; S. M. Isbell & Co., Jackson, Mich., seeds; Graham Bros., Ottawa, Ont., seeds, plants and bulbs; S. J. Reuter & Son, Westerly, R. I., chrysanthemums, carnations and roses; The E. G. Hill Co., Richmond, Ind., roses, carnations, bedding plants, etc.; E. E. Stewart, Rives Junction, Mich., gladioli; Arthur Cowee, Berlin, N. Y., gladoli; R. Vincent, Jr. & Sons Co., vegetable and bedding plants; The Connon Floral Co., Hamilton, Ont., plants, roses, vines, etc.; M. E. Chandler, Argentine, Kans., perennials, peonies, trees and shrubs; Sterling Emery Wheel Mfg. Co., lawn vases.

Vilmorin-Andrieux & Co., Paris, France, seeds and plants; Max Kornacker, Wehrden, Germany, seeds, plants, etc.; Weigelt & Co., Erfurt, Germany, seeds; Nonne & Hoepker, Ahrensburg, Germany, seeds and plants; Anatole Cordonnier et Fils, Bailleul, France, chrysanthemums; Frederick Roemer, Quedlinburg, Germany, novelties in flower seeds for 1909; W. W. Johnson & Son, Boston, Eng., vegetable and flower seeds; C. Kirkvoorde, Wetteren, Belgium, nursery stock and plants; Dobbie & Co., Rothesay, Scot., flower and vegetable seeds, plants, etc.

Imports.

During the week ending February 20, imports were received at New York as follows:

Schulz & Ruckgaber, 357 cases lily of the valley pips.

Hy Nungesser & Co., 100 bags clover seed.

J. M. Thorburn & Co., 10 packages seed.

McHutchison & Co., 18 cases seed.

To others, 633 bags, 19 packages seed, 600 bags alfalfa seed, 531 bags sunflower seed, 265 bags clover seed, 20 bags grass seed, 100 cases lily of the valley pips.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

The Everett B. Clark Seed Co.

Growers for the Trade.

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches; Michigan, Wisconsin.

MILFORD, CONN.

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors.....⅛-oz. 60c; oz. $4.00
Pure white.....⅛-oz. 75c; oz. 5.00

H. E. FISK SEED CO.,

Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering

SWEET PEA SEED

All colors. Send for list and prices.

ANT. C. ZVOLANEK,

BOUNDBROOK, NEW JERSEY

Landreths' Seeds

BLOOMSDALE FARMS

BRISTOL, :: PENNA.

If you want Seeds for filling in, name varieties and quantities.

Seed Beans

F. L. HOGUE,

CARPINTERIA, CALIF.,

Grower for the Wholesale Trade only.

Rogers Brothers,

SPECIALTY GROWERS.

Purest Strains GARDEN PEA and BEAN SEED.

For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert

GILROY, CAL.

Wholesale Seed Grower

Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety. Correspondence solicited.

Seeds for Florists

Send me your wants in Flower Seeds.

Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.

Vegetable Seeds for Forcing.

Let me quote and send catalogues.

STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

S. M. Isbell & Co.

Jackson, Mich.

Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,

Correspondence solicited.

Write for Prices on Surplus Stocks for Immediate Shipment.

Jay J. Utter, BRAVO. MICH,

Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

J. E. Hoopes & Co.

Muscatine, Iowa.

Growers of Muscatine Island Vegetables, Sweet Potatoes, Seeds, Plants, Melons, etc

Specialties: Peppers, Tomatoes, Asparagus

Seeds and Asparagus Roots Grown on Contract.

Seedsmen cordially invited to inspect our growing crops or stocks at any time.

CORRESPONDENCE SOLICITED

WHY DELAY ORDERING YOUR

FLOWER SEED

The best that money can buy is not too good for you
We have the best we could possibly procure.
Just try us on the following for immediate sowing:

	1 oz.	tr. pkt.
Salvia Bonfire (Clara Bedman)	$2.25	$ .25
" Splendens (Scarlet Sage)	1.00	.15
" Zurich (new)	1-16 oz., $1.25	.50
Verbenas, S. & I., finest mixed	2.00	.25
Lobelia Crystal Pal., compacta, true		.25
" Speciosa, trailing		.10
Begonia Vernon	1-16 oz., 50c	.25
" Erfordii		.25
" Semperflorens Magnifica (very fine for pots)	1-32 oz., $1 50	.50

	Tr. pkt.
Stocks, Princess Alice (Cut and come again)	⅛ oz., 50c .25
Primula Obconica Gigantea, 4 colors, separate or mixed	.50
Asparagus Plum. Nanus, fresh greenhouse-grown	$4.00 per 100
Asparagus Sprengeri, fresh greenhouse-grown	.75 per 100

Ask us to mail you our latest Catalog of Seeds, Bulbs and Plants.

SKIDELSKY & IRWIN CO., 144 N. 7th St., Philadelphia, Pa.

Wildpret Bros. Port Orotava, Teneriffe (Canary Islands).

Largest Growers and Exporters of genuine

BERMUDA ONION SEEDS

Raised from purest strains obtained after many years' constant work.

We sell no old or mixed seeds. Our stock is true to name and quality. Those customers wishing to have a full delivery in the coming season are requested to send their orders at an early date.

☞REMEMBER THAT WE EXECUTE ORDERS FROM THE TRADE ONLY.

We want to protect our friends by SELLING ONLY TO REGULAR SEEDSMEN, and we expect also to receive your kind protection.

FIELD SEED CORN We Grow for the Wholesale Trade.

We grow all the leading best varieties: planted from pure stock, carefully selected, hand picked: butt and tip ends taken off by hand: also milled, screened and graded: highest quality and grade. Write for samples and prices, with list of your requirements, in car lots or less.

Robinson's Code. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

Seedsman Wanted.

Competent counter hand, with good knowledge of garden, field and flower seeds; to travel part of year if required. State particulars and salary required.

NORTHRUP, KING & CO., Minneapolis, Minn.

THE CREGO ASTER

The Best in the Market.

The immense fluffy blossoms in white and shell pink, sell at sight and always at top prices. It is a hard matter to overload a market with first-class flowers. Trade packet, $1 00; ½-oz., $4 50: ounce $8.00. Address.

G. S. CREGO, 693 E. 10th St., Portland, Ore.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

GET NEW CUSTOMERS

By placing your specialties before the purchasing florists of the entire country by advertising in

Send Copy Now. THE AMERICAN FLORIST.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

HUNTINGDON, IND.—The Little River Gardens Co. has just finished a large greenhouse for vegetable plant growing.

IRONDEQUOIT, N. Y.—Several thousand dollars damage was done by the weight of the snow on a large greenhouse owned by the George W. Titus Garden Co., February 16. The snow caved in the glass and ruined about $2,000 worth of lettuce and other crops.

THE mushroom industry in Chester County, Pa., is booming these days and if the market holds there will be much rejoicing in this rural section. One man in Kennet Square shipped 600 pounds one day last week and 5,000 pounds were started for the various markets from Toughkenamon growers a day or two later.—K.

GRAND RAPIDS, MICH.—Dr. Thomas Gunson of the Agricultural College visited the plant of the Grand Rapids Greenhouse Co. February 18. Among other things Dr. Gunson witnessed was two acres of growing lettuce under glass. After the inspection he remarked that he had seen many greenhouse plants in his time, but never any such establishment as this company could show.

DES MOINES, IA.—Francis Lestier is one of the most successful truck farmers west of the Mississippi. Among the permanent improvements built since 1901 are an $8,000 house, under which is a modern cold storage plant, a steam pumping plant that draws water from the river half a mile away and lifts it 145 feet into a monster reservoir, and eight greenhouses. Tomatoes and lettuce are two of Mr. Lestier's favorite crops with which he is very successful.

Cucumber Culture Inside.

By the tone of certain writers, one would imagine that there was only their way of training cucumbers to be successful. But when one writer is so strong for the single stem system and another is equally as sure that the let alone or extension system is the one thing needful to success, then one begins to think that there is something beyond the mere training that has to do with success or the opposite. We may as well admit that we are in favor of allowing all the extension possible without overcrowding, and our reason is that the roots are thereby kept in a more vigorous condition and therefore the more able to take up feed. Plants constantly pinched in are constantly checked, and the roots are not as vigorous as they are on extension plants.

On the face it appears that more fruit is produced by a number of single stemmed plants than by fewer plants taking up the same room in the extension principle, but the advantage is more imaginary than real, for in the extension plants the same space is made use of time after time by tying the vines regularly and insuring always a regular spread of new growth. A good foundation is laid at first by training the laterals so that the principal leaves have room to develop, and these form a kind of permanent protection from the sun and an aid to the roots. It may be said that the same thing occurs with the single stem plants, but if the single stem theory was carried out closely there can be no such thing as new growths without cutting out the old stem entirely.

Still these are matters of detail. What all must do to produce good cucumbers over a lengthy season is to start right with clean, healthy plants and keep them this way by constant attention and plenty of heat and moisture, and maintain a constant growth; this constant growth reacts upon the roots, keeping them all the while active and searching for the manurial sustenance that must be freely given to replace the constant drain on the plants that the cutting of the fruits causes. Seed should be sown thinly in flats or pots over a bottom heat of 70° at least, and, in order that the young plants are not stunted, the soil should be in the benches and warmed up ready for planting in not more than four weeks after sowing the seed. It is best to be ready, for the plants may be set out as soon as the rough leaf is well formed, and they will at once take to the soil.

If grown in flats great care is needed in transplanting. Every little piece of root is needed by the young plant, and if these are broken the plants are checked. Treated properly and watered in at once the little plants hardly feel the removal. For the horizontal wire system of training we let the plants reach the second wire before topping, and then pinch the point out. The resulting laterals are allowed to make about three or four good leaves, and these are again pinched, any fruits that show being rubbed out. Then the fruiting begins, each shoot being pinched at one eye beyond the fruit, and no thinning being done beyond the removal of crooked fruits.

All the time the atmosphere is kept moist and the temperature high; we do not bother with thermometers or give much air. It is easy to tell on entering the house whether the atmosphere is right or not, and whenever there is the least suspicion of dryness throw more water around. Spray the plants regularly several times daily when bright, and all through the early part of the season allow the sun to shine full on the plants. These delight in sun at all times, and the brisk, buoyant atmosphere so well known and caused by the sun shining on a moisture-laden house is just the one thing needed to keep cucumbers healthy and growing freely. The two things are really synonymous. Cucumbers cannot be healthy or clean unless they are growing rapidly.

Feeding should be constant and applied by means of very thin top dressings of rich soil and manure rather than one heavy mulch. Then the little feeding roots are always near the surface, absorbing the plentiful moisture and the food in solution; the plants are working full time in fact, and producing just as much fruit as possible. Where a plant shows signs of failing rip it out and put another in its place, and as for insecticides, well, when cucumber plants cannot be kept clean without them then it is best to grow something else. Grow young, clean plants; keep them always going at full pace; use every bit of sun heat possible and plenty of moisture and feed, and there will be plenty of cucumbers, no matter what system of training is followed. COMMERCIAL.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

For Transplanting.

	1000
Cabbage, Wakefield and Succession	$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100:	3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain 40c per 100	3 00
Chinese Giant and Cayenne...50c per 100	
Tomato, Earliana, Chalk's Jewell, and Early June Pink 30c per 100	2 00

— Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St.Paul, Minn**

VAUGHAN'S 1909 VEST POCKET CALENDAR FOR GARDENERS.

Full of useful suggestions and reminders for forevery month in the year.

Every man about the place should have a copy in his pocket.

Price 25 cents, postpaid.

AMERICAN FLORIST CO.,
324 Dearborn Street, CHICAGO.

Vaughan's Seeds

ALYSSUM

Vaughan's Little Gem, extra fine strain........ lb., $3.50: Trade pkt., 10c: oz , 35c

ASPARAGUS PLUMOSUS NANUS

We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds

BEGONIAS Trade pkt.

Berna. Flowers are of very bright, carmine red: they are produced all summer and in great abundance.................$ .15
Salmon Queen, new...................... .25
Semperflorens Red Lubecca. Fine for bedding............................... .25

LOBELIA

Bedding Queen. This is undoubtedly the best of the dwarf Lobelias. The best Lobelia for carpet beds, borders and pots.................Trade pkt., 15c: ⅛ oz., 25c: oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage. true	$ .10	$ .55
Hambrugin, new, for hanging baskets	.25	
MAURANDYA, mixed ...¼ oz., 25c	.10	1.00

"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS

This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts.... .... Trade pkt. (1000 seeds), 50c: 3 pkts. for $1.25

	Trade pkt.	Oz.
Howard's Star	$ .10	$ .80
Snowball ⅛ oz., 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich........¼-oz., $1.25	.25	
SMILAX, new crop........ lb., $3 00	.10	.25
STOCKS, "Prince Bismarck," new giant double white	.25	
THUNBERGIA, mixed	.10	.40

VERBENAS

	Trade pkt.	Oz.
Defiance, brilliant scarlet true	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice	.15	1.00
Rose and Carmine shades	.25	2.00
Purple	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa	.05	.20
Lemon (Citriodora)	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c: ¼ oz., 50c: oz., $2.00: 2 ozs., $3.50.

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. **NEW YORK:** 14 Barclay St.

Greenhouses, Trial Grounds and Nurseries, **Western Springs, Ill.**

Book for Florists, Spring Edition, Now Ready

S. D. Woodruff & Sons

SEED GROWERS AND DEALERS.
Garden, Field and Flower Seeds.

82 and 84 Dey St., NEW YORK.

Seed Farms: Orange, Conn. **OUR SPECIALTIES: Onion, Beet,** Tomato, Cabbage, Cucumber, Sweet Corn, **Seed Potatoes** and **Onion Sets.**
Catalogue free. Correspondence solicited.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points February 20 were as follows: Boston, cucumbers, $10 per box. Kansas City, cucumbers, $1.75 to $2 per dozen; lettuce, 65 cents to 75 cents per box. Cincinnati, cucumbers, $1.75 per dozen; mushrooms, 40 to 45 cents per pound. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $3.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 15 to 25 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents; French endives, 25 to 40 cents per pound.

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

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A new shade of beautiful soft pink splendid form
$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

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GENUINE MEXICAN EVERBLOOMING

If you have never grown these for summer cutting, you have overlooked a fine thing.

1st size....................$10 00 per 1000
2nd size.................... 8.00 per 1000

Each bulb will produce two to six spikes.

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Guthrie, Oklahoma.

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Begonia Dichroa, Ruby	$ .50
Stocks, Cut and Come Again, asst	.50
" Early Brompton or Nice, asst	.50
Salvia, Bonfire, Farinacea	.25
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Petunia, large flowering, fringed and stained	.50
" Howard's Star, Inimitable	.25
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" Barnard's Perpetual, White Lady	.25
Myosotis, Stricta, 3 colors	.20
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Poppy, Alpine, fine for pots	.15

All other standard varieties in fresh stocks.
Catalogue on application.
Fresh Tobacco Stems, $1.50 per 300 lbs.

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Gladioli. Not the largest stock, but as good as any.

Iris Germanica, Madeira and Cinnamon Vines.

The argest and best stock in the country.

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California Privet, 1 year, well branched, $20.00 per 1000, cash with order. Nice lot of American **Chestnut Trees** at a bargain. About 56 large **Sugar Trees,** most of them sample trees. Surplus of Stone **Tomato Seed.** Ruby King, Neapolitan, Bull Nose and Sweet Mountain **Pepper Seed** at a bargain.

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Vegetable Plant Nurserymen and Seed Growers.

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American Association of Nurserymen.
C. J. Brown, Rochester, N. Y., President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

PENNSYLVANIA fruit growers are alarmed at the forward condition of the trees at this date.

IT is stated that the British government intends planting trees on 9,000,000 acres of land, as relief work for the unemployed.

LOS GATOS, CALIF.—John Cilker, a well-known orchardist and president of the Aurora Farm Co., died at his home on San Jose road February 11 after a long and painful illness.

NEW SHARON, IA.—Abner Branson of the New Sharon Nursery and fruit farm gives it as his opinion that the recent freeze, when the trees were laden with moisture, has about spoilt the prospects for a peach crop.

DULUTH, MINN.—At a meeting of the State Agricultural Association, February 19, it was stated that J. M. Underwood, manager of the Jewel Nurseries at Lake City, was interested in this part of the state and may entertain the idea of starting a nursery here.

CINCINNATI, O.—Another step in park extension was taken February 10, when final arrangements were made to purchase the Herrick Nursery, Price Hill. By acquiring this nursery the city will have a stock of young trees sufficient to provide foliage for streets, avenues and boulevards in years to come. The nursery was started 75 years ago by Sidney Jackson.

ANN ARBOR, MICH.—By an agreement with the park commission, a tract of land containing about 30 acres, joining the university tract on the west, has been added so that the garden and arboretum contain about 90 acres. The university has secured O. C. Simonds, a graduate of the literary department in the class of 1878, to assist in the development of this park. He will give a course in the principles of landscape gardening the coming year.

STATISTICS compiled by F. A. Huntley, commissioner of horticulture, shows the following shipments of fruit trees into Washington during 1908: Apples, 1,049,117; pears, 186,915; peaches, 301,523; cherries, 165,721; plums and prunes, 63,240; miscellaneous, 37,156. Total, 1,803,672. The varieties of fruit for this state have to be more or less carefully selected, the principal requirements being that they mature their fruits before the very dry part of summer comes on and that they be drought resistant.

Magnolia Speciosa.

Although known generally as Magnolia speciosa, the fine tree herewith illustrated is really a variety of M. Soulangeana and, like all the varieties of this species, an exceedingly free flowering and showy tree. These showy magnolias are not nearly enough planted in our gardens and parks for they flower early in the season, and are showy over a fairly long time, after which the trees are very distinct and good. The varieties of M. Soulangeana are among the hardiest in the genus and thrive farther north than the majority.

Evergreen Cuttings.

I notice that someone is advising the propagation of the coniferous evergreens from cuttings taken at this time. It is doubtful if this is a safe proposition for this latitude. Here we try to take the cuttings before they have been severely frozen, and we think that October and November are the safest months to operate in. With us we find that the leaves of many of the evergreens are more or less affected by the cold, and they become softened and less rigid after the severe freezes. This condition is largely due, I presume, to loss of water, and an experienced man can tell by feeling the cuttings whether they are fit for propagation.

The evergreens seem to suffer much worse than the deciduous trees in respect to loss of moisture during our winter months. Our deciduous shrubs, where the wood is well ripened, do not seem to be much affected by the cold, and so far as their condition for propagation is concerned they may be propagated at any time during the winter. The limit is difficult to fix, but with those cuttings which root from the callus and which are slow in forming a callus, it is seldom desirable to take cuttings after February 1. The trouble is that the buds will feel the advancing season, and will start into growth before it is possible to form roots, so of course they soon perish.

Wood of free-rooting shrubs and trees like the willows, elders, currants, etc., can, of course, be taken until they are almost in leaf. Indeed there seem to be few hard and fast general rules for the guidance of the propagator, and there are but few months in the year that the propagation of nursery stock from cuttings is not in progress either from greenwood, half-ripened or ripe-wood.

JOHN F. COWELL.

American Landscape Architecture.

Professor F. A. Waugh, of Amherst, gave an interesting lecture on "American Landscape Architecture" before the Massachusetts Horticultural Society February 20. The lecturer said, in part: The art of landscape gardening is now well established in America. A considerable number of professional landscape gardeners serve a constantly widening circle of clients, and a new and higher standard of public taste is being raised. It is worth while to ask the question whether in landscape architecture we have achieved anything worthy of our time, anything responding to the spirit of the twentieth century, anything distinctive, representative, national, American.

MAGNOLIA SPECIOSA.

Continuing, the lecturer said, in the field of landscape architecture, criticism is almost unknown; and this fact presents unquestionably the greatest handicap under which the art labors. He considered the refinement which criticism has brought to literature, and said: "A progressive literature without constant criticism is an impossibility. Most productive writers recognize this. They welcome intelligent criticism, even when it rests heavily on their own works. Some writers and all publishers industriously cultivate criticism."

Professor Waugh gave interesting facts concerning his own correspondence with landscape architects in America. Some data and some valuable expressions of opinion have been secured, he said, but the big result of the whole investigation is to show the very general and hearty suspicion in which all such inquiries are held. Some landscape gardeners politely but firmly refused to give any information regarding their own works or anybody's else. With rare exceptions, information, if given at all, is

given grudgingly, as though a favor had been presumptuously and unwarrantably asked. This being the attitude toward the giving of information, what is to be expected when these men are asked for an expression of opinion?

He told of Andrew Jackson Dowling, "by all odds the first American landscape gardener," who was a nurseryman before he became a gardener. Frederick Law Olmsted, the leading designer of the period after the civil war, was spoken of at length and some of the public places he beautified were described in words of praise. "Of these," said the speaker, "the best known are the world's fair at Chicago (especially the wooded island and lagoon), Mount Royal park, Montreal; Biltmore, N. C., and the railway station grounds of the Boston & Albany Railroad. If we add to this list Franklin park, Boston, and the Muddy Brook parkway we have a reasonably representative selection of his best and most characteristic work.

Olmsted introduced a new appreciation of natural scenery. He first taught us to admire Nature in her own dress. Downing was, of course, a lover of natural landscape, but this element of his character was not brought strongly forward in his landscape gardening. Adaptation to site and surroundings was the keynote of Olmsted's work, and this also amounted to a new discovery in landscape art. He discovered the native flora. Gardeners everywhere were planting Japanese magnolias, purple beeches and Camperdown elms. Olmsted turned boldly, and not without violent opposition, to the commonest roadside shrubs. He adopted the outcast weeds. With the richest indigenous flora of any country in the world, we were still planting the species and varieties of European nurseries. We may remark further that this use of the native flora was the one Olmstedian principle most quickly acclaimed and adopted by others.

The native plants were used in large quantities. Common dogwood and viburnums were put in by carloads. For the first time in the history of landscape art, plants were adequately massed. This principle was not carried to extreme, however; and in fact it has not yet received the development which it merits. Indigenous plants were given their natural environment. Much attention was given to the development of this principle, especially by some of the followers of Olmsted.

The old controversies over styles have been hushed and instead of them we now enjoy a remarkably catholic taste and electicism of treatment. We have all grades of the natural style, every shade of adaptation of the Italian style, examples of the Japanese style, and hundreds of excellent works which meet the requirements put upon them frankly and adequately without reference to any set "style." This breaking away from set and conventional styles indicates that American landscape gardening has now taken root in its own soil. The services of the profession have passed largely from private into public fields. The leading problems now are not private estates of gentlemen, but municipal parks, playgrounds, and city planning. So broad a field of benevolent humanitarianism was never before opened to any part.

"My own judgment," said the speaker, "is that American landscape architecture, as it comes more and more to its proper estate, will be influenced more and more by the native landscape. It will conform itself in a larger and more fundamental way to the topography and the scenery of the continent. American landscape architecture will some day utilize the boundless resources of natural scenery. Niagara Falls must some day be the centre of a public park. The Yellowstone geyser region is already reserved and should some day be developed by the skilled hand of a competent landscape architect. The big trees fall into the same order. And some day the Rocky mountains, the great plains, the Florida Everglades, the great lakes, the Mississippi and the Hudson, Lake Champlain and the Adirondacks must all be opened up to public use as a past generation opened up the coal mines of Pennsylvania, the forests of Wisconsin, and the gold veins of California. Here is the most magnificent opportunity that landscape architecture ever had, and this is the field in which this greatest of all arts will become finally, magnificently and characteristically American."

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft.	1.75
2½ to 3 ft. high	2.00
	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds, 18 to 24 in. high	$ 75.00
12 to 14 buds, 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00

	Per 100
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better	$100.00 per 1000 $11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft. high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

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PRIVET, SHRUBS AND HERBACEOUS PLANTS

ROSES: Mme. Plantier, 2-yr., 3-4 ft., on own roots ..... $6.00 per 100
Philadelphia Rambler, 2-3 feet ..... $6.00 per 100; 3-4 ft. ..... $8.00 per 100
Crimson Rambler, 2-3 ft ..... 6.00 per 100; 3-4 ft. ..... 8.00 per 100
Yellow, White and **Pink Climbing Roses,** 2 yr. plants, at 6c.
Large Evergreens in quantity. Send for our wholesale list.

THE ELIZABETH NURSERY CO., Elizabeth, N. J.

American Everblooming Hydrangea.

Strong field-grown plants, 15 to 20 inches, $2.50 per doz. $15.20 per 100.
Berberis Thunbergii, 1 year and transplanted. Amoor River Privet. Japanese Privet 1½ to 2½-ft. California Privet 1 to 2½-ft.
Lists Free

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LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
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BOBBINK & ATKINS,

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Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

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Tree and Shrub seeds, especially Tulips, Poplars, Calycanthus, Red Bud, Sweet Gum, Witch Hazel, etc. at special prices to close.

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Azaleas and Rhododendrons

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JEAN BRACKE,

LOCHRISTY, near Ghent, BELGIUM.

Catalogues free on application.

Now is a good time to order

SOME DESIRABLE

Hardy Plants

All nice field-grown stock.

	Each
Anthemis Tinctoria (Golden Marguerite)	3c
Aquilegia Cærulea Hybrida	4c
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Aster Novæ Angliæ	3c
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Gypsophila Paniculata	3c
German Iris, Mme. Chereau	3c
Hibiscus Crimson Eye	3c
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" Militaris	3c
Liatris Pycnostachya	3c
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Phlox Athis (tall salmon pink)	3c
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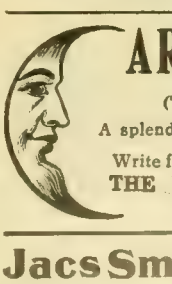
Painesville, Ohio.



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(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
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Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

For Best Results Advertisers should mail new advertisements and changes so as to reach us on Mondays.

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PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		6.00	50.00
ENCHANTRESS		3.00	25.00
MRS. THOMAS W. LAWSON		2.00	15.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		6.00	50.00
RED. Per 500.			
O. P. BASSETT	$35.00 1.50	8.00	60.00
BEACON		4.00	35.00
ANDREW CARNEGIE		6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		6.00	50.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants. 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

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Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

ROOTED CARNATION CUTTINGS

For Immediate Delivery.

	100	1000
Lucille, (white, overlaid with pink)	$12 00	$100 00
Mrs. J. C. Vaughan, white	12 00	100 00
Mrs. Chas. Knopf,	12 00	100 00
O. P. Bassett,	8 00	60 00
White Perfection,	3 00	25 00
Beacon	3 00	25 00
Victory	3 00	20 00
Winsor,	3 00	25 00
Rose Pink Enchantress,	2 50	20 00
Enchantress	1 75	15 00
Lawson,	1 50	12 00
Lady Bountiful,	1 75	15 00
White Enchantress, that is pure white	3 00	25 00

A. F. LONGREN, Des Plaines, Ill.

Headquarters for all desirable varieties of **Carnations, Chrysanthemums** and **Roses.** Write for full list.

Cincinnati.

GOOD DEMAND.

The demand for flowers the past week was exceptionally good. Two or three good sized carnation orders for openings kept this flower pretty well cleaned up, but there was no noticeable increase in the price, $3 per 100 buying the best grades, from this down to $1 per 100. Roses were good property all week and sold out clean every day at prices ranging from $8 per 100 down. The market was shy on lily of the valley and sweet peas, with just about enough bulbous stock to go around. Single violets had a good call while the double, at times, were sold to fakirs, and we all know the result. Bunches of Asparagus plumosus and Sprengeri were good property, in fact, green goods of all kinds were in good demand. At the present writing there is a scarcity of red carnations and red roses, otherwise we have a good supply of flowers.

NOTES.

J. Hansen, who has greenhouses on Brookline avenue, in the beautiful suburb of Clifton, had the misfortune of having one of his houses, containing Asparagus Sprengeri and ferns, frozen up during the past week. The ice and sleet on a large tree near this house caused one of the limbs to break and crash through the glass. The damage done was considerable, and Mr. Hansen can ill afford to lose the stock, as he has had some pretty tough breaks lately, there being sickness in his family. Notwithstanding all this, he looks at everything in a philosophical way.

Geo. Corbett, of College Hill, is loud in his praises of the new Boston violet, of which he has quite a number benched. He sent The J. M. McCullough's Sons Co. 4,000 of these for St. Valentine's day, and they sold for $1.25 per 100 right through. Pretty fair picking from 1,500 plants in one day, and without exaggerating they were the finest violets about the city.

The Hyde Park Rose Co received a letter from J. Gravereaux, of Paris, France, the past week, asking this firm to display its Taft rose at the international exhibition of rose novelties, about June 15, 1909. This firm is going to take advantage of same and forward a few of the plants, and we hope they will be as successful as the disseminators of Rhea Reid. S.

CARNATION CUTTINGS

We offer choice varieties for January and later shipments.

	Per 100	Per 1000
ENCHANTRESS	$2 50	$20 00
WHITE "	3 50	30 00
ROSE PINK "	2 50	20 00
WHITE PERFECTION	2 50	20 00
WINSOR	3 50	30 00
MELODY	2 50	20 00
BEACON	3 50	30 00
VICTORY	3 50	30 00
ARISTOCRAT	3 50	30 00
SPLENDOR	6 00	50 00
VESPER	3 50	30 00
WHITE LAWSON	2 50	20 00

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NEW WHITE CARNATION

MARCHIONESS

Fine form, prolific early and cotinuous.

$10.00 per 100; $80.00 per 1000.

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Successors to L. E. Marquisee Estate.

Rooted Carnation Cuttings

Victory. Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

ELI CROSS, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

Rooted Cuttings Ready for Immediate Delivery

	Per 1000
5,000 Beacon	$35 00
5,000 Winsor	25 00
10,000 White Perfection	25 00
10,000 Rose Pink Enchantress	20 00
10,000 White Enchantress	25 00
2,500 Andrew Carnegie	50 00
2,000 Splendor	50 00
3,000 Pres. Seelye	50 00
2,000 Afterglow	50 00
3,000 Lawson-Enchantress	50 00
5,000 Enchantress,	25 00
3,000 Lady Bountiful	25 00
1,000 Lloyd	40 00
2,000 Melody	25 00
2,000 Sarah Hill	50 00
Defiance	50 00
Dorner's Pink Delight	100 00

	Per 100
Mrs. Vaughan, from 2½-in. pots	$12.00

Chicago Carnation Co.,

A. T. Pyfer, Mgr.,

Joliet, Illinois.

It takes good, healthy plants, free from rust and other diseases, to produce a crop like this. Our plants have retained their health and vigor since the date of this photograph, which was taken three years ago. It takes healthy plants to produce healthy cuttings, so, if you want cuttings of this kind, send us your order.

	Per 100	Per 1000
White Perfection	$3 00	$25 00
White Enchantress	3 00	25 00
Winsor	3 00	25 00
Afterglow	6 00	50 00
Beacon	$3 00	$25 00
Victory	2 50	20 00
R. P. Enchantress	3 00	20 00
Lawson-Enchantress	6 00	50 00
Enchantress	$2 00	$18 00
Mrs. Patten	2 00	15 00
Lawson	1 50	12 50
Sarah Hill	6 00	50 00

ROSE CUTTINGS

	Per 100	Per 1000
Bride and Maid	$2 00	$17 50
Chatenay	$2 00	$17 50
Perle	$2 50	$20 00
Alice Roosevelt	$7 50	$60 00

All cuttings guaranteed to be first-class.

WEILAND & OLINGER, Newcastle, Ind.

Rooted Cuttings **Now Ready.** Nothing but the **Best** at **Lowest Price**—first come, first served. Credit only to reliable people

	Per 100	Per 1000
W. H. Taft (New Red)	$12 00	$90 00
Victory	2 50	20 00
Enchantress	1 75	15 00
Pink Lawson	1 50	12 50
White "	2 00	18 00
Variegated "	2 75	25 00

SCHEIDEN & SCHOOS, 60 Wabash Ave., Chicago

Indianapolis.

Business is reported as good in general, and stock is plentiful just now.

F. W. Gust of A. Weigand & Sons, has resigned and is going to take a trip through the east before he locates permanently. H. Kipke of the same firm has just returned from Chicago.

Bertermann Bros. Co. reports great success with its new machine in making deliveries promptly.

H. L. Weigand contemplates buying an automobile for his private use.

H. W. Rieman has just bought a new delivery wagon. C. R. G.

NEW ORLEANS, LA.—James Newsham is going largely into the orchid collecting and dealing business and has received a number of large orders of late, including one for 1,500 plants from a Chicago firm.

Carnations in Variety

ROOTED CUTTINGS

	Per 100	1000
Enchantress,	$2 50	$20 00
White Enchantress,	3 00	25 00
White Lawson,	1 50	12 50
Pink Lawson,	1 50	10 00
Var. Lawson,	2 00	18 00
Winsor,	2 50	20 00
Lady Bountiful,	1 50	12 50
Boston Market,	1 50	12 50
Beacon,	3 50	30 00
Kingston Pet,	2 50	20 00
Pres. Seelye	4 00	35 00

Newburgh Floral Co.,
58 Second St., NEWBURGH, NEW YORK.

50,000 PANSIES. 50,000
JENNINGS' STRAIN.

Large flowering, fancy colors extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud 1 00
Strong plants bloom in April ..... Per 1000, $5 00
Smaller size plants ..... Per 1000 4.00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**
Grower of the Finest Pansies.

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., **Cincinnati, O.**

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Ellis, Mass.
Send for Price List of Carnations.

CARNATIONS

Apple Blossom **Wanoka**

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100; $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,
BARNEVELD, NEW YORK.

FIELD-GROWN
Rose Plants
Suitable for Easter forcing.
NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each: $30.00 per 100.
Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.
We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.
Send for Catalogue.

ROSES
We have a fine stock of large, dormant field-grown plants on own roots, including Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, Fracois Levet, Jack, Prince Camille de Rohan, Magna Charta, Ulrich Brunner, Glant of Battles, and many others, at $16.00 per 100; $150.00 per 1000 Send for list. **Roses, Dahlias** and **Cannas** a specialty.
THE DINGEE & CONARD CO., West Grove, Pa.

American Beauty ROOTED CUTTINGS
$3.00 per 100; $25.00 per 1000.
Bench plants, $7.00 per 100; $65.00 per 1000.
Geo. Reinberg,
51 Wabash Avenue, CHICAGO, ILL.

SPECIALTIES.
ROSES, from 3-inch pots. **CHRYSANTHEMUMS.**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**
IN BEST VARIETIES.
Prices low. Send for list.
WOOD BROTHERS, Fishkill, N. Y.

Bargains in 4-inch Pot
ROSES
for immediate shipment.
400 best sorts, 2½-inch
THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

ROSE PLANTS
On own roots. Send for list.
C. M. NIUFFER, Springfield, Ohio

LARGEST STOCK OF ALL
Belgian Plants
AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.
LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Carnations, Geraniums, Asparagus.
Send for low price list. I have no agents. Buyers get the benefit of their commissions.
ALBERT M. HERR, Lancaster, Pa.

MASON CITY, IA.—The Perth Florist is going out of business and taking a trip to Europe owing to his wife's sickness. There would appear to be a fine opening for a good retailer in this city.

VAUGHAN'S LIST OF
Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots	$2 00	$12 00
2 yrs. old, 2 to 3 ft., well branched, budded	2 00	12 00
3 yrs. old, 3 to 4 ft., well branched, own roots	3 00	15 00
3 yrs. old, 3 to 5 ft., well branched, budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4 inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.
Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$2 50	$16 00	$150 00
2nd size, selected, grafted	2 00	12 00	100 00
3rd size, selected, grafted	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3-inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.
Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
5-inch	35	3 50	25 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties.....each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler.....each, 50c; per doz., 5 00; per 100, 40 00
Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.
French Stock.....per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Rhododendrons, in assorted colors, our selection:			
Strong, bushy, well shaped plants, 8-12 buds	$1 00	9 00	
Strong, bushy, well shaped plants, 12-18 buds	1 25	12 00	
Strong, bushy, well shaped plants, 18-24 buds	2 00	20 00	
Lilac, pot-grown, for forcing, Mme. Cassimir, Perier, Bertha Dammann, Mme. Lemoine, strong, well branched, with plenty of buds	1 00	10 00	
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.
Vaughan's Seed Store,
84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

ROSES FOR FORCING. NOT "Made in Holland."
All strong, field-grown two years: strictly New York grown.
Crimson Rambler, Dorothy Perkins, Lady Gay, XXX grade, at $12.00 per 100; No. 1 grade at $8.00 per 100

HYBRID PERPETUALS.
The following at $10.00 per 100: Alfred Colomb, Anne de Diesbach, Baby Rambler, Clio, Coquette des Alps, Frau Karl Druschki, Gen. Jacqueminot, Magna Charta, Margaret Dickson, Mme. Gabriel Luizet, Mrs. John Laing, Marchioness of Lorne, etc.
Ulrich Brunner.....$13.00 per 100 **American Beauty**.....$15.00 per 100

GRAFTED ROSES.
For April and Later Delivery. Our Grafted Roses have given extra good satisfaction, and we are already booking large orders for later delivery. **Varieties: Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley.** Price: $12.00 per 100; $100.00 per 1000.
Order now and plants will be shipped when instructed.
JACKSON & PERKINS COMPANY, Newark, New York

SUCCESS WITH CHRYSANTHEMUMS
Depends upon four important factors: **Varieties grown,** quality of stock, cultural methods and market price. If the first two are carefully considered, the others are easier controlled. Our hobby is the **BEST COMMERCIAL KINDS.** These we grow in quantity, and the quality of our stock is unsurpassed.
We also grow those suitable for any other purpose.
Let us have a list of your wants before placing your order.
ELMER D. SMITH & CO., Adrian, Mich.

Dreer's Tuberous Rooted Begonias

The Begonias and Gloxinias which we offer are grown for us by an expert who has made a specialty of this class of stock for many years, and there is no better or finer strain on the market.

BEGONIAS, Singles in separate colors: Scarlet, crimson, white, rose, yellow and orange, 40c per doz., $3.00 per 100, $25.00 per 1,000.

BEGONIAS, Singles in Choicest Mixture: 35c per doz., $2.50 per 100, $22.00 per 1,000.

BEGONIAS, Doubles in separate colors: Scarlet, rose, white and yellow, 65c per doz., $5.00 per 100, $40.00 per 1,000.

BEGONIAS, Double in Choicest Mixture: 50c per doz., $4.00 per 100, $35.00 per 1,000.

SUN-PROOF BEGONIA, Duke Zeppelin: $1.25 per doz., $8.00 per 100.

SUN-PROOF BEGONIA, Lafayette: $2.00 per doz., $15.00 per 100.

FRILLED BEGONIAS, in separate colors: Scarlet, white, pink and yellow, $1.00 per doz., $7.00 per 100, $60.00 per 1,000.

For a full line of seasonable stock, see our new wholesale list.

HENRY A. DREER, Philadelphia, Pa.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World.

SANDER, St. Albans, England.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties. Dendrobium Wardianum, D. crassinode D. primulinum, D. thyrsiflorum and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, SECAUCUS, N. J.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100: extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each. $7.50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,

225 W. 16th St., DAVENPORT, IOWA

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.

Cinerarias, 4-inch ....$5.00 per 100
Pansies, fine plants .... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

Neph. Whitmani

2¼-inch ....$ 5.00 per 100
3½-inch .... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

PREPARE FOR EASTER

An Immense Stock of Choice Easter Plants Now Ready.
Blooming Easter Week or Before if Desired.

"From whom shall we purchase our Easter supply this sseaon?" That seems to be the cry all over the country. "We have tried so many already. I know what I am going to do" some sensible man says. "I shall go back to Godfrey Aschmann. He is the best and most reliable man in the business. What he advertises he has and there is no bluff about it, I tell you his usual stock of **Azaleas** can't be beat, and the **Lilies** he has this spring are the finest I have ever seen. No wonder. He imports them direct from Japan. He has a friend in Japan who looks after his interests and sends him the cream of Japan's plants. He has enough to supply all, and I tell you no lie when I say that his other plants, such as **Hydrangeas, Cinerarias, Spireas, Ficus, Araucarias, Palms, Hyacinths, Tulips, Daffodils, Etc.,** are of such excellent quality that they will make a man's mouth water, and they are so remarkably cheap that we often wonder how he can do it."

Araucaria Excelsa, 5½ to 6 in. pots. 3, 4 and 5 years old, 4 5, 6 and 7 tiers, from 18to 25 to 30 in. in height. 60c. 75c. $1.00 to $1.25.

Araucaria Robusta Compacta and **Excelsa Glauca,** specimen plants, small stock, the same in width as in height. 6-in. pots. 4 to 5 years old, 6 7 and 8 in. pots. 3. 4, 5 and 6 tiers 20 to 25 to 30 in. high. $1.50 $1 75 to $2.00 each.

Azalea Indica. We are headquarters for this well known Easter novelty. Three houses full of our direct importations: grown under contract for us in Belgium. Only the best well known American varieties are raised. Mme. Van der Cruyssen, chuck full of buds. Deutsche Perle, Simon Mardner, Niobe, Empress of India, Vervæneana, Helena Thielman. De Schryveriana Dr. Moore. Illustre, Apollo etc., double varieties. Price: 50c, 60c, 75c. $1.00, $1.25, $1.50, $2.00 to $2.50 each.

Begonia new improved Erfordi, 5-in., $2.00 per doz ; **Begonia Flambeau** 5-in $2.00 per doz

Spirea Gladstone 6-in. pots, 40c 50c. 75c; Japonica Floribunda Grandiflora, 6-in., 25c to 35c.

Primula Obconica, 5-in pots, $2.00 per doz.

Easter Lilies, Lilium Multiflorum, raised from fine 10-in. bulbs: in fine condition: can meet all wants: medium height 6-in. pots, 10c per bud; 5 buds and upwards to a plant: under 5 buds, 12c.

☞ Secure your order early.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot $2.50 per doz. pots.

Hyacinths, 4 best colors. King of the Blues, Grand Maitre (light blue). La Grandesse (best white), Gertrude (best pink), 4-in. pots, $12 00 per 100. Now outside in cold frames. Two weeks will force them into bloom.

Asparagus Plumosus Nanus, 3-in., $5.00 per 100: 4-in.. 10c.

Hydrangea Otaksa, in bud, 6-7 in. pots, 35c, 50c, 75c to $1.00 each.

Cineraria Hybrida, best strain. 4-in. pots, $10.00 per 100: 5½ to 6 in. pots, just right for Easter. 25c, 35c, 50c.

Areca Lutescens, 4-in, pots, three plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in pots 25c; 30c, 40c to 50c.

Boston Ferns, 6-in pots 50c: 7-in. pots. 75c: $1.00 to $1.25: 8-in. pots, $1.50.

Scottii Ferns, 5½-in. pots. 40c: 6-in. pots, 50c: 7-in. pots, 75c to $1.00: 8-in. pots. $1 50.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c. $1 00 to $1.25: 9-in pans, as big as a washtub $1.25 to $1.50.

Neph. Amerpohli, 5¼. 5½ to 6 in. pots, 30c, 40c and 50c.

Kentia Belmoreana, 5 good leaves. 5¼ to 5½ in. pots, 25 to 30 in high, 50c to 60c: 4-in., 35c.

Kentia Forsteriana, 6 to 7-in pots, 25, 30, 40 to 45 in. high, 75c, $1.00 $1.25, $1.50 to $2 00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c to 60c.

Jerusalem Cherries for Washington's birth day, large plants, full of buds, 6 to 6½in. pots, 35c-50c, 75c.

Moonvines (Ipomœa Multiflora), best white Moonvine for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

Have an Immense Stock of Easter Plants.

Please state if in or out of pots.

☞ All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., Philadelphia. Pa.

Importer, Wholesale Grower and Shipper of Pot Plants.

Start Your Season's Business Right

by adv° sing now in this journal. Don't delay. The best orders are placed early with advertisers in the AMERICAN FLORIST.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in. $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in. pots, $2.50; 3-in., $5.00 per 100. Mme. Salleroi, 2-in. $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-inch, $2.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order.

GEO. M. EMMANS, NEWTON, N. J.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Geraniums, single and dbl. Grant, Buchner, etc., 2-in. 2c. **Ageratum**, 2-in. 2c.
Asparagus Sprengeri, Vinca Alba, Cuphea, Swainsona, Dbl. Alyssum, Abutilons, Alternanthera, Coleus, 2-in. 2c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea**, 75c; **Paris Daisy**, white, yellow; **Swainsona**, alba, $1.00; **Dbl. Petunia**, 10 kinds, $1.00; **Heliotrope**, $1.00; **Vinca Var.**, 90c., $8.00 per 1000; **Alternanthera**, 3 kinds 50c; **Ageratum, Coleus**, 60c., $5.00 per 1000; **Artillery Plant, Hardy Pinks**, 75c; **Flowering Begonias**, $1.25; **Fuchsias** 8 kinds $1.00; **Salvia**, Splendens, Bonfire, 90c per 100; **Parlor Ivy**, 75c; **Stevia**, 75c; **Verbenas** 60c
Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

PANSY PLANTS.

100 000 large flowering from field beds, 50c per 100; $2.50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

VERBENAS 70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus**, 70c per 100, $6.00 per 1000.
Daises, Heliotrope, Salvias and **Alyssum**, dbl., $1.00 per 100; $8.00 per 1000. **Petunias**, dbl. $1.25 per 100; $10.00 per 1000. **Ageratums**, 60c per 100; $5.00 per 1000. All rooted cuttings.
GERANIUMS, from 2¼-in. pots, at $2.50 per 100; $22.00 per 1000.
Express prepaid. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias**, 5 kinds, 90c; **Pilea**, 70c; **Alternanthera**, red and yellow, 45c; **Vinca Variegated**, 70c; **Ageratum**, blue 50c; **Heliotrope**, 80c; **Dbl. Petunias**, $1.00 per 100. Cash. If by mail add postage. **Primula**, Obc. Grandif. Lilac, 2¼-in., strong stock. $1.75 per 100; 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000; 2-in., $16.00 per 1000
No order taken for less than 1000.

Drake Point Greenhouses, Yalaha, Florida

VERBENAS

62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection	$ .75 per 100;	$ 6.00 per 1000
Plants, our selection	2.50 per 100.	20.00 per 1000
Rooted Cuttings, purchaser's selection	.90 per 100;	8.00 per 1000
Plants, purchaser's selection	3.00 per 100;	25.00 per 1000

Carnations

All the Best New and Standard Varieties. Send for circular.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS.

We have an immense stock of fine plants from 2-in. pots for immediate shipment, at prices running from $2.00 per 100 up to 50c. each. We will send 1000, 50 each of 20 good varieties, our selection, for $18.50. Our Special Geranium Catalogue describes upwards of 250 varieties.

Lobelia, Kathleen Mallard, Double Blue	$2.00 per 100	
Salvia, Bonfire	$2.00 per 100;	$18.50 per 1000
" Zurich	3.00 per 100;	22.50 per 1000
Alyssum, Dwarf, double, fine for pots	$2.00 per 100	
Cineraria, Maritima Candidissima	2.00 per 100	
Centaurea Gymnocarpa	2.00 per 100	
Ageratum, Stella Gurney, Inimitable	2.00 per 100	
Hardy Pompon Chrysanthemums	2.00 per 100	
1000, 50 each of 20 good kinds, our selection	$18.50	

We also have a general line of **Bedding Plants.** Send for catalogue. Only to the trade.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

Large, Handsome Ferns for Easter

Very Choice Decorative Plants.

5-inch	**Boston** and **Piersoni**	$25.00 per 100
6-inch	" " "	40.00 per 100
7-inch	" " "	60.00 per 100
8-inch	" " "	80.00 per 100
6-inch	**Scotti** and **Elegantissima**	75.00 per 100
4-inch	**Asparagus Plumosus**	8.00 per 100
5-inch	" "	12.00 per 100
6-inch	" "	18.00 per 100
4-inch	" **Sprengeri**	7.00 per 100
5-inch	" "	10.00 per 100
6-inch	" "	15.00 per 100

MOSBAEK GREENHOUSE CO., Onarga, Ill.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

THE WHILLDIN POTTERY COMPANY
THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

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Latest Improvements
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Wittbold Cement Bench Construction
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Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.
McCRAY REFRIGERATOR CO.
960 Mill Street, KENDALLVILLE, IND.

Cleveland.

EVERYTHING SELLING.

The pre-lenten season was probably the best the trade has experienced for several years. With the exception of two weeks all stock has cleaned up at satisfactory prices since the first of the year; it is true that a number of the growers have been off crop, still the demand has been far greater than heretofore, and we are sure that if the crops had been on we could have disposed of the stock to good advantage. Owing to the continued shortage of roses, bulbous stock is still moving nicely. We do not think there will be nearly as much bulb stock on the market this season on account of the caution the growers used in placing their orders, owing to last season's over-stocked market and the low prices these goods brought. Roman hyacinths and Paper White narcissi are about done for. The demand for lily of the valley, sweet peas, and violets, has been equal to the supply. Greens of all kinds are scarce.

It is evident that the plantsmen anticipate a record-breaking demand for stock this Easter; all are hustling around getting things in order for the busiest time of the year.

Frank Smith, from the firm of Smith & Fetters, is expected home some time during the coming week from his trip through the southwest.

A. Schmitt, Bratenahl, has a splendid assortment of flowering plants including azaleas, genistas, cyclamens, lilacs and primulas.

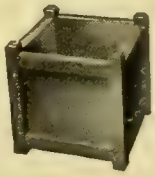
The Cleveland Florists' Exchange is receiving some extra fine Formosa lilies from the Lamborn Floral Co.

After a siege of sickness lasting several weeks Fred Griffin, Euclid avenue, is now convalescent. FORESTER.

Standard Flower Pots!
Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	$4.88	144 6-in., in crate,	$3.16
1500 2¼ "	5.25	120 7 "	4.20
1500 2½ "	6.00	60 8 "	3.00
1000 3 "	5.00	HAND MADE	
800 3½ "	5.80	48 9-in., in crate,	$3.60
500 4 "	4.50	48 10 "	4.80
456 4½ "	5.24	24 11 "	3.60
320 5 "	4.51	24 12 "	4.80
210 5½ "	3.78	12 14 "	4.80
		6 16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

MISSION PLANT BOXES.

Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.
WAGNER PARK CONSERVATORIES, Sidney, Ohio.

GEO. KELLER & SON,
Manufacturers of
Red Pots
Before buying write for prices.
361-363 Herndon St., CHICAGO, ILL.

H. BAYERSDORFER & CO.,
Florists' Supplies.
1129 Arch Street, PHILADELPHIA, PA
Send for our new catalogue.

The Kinney Pump
Mixes liquid manure with the water while watering. Fully guaranteed,
Sent prepaid for $2.00
The Hose Connection Co.
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SYRACUSE RED POTS
Spell "Prosperity"
For Nurserymen.
One season's trial is convincing proof of their superiority.
Get price list
SYRACUSE POTTERY CO., Syracuse N. Y.

DECORATING FLOWER POTS
A BUSINESS NEED
Send fifteen cents in stamps and we will mail you a cover, price list and booklet, explaining all about these great covers.
EVER READY FLOWER POT COVER CO.,
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146 Hughes Ave., Buffalo, N. Y.

Standard Flower Pots
Porosity and Strength Unsurpassed.
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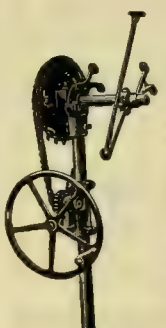

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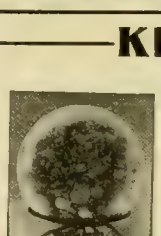

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Carnations, Lucille, Mrs. J. C. Vaughan, Mrs. Chas. Knopf, $12 per 100; $100 per 1,000. O. P. Bassett, $8 per 100; $60 per 1,000. White Perfection, Beacon, Winsor, $3 per 100; $25 per 1,000. Victory, $3 per 100; $20 per 1,000. Rose Pink Enchantress, $2.50 per 100; $20 per 1,000; Enchantress, $1.75 per 100; $15 per 1,000. Lawson, $1.50 per 100; $12 per 1,000. Lady Bountiful, $1.75 per 100; $15 per 1,000. White Enchantress, $3 per 100; $25 per 1,000. A. F. Longren, Des Plaines, Ill.

Carnations, 5,000 Beacon, $35 per 1,000; 5,000 Winsor, $25; 10,000 White Perfection, $25; 10,000 Rose Pink Enchantress, $20; 10,000 White Enchantress, $25; 2,500 Carnegie, $50; 2,000 Splendor, $50; 3,000 Pres. Seelye, $50; 2,000 Afterglow, $50; 3,000 Lawson-Enchantress, $50; 5,000 Enchantress, $25; 3,000 Lady Bountiful, $25; 1,000 Lloyd, $40; 2,000 Melody, $25; 2,000 Sarah Hill, $50; Defiance, $50; Dorner's Pink Delight, $100; Mrs. Vaughan, 2½-in., $12 per 100. Chicago Carnation Co., Joliet, Ill.

Carnations, Pink Delight, $12 per 100; $100 per 1,000. White Perfection, $3 per 100; $25 1,000. Winona, $6 per 100; $50 per 1,000. Enchantress, Rose Pink Enchantress, Winsor, Red Chief, $3 per 100; $25 per 1,000. Defiance, Afterglow, Sarah Hill, $6 per 100; $50 per 1,000. Beacon, Aristocrat, Lady Bountiful, White Enchantress, Victory, $3 per 100; $25 per 1,000. F. Dorner & Sons Co., La Fayette, Ind.

Carnations, White Perfection, White Enchantress, Winsor, Beacon, $3 per 100; $25 per 1,000. Afterglow, Lawson-Enchantress, Sarah Hill, $6 per 100; $50 per 1,000. Georgia, $12 per 100; $100 per 1,000. Victory, $2.50 per 100; $20 per 1,000. R. P. Enchantress, $3 per 100; $20 per 1,000. Enchantress, $2 per 100; $18 per 1,000. Mrs. Patten, $1 per 100; $10 per 1,000. Lawson, $1.50 per 100; $12.50 1,000. Weiland & Olinger, New Castle, Ind.

Carnations, Enchantress, Winsor, Kingston Pet, $2.50 per 100; $20 per 1,000. White Enchantress, $3 per 100; $25 per 1,000. White Lawson, Lady Bountiful, Boston Market, $1.50 per 100; $12.50 per 1,000. Pink Lawson, $1.50 per 100; $10 per 1,000. Var. Lawson, $2 per 100; $18 per 1,000. Beacon, $3.50 per 100; $30 per 1,000. Seelye, $4 per 100; $35 per 1,000. Newburgh Floral Co., 58 Second St., Newburgh, N. Y.

Carnations, W. H. Taft, $12 per 100; $100 per 1,000. Victory, $2.50 per 100; $20 per 1,000. Enchantress, $1.75 per 100; $15 per 1,000. Pink Lawson, $1.50 per 100; $12.50 per 1,000. White Lawson, $2 per 100; $18 per 1,000. Var. Lawson, $2.75 per 100; $25 per 1,000. Scheiden & Schoos, 60 Wabash Ave., Chicago.

Carnations, Enchantress, Nelson Fisher, $15 per 1,000. Rose Pink Enchantress, $20 per 1,000. Winsor, Beacon, White Perfection, $25 per 1,000. Superior, $30 per 1,000. White Enchantress, $35 per 1,000. J. D. Thompson Carnation Co., Joliet, Ill.

Carnations, Enchantress, Rose Pink Enchantress, White Perfection, Melody, White Lawson, $2.50 per 100; $20 per 1,000. White Enchantress, Winsor, Beacon, Victory, Aristocrat, Vesper, $3.50 per 100; $30 per 1,000. Splendor, $6 per 100; $50 per 1,000. East Sudbury Greenhouses, So. Sudbury, Mass.

Carnations, Defiance, $6 per 100; $50 per 1,000. Beacon, White Enchantress, Winsor, $3 per 100; $25 per 1,000. Aristocrat, $4 per 100; $35 per 1,000. Rose Pink Enchantress, Victory, $3 per 100; $20 per 1,000. Lawson, $1.50 per 100; $12.50 per 1,000. Jensen & Dekema, 674 W. Foster Ave., Chicago.

Carnations, Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson, Harlowarden, Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Carnations, Enchantress, Lady Bountiful, $2 per 100. Rose Pink Enchantress, Victory, White Perfection, Winsor, Aristocrat, $2.50 per 100. Perennial Gardens Co., Toledo, O.

Carnation Georgia, $12 per 100; $100 per 1,000. Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

Carnation Afterglow, $6 per 100; $50 per 1,000. R Witterstaetter, Station F. Cincinnati, O.

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Carnations, Victory, Winsor, White Perfection, R. C., stock the best. Write for prices. B. Willig, Poughkeepsie, N. Y.

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Carnations, Wood Bros., Fishkill, N. Y.

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Chrysanthemum Golden Glow. Eli Cross, Grand Rapids, Mich.

Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

Chrysanthemums. C. H. Totty, Madison, N.J.

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Cineraria hybrida, 2½ and 3-in., $4 and $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Coleus, strong R. C., 25 varieties, including the new trailer, 70c per 100. Cash. The Kaber Co., La Porte, Ind.

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Coleus, 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Coleus, 10 varieties, R. C., 60c; 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Coleus, R. C., 60c per 100; $5 per 1,000. Byer Bros., Chambersburg, Pa.

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Cupheas, R. C., 75c. Byer Bros., Chambersburg, Pa.

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Cyclamens, finest giant strain from 3-in. pots, nice plants, full of buds, 7c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

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Paris daisies, giant white and yellow, 2-in., 2c. Byer Bros., Chambersburg, Pa.

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Deutzia Lemoine, pot-grown, 7-in., 25c each; $2.50 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

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Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

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Ferns, Boston, 2¼-in., $3 per 100; $25 per 1,000; 3-in., $6 per 100; $55 per 1,000. Scottii, Whitmani and Elegantissima, 2¼-in., $5 per 100; $45 per 1,000; 3-in., $10 per 100; $95 per 1,000. Amerpohli, 2¼-in., $10 per 100; 3-in., $20 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Boston, 6-in., 50c; 7-in., 75c; $1, $1.25. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c to $1. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50. Amerpohli, 5½-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Ferns. Fine specimen plants ready for Easter. See our display adv. Mosbæk Greenhouse Co., Onarga, Ill.

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Feverfew, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

Geraniums. Nutt, $18 per 1,000. Alliance, Jacquerie, $20 per 1,000. Albion, $6 per 1,000. E. G. Hill Co., Richmond Ind.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

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Geraniums, 2¼-in., $2.50 per 100; $22 per 1,000. S. D. Brant, Clay Center, Kans.

Geraniums, $2 per 100. R. Vincent, Jr. & Sons Co., White Marsh, Md.

Geraniums, 2½-in., my selection, $3 per 100. Jos. H. Cunningham, Delaware, O.

Geraniums. A. M. Herr, Lancaster, Pa.

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Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

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Greens, fancy and dagger ferns, $1.75 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothœ sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $7.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

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Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

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Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, smilax, ferns, palm leaves, etc. John P. Scherer, Union Hill, N. J.

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Heliotrope, $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

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Heliotrope, R. C., $1. Byer Bros., Chambersburg, Pa.

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Hydrangeas. W. & T. Smith Co., Geneva, N.Y.

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Impatiens Hybrids, 2-in., 2c. Mt. Vernon, Indiana, Floral Co., Mt. Vernon, Ind.

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German iris, 25 named varieties, $2.50 per 100; mixed, $2 per 100. Elmhurst Nursery, Argentine, Kansas.

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Lilacs, pot-grown for forcing, Chas. X, Mme. Casimer Perier, Bertha Dammann, Mme. Lemoine, well branched, with buds, $1 each; $10 per doz. Vaughan's Seed Store, Chicago and New York.

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Lobelias. Kathleen Mallard and Crystal Palace, $2 per 100. R. Vincent, Jr. & Sons Co., White Marsh, Md.

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Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

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Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

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Nursery Stock. Forest, shade and ornamental trees, shrubs, seeds, etc., by the million at extremely low prices to close out. Balm of Gilead, Carolina Poplar, Red Bud (Judas tree), Tulip, Poplar, Sweet Gum, Ash, Ailanthus, Persimmon, Locust, Buckeye, Walnuts, Dogwoods, Hamamelis (witch hazel). Altheas, Amorphia, Yuccas, Calycanthus, etc.; also Tree Seeds. We have a large stock and are making low prices to clear land by April 1. Send for trade list. Forest Nursery Co., McMinnville, Tenn.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evrgreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Biota Aurea Nana, select stock, 20 to 24 inches, 35c; 24 to 30 inches, 40c; 30 inches, 50c; roots balled and burlaped, 5c extra. Other conifers at low prices. Griffing Bros. Co., Macclenny, Fla.

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Nursery stock, fruit and shade trees, shrubs, evergreens. W. & T. Smith Co., Geneva, N. Y.

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Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

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Palms, Areca lutescens, 4-in., 3 plants in pot, 25c; Kentia Bel., 5½-in., 25 to 30 ins., 50c to 60c each; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each; 5½-in., 20 to 25 ins., 50c to 60c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

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Choicest strain of seedling pansies, $3 per 1,000 or 50c per 100. Strong plants ready to transplant. Joy Floral Co., Nashville, Tenn.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

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Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

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Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

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Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

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Peonies, distinct named kinds and colors; strong roots, $1 per doz.; $8 per 100. F. A. Baller, Bloomington, Ill.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

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Petunias, Dreer's Superb Single Fringed, $2 per 100. R. Vincent, Jr. & Sons Co., White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, Marvel, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

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Poinsettias, 35c each; $4 per doz. Samuel A. Woodrow, 53 W. 30th St., New York.

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Primula Chinensis in bloom, 5½-in., $2.50 per doz. Obconica, 4-in., 10c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

PRIVET.

Privet, Amurense, true Amoor River privet, 18 to 24 inches, $12; 24 to 30 inches, $16; 30 inches up, $20 per 1,000 trimmed to planting height. Cash with order. Boxing free. Griffing Bros. Co., Macclenny, Fla.

AMOOR RIVER PRIVET, 300,000, all sizes. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

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Rhododendrons, assorted colors, our selection, 8 to 12 buds, $1 each; $9 per doz.; 12 to 18 buds, $1.25 each; $12 per doz.; 18 to 24 buds, $2 each; $20 per doz. Vaughan's Seed Store, Chicago and New York.

Rhododendrons, Jean Bracke, Lochristy, Belgium.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots, $2 per doz.; $12 per 100; 2-yr., 2 to 3 ft., budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots, $3 per doz.; $15 per 100; 3-yr., 3 to 5 ft., budded, $3 per doz., $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins; Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Flamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $2.50 per doz.; $16 per 100; $150 per 1,000; 2nd size, grafted, $2 per doz.; $12 per 100; $100 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 5-in., 35c each; $3.50 per doz.; $25 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Vaughan's Seed Store, Chicago and New York.

GRAFTED AND OWN ROOT ROSES.

Grafted 2½-in. pots	Per100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
My Maryland	$10.00	$90.00
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Killarney, Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

Roses, for forcing, field-grown, Crimson Rambler, Dorothy Perkins, Lady Gay, XXX grade, $12 per 100; No. 1 grade, $8 per 100. Hybrid perpetuals, A. Colomb, Anne de Diesbach, Baby Rambler, Clio, Coquette des Alps, Frau Karl Druschki, Gen. Jacq., Magna Charta, M. Dickson, Mme. G. Luizet, Mrs. Laing, Mar. of Lorne, etc., $10 per 100. Grafted roses; Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, White Baby Rambler, 2½-in., $1 per doz.; $6 per 100; 3-in., $1.50 per doz.; $10 per 100; 4-in., $2.50 per doz.; $20 per 100. Baby Dorothy, 3-in., $2 per doz.; $15 per 100; 4-in., $3 per doz.; $20 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, dormant field-grown, Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, F. Levet, Jacq., Prince C. de Rohan, Magna Charta, U. Brunner, Giant of Battles, etc., $16 per 100; $1.50 per 1,000. Dingee & Conard Co., West Grove, Pa.

Roses, own root. C. M. Niuffer, Springfield, O.

If you do not find what you need in our Ready Reference Department, write us about it.

Roses, new for 1909: White Killarney, 2½-in., own roots, $5 per doz.; $30 per 100; 250 for $70; 500 for $125; 1,000 for $250; grafted, $5 per 100 additional. My Maryland, 2½-in., own roots, $1.50 per doz.; $10 per 100; $90 per 1,000; grafted, $20 per 100; $150 per 1,000. Mrs. Marshall Field, 2½-in., grafted, $4.50 per doz.; $30 per 100; $250 per 1,000. Vaughan's Seed Store, Chicago and New York.

ROSES. Strong, well rooted cuttings, $2 per 100; $17.50 per 1,000: Bride, Golden Gate, Bridesmaid, Richmond, Uncle John.
H. W. BUCKBEE, Rockford, Ill.
Rockford Seed Farms. Forest City Greenhouses.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Am. Beauty, $8 per 100; $75 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, Bride, Maid, Chatenay, $2 per 100; $17.50 per 1,000. Perle, $2.50 per 100; $20 per 1,000. Alice Roosevelt, $7.50 per 100; $60 per 1,000. Weiland & Olinger, New Castle, Ind.

Roses, rooted cuttings, Perle and Kaiserin, $4 per 100; $35 per 1,000. Maid, Bride, Richmond, $2 per 100; $15 per 1,000. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses, Mme. Plantier, 2-yr., 3 to 4 ft., own roots, $6 per 100. Phila. Rambler, Crimson Rambler, 2 to 3 ft., $6 per 100; 3 to 4 ft., $8. Elizabeth Nursery Co., Elizabeth, N. J.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Rose White Killarney, $30 per 100; $250 per 1,000. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Roses, Am. Beauty, R. C., $3 per 100; $25 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Roses. White Killarney and My Maryland. A. N. Pierson, Inc. Cromwell, Conn.

Roses, 400 sorts, 2½ and 4-in. Leedle Floral Co., Springfield, O.

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Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses. Chas. H. Totty, Madison, N. J.

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Salvias, 5 of the best, R. C., $1 per 100; extra strong. Mosbæk Greenhouse, Onarga, Ill.

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Salvia splendens, Bonfire, R. C., 75c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

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CUCUMBER,	Arlington White Spine	.10	.80
"	Snow's Fancy Pickling	.10	.85
"	Buckbee's Rockford Pickle	.15	1.10
EGG PLANT,	Imp. large purple, spineless	.25	....
PEPPER,	Improved Ruby King	.18	1.70
"	Sweet Mountain or bull nose	.15	1.60
"	New Chinese Giant	.30	4.35
"	Celestial	.15	1.50
"	Large Red Cayenne	.12	1.50
TOMATO,	Buckbee's Beefsteak	.60	5.10
"	Buckbee's Earliest Market	.35	2.60
"	New Earliana, select	.35	2.35
"	New Early June Pink	.35	2.60
"	Chalk's Early Jewel	.35	2.35
"	Stone, Perfected	.16	1.70

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Weiland & Risch, 59 Wabash Ave., Chicago.

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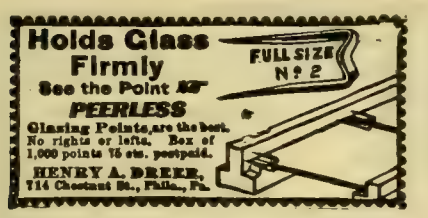

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Albany N. Y.

The Florists' Club held its fourth annual banquet February 18 at the New Kenmore, about 40 members being present. The floral decorations were in excellent taste and were contributed by the members who took great pride in the selections they made. President Fred Goldring assumed the duties of toastmaster until he was compelled to leave to catch a train, after which F. A. Danker officiated. Responses to toasts were made by John A. Howe, Jr., James H. Snyder, Rhinebeck, John McAllister, and others. The traveling representative of Van Zonnevelt & Phillipo, gave an interesting account of an exhibition that the growers of Holland are to hold this summer. The arrangements for the banquet were in charge of a committee composed of Patrick Hyde, Edward F. Meaney, W. C. King and Fred Henkes.

As a result of a conference held lately between official representatives of the Eastern Nurserymen's Association, the New York Florists' Club, New York State Fruit Growers' Association, the Western New York Horticultural Society, and the Orleans County Fruit Growers' Association with R. A. Pearson, state commissioner of agriculture, it was decided to take action against bringing the much-dreaded gypsy and brown tail moths into the state. A delegation headed by Commissioner Pearson called upon Governor Hughes in regard to the matter. The outcome is expected to be legislation authorizing a scientific contest for the eradication of both insects in the state.

Visitor: Stephen D. Green representing Bayersdorfer & Co., Philadelphia.

R. D.

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Springfield, Ill.

A. C. Brown has about 75,000 square feet of glass given over to the culture of cut flowers as well as geraniums, azaleas, palms, araucarias, etc. There are three 317-foot houses devoted to carnations. His new red carnation Sangamo is looking fine, of which there are about 1,000 plants. There is also a bench of carnation, Superba, and another of Governor Deneen (royal purple). In the rose section, Killarney, Richmond, Mrs. Ames, Uncle John and American Beauty are grown.

Miss Bell Miller has her carnations in excellent shape, growing principally Lawson. White Perfection, Bountiful, Beacon and Dorothy Whitney (yellow). Some fancy snapdragons are also grown here, and two plants of bougainvillea, which furnish an abundance of flowers which are used to advantage, especially for pulpit decoration.

A. C. Canfield, who grows almost exclusively for the wholesale trade, has an excellent stock of carnations, all of the leading varieties. Also Bride, Bridesmaid and American Beauty roses. Mr. Canfield ships his cut flowers to C. A. Kuehn of St. Louis.

Geo. M. Brinkerhoff arranged the flowers on the speakers' table for the recent Lincoln banquet given at the Armory when 800 persons were in attendance. The grouping of palms, ferns, etc., was by Geo. Van Horn and A. C. Brown.

Geo. Van Horn, proprietor of the Capitol Greenhouses, grows principally miscellaneous stock, including geraniums, begonias, palms and ferns. Some space is also devoted to carnations and roses.

R. T. Donnell grows the leading varieties of carnations, and his place is in excellent cultural shape. He ships on commission to the St. Louis market.

Carl Rauth supplies his retail trade with fine stock of his own growing, his house being devoted mostly to carnations, roses and some miscellaneous stock.

Geo. M. Brinkerhoff is a commercial grower, devoting his attention to carnations and pot plants. Azaleas are a great specialty of his.

Wirth & Gaupp have a fine range of carnations and an excellent stock of geraniums, begonias and ferns.

Colorado Springs, Colo.

The El Paso country club of this city demands something new or original at its annual ball and banquet, and the decorations put up by Hayden, of the Colorado Springs Floral Co., at the recent event, certainly may be considered along this line. The decoration in question signified a moonlight night in Dixie; the spacious and lofty hall was profusely covered with smilax and palms, the ceiling being completely hidden with southern smilax interlaced with several hundred small electric lights representing so many stars. A larger and more radiant globe of spherical form represented the moon and the reflection of all partially embedded in a sky of green, was very significant of the occasion and the directors of the club unanimously agreed that it was Hayden's best effort in many years. The mantels and portieres in the ladies' rooms were gracefully trimmed with southern smilax and wistaria with large artificial poppies grouped and scattered according to area of green foundation. Roses, carnations, violets, and other standard cut flowers were liberally distributed throughout the building.

Wm. Clark, the pioneer florist of this locality, is now a sojourner in south California taking a well-earned rest. Thirty-five years residence in an altitude of over 6,000 feet has a tendency to shatter the constitution of the strongest.

Carl Hagermeyer has purchased the retail department of the Knob Hill Greenhouses from Henry Monaghan and intends giving it his personal attention in the future. His headquarters are 118 North Lejon street.

John Smith has been very successful in violet culture this year; he is now growing a fine batch of calceolarias for Easter, which is a difficult proposition in this dry climate.

Henry Monaghan has had his annual visitation of grip and is now convalescent from a severe attack.

Business since the holidays has been satisfactory.

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76-78 Wabash Ave., CHICAGO

Madison, N. J.

Calanthe culture was the subject discussed at the monthly meeting, February 10, of the Morris County Gardeners' and Florists' Society; Percy Herbert was essayist. He treated only on the deciduous species, as these are they mostly grown here for the trade around Christmas. Mr. Herbert grows quite a lot of these beautiful orchids and grows them well. He told us how he did it from start to finish, and certainly made the thing look easy. A rising vote of thanks was tendered him. The March meeting, as has been our custom, will be devoted to carnations. Carnation night is only second to one of the nights of our annual chrysanthemum shows, and we are going to try to make March 10 a second smasher. The growers of novelties have always done us and themselves credit, and we sincerely hope they will come up strongly this year. There are lots of fine candidates for public favor, and nothing advertises like putting them under the eye of the people. We will take care of the standard varieties ourselves with the help that Orange will give us. The Orange brethren had some rattling carnations shown at their smoker, and they had other things there, too. The delegation from here was royally entertained on that occasion. We are to have an essayist of national reputation.

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CALENDERS, POST CARDS, ETC.,
Wood Labels and other supplies.
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VREDENBURG & CO.,
ROCHESTER. NEW YORK

The Regan Printing House
LARGE RUNS OF
CATALOGUES
OUR SPECIALTY
WRITE FOR FIGURES.
83-91 Plymouth Place, CHICAGO

Louisville.

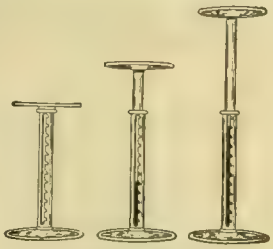
STOCK SELLING WELL.

Business conditions the past week were very satisfactory, stock in nearly all lines selling well. Roses still remain somewhat scarce. They are of fair quality and sell well. Carnations of good quality have been very scarce. They sell unusually well. Violets, lily of the valley, sweet peas, etc., have a fair demand, and the supply is adequate. There is now plenty of bulbous stock, which sells satisfactorily. Green goods, with the exception of smilax, are very scarce. Other stock can be had in satisfactory quantities, and finds a satisfactory demand.

The regular monthly meeting of the Kentucky Society of Florists will be held Tuesday night, March 2, at Fred L. Schulz's store. A good attendance is again looked for. The growers who could not ship their novelties for the last meeting will probably be able to do so at this time. Their efforts will be appreciated. Robt. Miller will have a paper on growing cyclamens, which should prove very interesting.

F. L. S.

NEWPORT, O.—Miss Cora Powell, daughter of the florist at Longview asylum, was married February 11 to Chas. Bateman.


The Moore-Livingston Plant Stands.

Use These in Your Decorations
With the three sizes you can obtain
All Heights, from 6 to 48 inches.
No other stand is so simple and easily adjusted.
Write or wire us if unable to obtain the stands locally.
The Moore-Livingston Co., Makers, Patentees, Lansdowne, Pa.
PHILADELPHIA OFFICE:
Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

WIZARD BRAND MANURES
Dried, screened and packed in bags of 100 lbs. each
PULVERIZED SHEEP MANURE
Pure - Uniform - Reliable
A strong and quick acting manure highly recommended for carnations and chrysanthemums
SHREDDED CATTLE MANURE
Easy to Handle and Apply
Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.
Ask your supply man or write for circulars and prices.
The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO
Mention the American Florist when writing

THE BEST Bug Killer and Bloom Saver
For PROOF Write to
P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

Carman's Antipest
INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.
This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.
PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Unrivalled for all Purposes.
THOMSON'S
Vine, Plant and Vegetable
MANURE

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES
The result of many years' Practical Experience. Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants. Freight paid on quantities.
Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.
WM. THOMSON & SONS, LTD.,
Tweed Vineyard, Clovenfords, Scotland.
Sold by the leading American seedsmen.

Green Flies and Black ones too
are easy to kill with
The Fumigating Kind Tobacco Powder
$3.00 per bag 100 lbs.
Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?
THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

"Natural Guano"
PULVERIZED SHEEP MANURE
Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
Write us for prices and particulars.
Natural Guano Company, Aurora, Ill.

The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

NORTH TONAWANDA, N. Y.—The King Construction Co. has found it necessary to establish a distinct department for the handling of all matters pertaining to sales. H. E. Bates who is well known among growers in the east, has taken charge of this new sales department. Mr. Bates has recently been with John A. Payne of Jersey City, N. J. Previous to this, he was with Hitchings & Co. and with the Pierson-Sefton Co. The King Construction Co. aims to keep its organization up-to-date and the organization of this department is in line with this policy, and will enable the company to quote promptly in reply to any inquiries for their construction or other goods.

Cement Gutters.

ED. AMERICAN FLORIST:—

We quote the following from one of your contemporaries. "Cement gutters and benches versus those of other material, furnish a topic that is often heard about lately. Winter weather has caused much havoc with the cement work at different establishments." Since we have recommended cement gutters to those who saw the same at our place during the carnation meeting, as well as to a number of friends who wrote in regard to it, we wish to say, that our cement gutter came through the severe winter weather in perfect shape. We are so well pleased with our experiment with a real concrete gutter (cement and gravel, wet) that we are now casting 1,200 lineal feet of the same kind of a gutter.

Anyone familiar with cement work can make these gutters, and the outlay for forms, cast iron attachments and reinforcements are small. While we are always glad to answer inquiries regarding this gutter, we wish to say, that drawing and instructions for making the same will be published, if further tests on a larger scale affirm our expectations. We also wish to say that notwithstanding careful inquiries we failed to locate any cement greenhouse walls in this county, with which the winter weather had "caused much havoc," nor, we are glad to state, was anybody in this vicinity unfortunate enough to have his cement benches exposed to the winter weather.

SMITH & YOUNG CO.
Cumberland, Ind.

Defective Heating Apparatus.

ED. AMERICAN FLORIST:—

We have a house on the southwest corner of our plant that is piped to heat to 58°. It fails to reach the desired point by 10° when all other houses are at a correct temperature. We think the fault lies in the fact that four 4-inch feeds are taken off the 7-inch main flow practically all together, one of these 4-inch being the feed for the above mentioned house. This 4-inch feed has to travel 70 feet west and then 50 feet south before dropping into coils. It also feeds three radiators in workroom. Do you think that by taking this 4-inch direct to the boiler we could get desired results? M.

From the diagram and the description it is evident that the 4-inch flow to the southwest house not only has much the longer run but that it is carrying a much larger radiation than either of the other flow pipes. Although nothing can be told from the date furnished it would also seem likely that the southwest house is not as heavily piped as the others, which would increase the difficulty of obtaining the temperature desired.

Provided the large main by which the smaller flow pipes are supplied, is sufficiently large, as seems to be the case, it will not help matters very much to connect the flow and return leading to the southwest house directly with the boiler, as this would still further increase their length and it would seem better to try one or all of the following changes: (1) If it is possible to elevate the coils in the southwest house this should increase the circulation and consequently afford more heat. (2) Try choking off the circulation in the other mains, which are now supplying only about two-thirds the radiation in the southwest house and the workroom. (3) If this does not afford the desired temperature run a separate flow and return (2 ½-inch) either from the large mains or directly from the boiler, to supply the radiators in the workroom. This will tend to equalize the radiation upon the 4-inch flows although the one to the southwest house will still be at a disadvantage on account of its being of greater length than the others. It is possible that the circulation can be controlled by partially closing the valves on the other flows and if so this will be a simple way out of the difficulty.

L. R. T.

BOILERS

HEATING PLANTS and SUPPLIES at Wrecking Prices.

you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at forced sale **50,000,000 ft. of Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free. Our Greenhouse Engineer will furnish you with an estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

GREENHOUSE BOILERS. A complete line of Locomotive, Fire-box Boilers, Kroeschell Greenhouse Boilers, Return Tubular Boilers, Cast Iron Sectional Boilers, etc. Some are rebuilt, some brand new, but all are in first-class condition for further service.

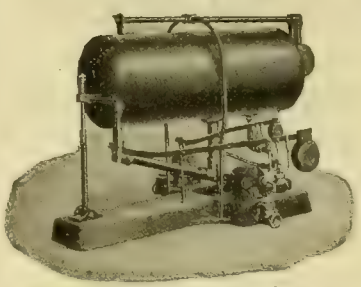
BOILER FLUES. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

BOILER TUBES 20 carloads of 4-in. Boiler Tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

Ask for Our Latest 500-page Catalogue No. 47. It is the greatest book of bargains ever issued. Send for it To-Day. You save 30 to 50 per cent by dealing with us.

The Chicago House Wrecking Co.
35th. and Iron Sts. Chicago.

"DETROIT" RETURN TRAPS



"Detroit" Return Trap. (Patented)

Will keep any Steam heating system free from water-making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. DETROIT, MICH.

CHRIS. PFEIFFER BOILER CO.,

66-68 Michigan Street, CHICAGO.

We build a special steel hot water boiler shipped ready for operation. No brick required.

Phones; Main 4361. 4399.

Mention the American Florist when writing

STEEL Return Tubular BOILERS

The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

JOHNSTON HEATING CO.,
138 East 31st St., NEW YORK.

Mention the American Florist when writing

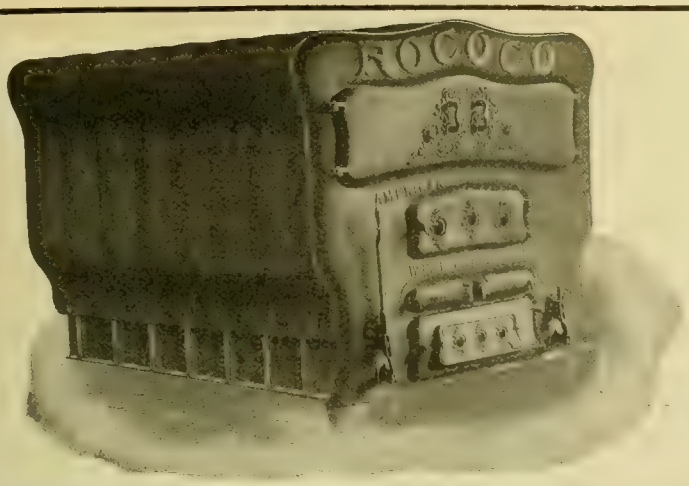
STUTTLE'S *Patent Pipe Clamp*

Cheap as the cheapest joint in use, and 100 per cent. superior. For particulars write the inventor and patentee.

HENRY STUTTLE, Batavia, Ill.

Mention the American Florist when writing

IN the advertisement of the Camp Conduit Co., in our last week's issue, on the last cover page the price should read, $19 per 100 square feet, not $14 as there printed.



SAVE EVERY CENT

The ROCOCO

Steam or water boiler will do its share.
A boiler built for practical florists.
Boilers Perfect... ...Prices Right.

American Heater Fdy. Co.

West Chicago, Illinois.

Sometimes You Forget

That we make every part of a greenhouse but the glass—that we sell any part.

You remember us on the bigger things, but often it never enters your head to think of sending to us for a tub of putty or a few fittings.

But you ought to— and here's why:

Our sole business is manufacturing every part of a greenhouse. We give it our undivided attention.

Everything we make is made with an exact knowledge of just what conditions it must meet, and that is why an ever increasing number from all over the country are continually sending us their orders for just the smaller things.

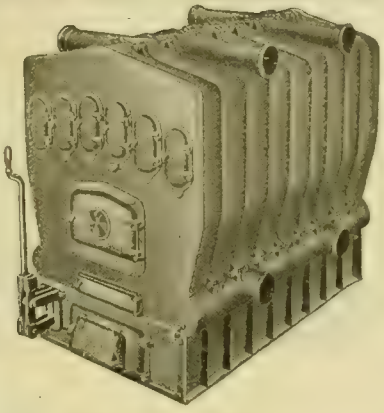
You know how well we do the big things, and if you will only stop to think, it is just because of well done little things, that it is possible for us to do so thoroughly and enduringly the big things.

So whether white lead, glazing nails, bench fittings, it matters not what, first write to

LORD & BURNHAM CO.

Main Sales Office:
1133 Broadway, New York.

Boston: 819 Tremont Bldg.
Philadelphia. 1215 Filbert St.



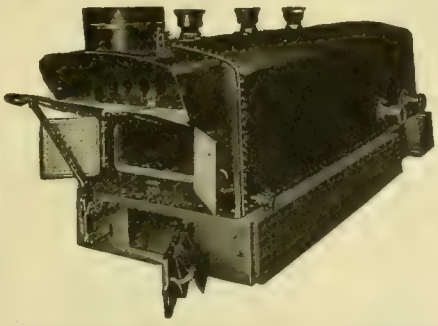
What We Know On Heating

WE were heating engineers many years before we were greenhouse builders, which means no concern has had as long or an equal heating experience. This experience of ours will save you troubles — and money.

Write us.

Hitchings & Company

1170 Broadway New York



SEE HOW WELL THEY LIKE ME

150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906.

Ask for list of users and get acquainted with the men who know.

Catalogue and prices on application.

KROESCHELL BROS. CO., 45 Erie St... ...CHICAGO.

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

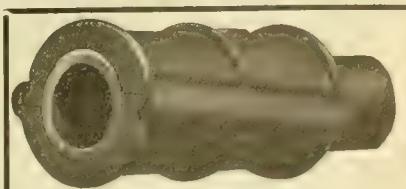
No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

S. WILKS MFG. CO.,

3525 Shields Ave. CHICAGO.



PATENT APPLIED FOR.

Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM. MOLL,

1664 Columbus Rd., CLEVELAND O

NEW CASTLE, IND.—Wm. Dittman and L. A. Jennings are in Florida on a winter vacation trip.

Louisiana Red Cypress

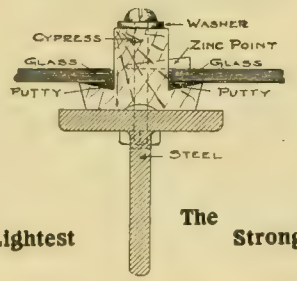
As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

The Payne Steel "T" Bar Greenhouses

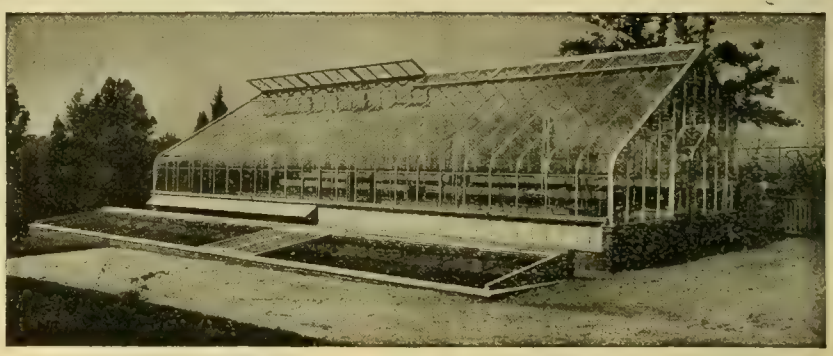


The Lightest The Strongest

Half full Size.

HOUSES of this type constructed with both curved glass eaves and straight glass eaves. Least amount of shadow. Least amount of wood. No drip. Greatest durability.

JOHN A. PAYNE,
Greenhouse Designer and Builder,
260-274 Culver Avenue,
JERSEY CITY, N. J.



They Are Perfectly Ventilated

by an easily operated apparatus that opens the sash at the ridge or the sides under the benches.
Of a special superiority is our method of under the bench ventilation, and we will gladly tell you why. Lightness, strength, durability, simplicity, attractiveness, increased productiveness, and low cost of maintenance, are other points to keep in mind.

The ideal construction for private estates, parks, public institutions and florists' showrooms.

Send for Catalog.

U-BAR GREENHOUSES

PIERSON U-BAR CO.
DESIGNERS AND BUILDERS
1 MADISON AVE., NEW YORK

Nashville.

STOCK PLENTIFUL.

Business has been rather quiet for a week or so past, with an abundant supply of flowers of every kind on hand. Some of the finest azaleas of the season are to be seen in the retailers' windows. The spring flowers, still from under glass, however, are coming in. Emperor, Empress and Von Sion narcissi and violets are abundant.

NOTES.

Geny Bros.' violets are coming in abundantly. They are enthusiastic over their new plant, some four miles from the city, which they are constantly adding to, an already fine range of houses. It is not their intention to abandon their city gardens, located right in the heart of the city and very convenient to their business, but to use as a supplemental supply, and for the growing of roses.

The Joy Floral Co. completed, a short time before January 1, two more splendid new houses, 32x400 feet long. It was too late, when finished, to put in roses, so they put in a stock of sweet peas, which are now on the market.

M. C. D.

LUMBER

for Greenhouse Benches, Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in special position to furnish **"PECKY" CYPRESS;** everything in **PINE** and **HEMLOCK BUILDING LUMBER.** WRITE FOR PRICES.

Adam Schillo Lumber Co. Cor. Weed and Hawthorn Sts., **CHICAGO.** Tel. Lincoln 410 and 411.

Send Your Advertisements Early.

THE BROKEN COLUMN.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, MARCH 6, 1909.** **No. 1083**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.: W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August, 1909

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N.Y., March 17, 1909. AUG. POEHLMANN, Chicago, president; BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., president; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.
ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect.

Buds.

Early buds, early buds,
Waken not so soon;
Winter frosts, winter floods,
Hide behind the moon.
Brave not the bleak air,
Tempt not the frost;
Wait for the meek air,
Wait—or be lost!

Tender shoots, tender shoots,
Cover up your eyes;
Winter rime round your roots
Ambushed softly lies.
Dare not the white mist,
Breathe not his breath;
Silent the night mist
Steals—to your death!

Dainty green, dainty green,
Back and dream again,
Winter's wrath, winter's spleen
Ye will brave in vain.
Once in the cold blast
Hope gaily hied.
Fate blew a bold blast,
Hope shrank and died!

—Gardening World.

Greenhouse Construction.

III.—BY W. W. COLES.

Water Supply.

For water supply, if connections can be made to a water company that gives a fair pressure, it is often the cheapest and surest. But where this cannot be done a water plant must be put in. Sometimes the supply can be obtained from a stream or lake with the advantage of a short lift, but a good well has the advantage of furnishing water that can be used for drinking and all other purposes. Gasoline engines are now doing good service pumping water. They do not necessitate the keeping up of a fire and the heating up of the place in summer which steam pumps do, and they have now become very reliable and are fairly well understood. There are now water systems with pneumatic tanks that can be placed underground or anywhere else that it is desired.

The tank furnishes a reserve supply under air pressure, and does away with the elevated tank with its dangers of freezing, etc. Whether or not the same service would be more expensive under this system I do not know, but I would give it careful consideration. The water pipes to the houses should be large and with as few turns as possible. Spigots for ¾-inch hose spaced for 50-foot lengths of hose seems to be the accepted practice. There should be spigots in every walk so that each side of every bench can receive proper attention. The water pipes should be laid before the benches are built, and should be of galvanized pipe; they may be buried just under the level of the ground. A handy arrangement for spigots is to have the upright pipe come above the bench about a foot and far enough back in the bench so that the spigot clears the walk an inch or two. This brings them up where they are easy to handle and still out of the way of anything in the walk. One of the patent hose connections that snap and unsnap in a second should be used. It takes too long to screw up and unscrew every hose connection.

Manure Water System.

If the place is to be large enough, a manure water system should be installed. This may be connected into the other water pipes or a separate system of piping may be put in. Of course, it is cheaper to use the same pipes, but there is always danger of typhoid fever in case some one should drink out of the spigots, and when the fresh water is turned in there is danger of syringing with the manure water left in the pipes, which will at least give a mussy appearance if it does not ruin blooms. For making the manure water a concrete tank is built, divided in the center by a screen. On one side the manure is dumped and the water run in, and on the other side the manure water is pumped out. A pump can be installed and operated by the same power as the fresh water pump.

Heating.

If the place is to be of fair size or if the prospects are that it will be, steam heating will probably be decided upon. If the gravity system is to be used the boilers should be set low enough so that the lowest point in the returns will be two feet above the water line. Steam traps are used a great deal now. They permit the boilers to be located higher—on a level with the houses, in fact—and insure a good circulation. They have the disadvantage of being a mechanical device, while old Mother Nature never fails to pull through gravity. But the mechanical perfection of traps nowadays makes them fairly reliable. Where the boilers cannot be lowered there is no question about using a trap or some other similar device. Where they can be lowered it is a question; even in this case, though, it is claimed that a trap improves circulation and saves fuel. The conditions peculiar to the job and personal taste must again decide.

The flow pipe from the boilers to the houses should be as large as will ever be necessary for all that may be taken from it, and provision in the way of Ts and plugs should be made at every place where it is possible that a connection may be wanted. For piping the houses

there are several systems. There is the one pipe system which has no returns. The pipes are large and steadily rise all the way from the boiler, with an air valve on the end. The steam comes up and the drip runs back through the same pipe. On a place where this is installed it gives excellent satisfaction, but when this firm built a new range a different system was put in. There is the system of hanging all the pipes to the roof, but this is not much in favor. The most approved practice is to hang the pipes on the walls and under the benches. Sometimes a large flow is run overhead and the returns brought back underneath. This has the disadvantage of having the flow valves at one end and the return valves at the other, or, if no flow valves are used, the pipes fill up with water when the return valves are shut off, which keeps the pipes warm longer than is intended, and makes it hard to maintain a water level in the boilers. Another plan is to have the flows start at the center of the houses and run to a common return at the ends, with a check valve in the end of each return. This permits all the operating being done at one place for the flow valves at the center of the house are all that have to be handled. This is all right if a trap is used, so that no air valves are required.

Pipe Arrangement.

Under most conditions, perhaps the handiest arrangement is to have the coils start and return to the same place, the center of the house for long houses, and the end for short houses. This is where the 400-foot house works out so nicely. This makes coils 200 feet long on each side, and if hung so they swing easily and four inches allowed for expansion they will give no trouble. If longer coils are used more care must be used in allowing for expansion. Of course, for short houses such as are advisable for a plant business, the pipes will start from the ends of the houses next the shed and not from the center. Under the benches the flow starts up next the bottom of the bench, gradually drops to half way to the ground at the end, where swing joints are made for expansion, and gradually drops again on the way back, so that it ends just above the ground. The pipes on the wall are handled the same way.

Boiler and Work Rooms.

The boiler house or pit should be built so that more boilers can be readily added at any time. Provision for plenty of coal storage should be made; this also should be made so that it can be enlarged at any time. Then there is a work room to be provided, a potting bench, pipe-fitting bench, office, flower cellar, places for the storage of pots, lime, tobacco stems, etc. Of course, all these vary with the character of the place, but they must all be considered together to get their proper relation and proportion. And they must all be arranged so they can be enlarged when necessary.

Now, the object of these notes is not to tell how to build or what style or what system to use. Even where the writer has expressed a choice it is not urged on anyone else unless he can figure it out to be the best under his conditions. The idea has been simply this: to enumerate the many considerations that enter into building, and to urge a careful consideration of all of them before any part is attempted. When the whole job is planned each part can be done at the most advantageous time, eliminating the undoing of one job to get something else done that should have been done first, or the doing of something at an added expense, because something else that has been done is in the way.

To sum up: Build on a well-drained location where good soil and plenty of water are available and where as many other advantages can be secured as possible. Plan the entire job allowing for expansion in every feature. Order all material early. Push the work of construction and be ready to plant in good season.

New Dwarf Dahlia Mignon.

We present herewith an illustration of the new dwarf dahlia, Mignon, being disseminated this year by Warnaar & Co., Sassenheim, Holland. The illustration was prepared from a photograph of an oil painting and may be taken as a correct likeness of the plant as it appears. It is offered in about six shades and these are not yet all named, but they will be before delivery. It is an entirely new strain of dahlia and will doubtless prove a very valuable bedding variety owing to its very dwarf habit and its early flowering. The plant grows only 14 inches high, commences to flower in June, and goes on until cut down by frost in autumn. The flower committee at Amsterdam last year awarded this valuable novelty five first class certificates and five awards of merit. It should become very popular both for bedding and cut flowers.

THE NEW DWARF DAHLIA MIGNON.

THE RETAIL TRADE

Easter Trade Suggestions.

One smile is worth a dozen frowns.

Preparation ahead saves many hours of rush and overtime work.

A good thing to remember is that individuality is always a winner.

Make an effort to be different from your fellow craftsman this Easter and you'll be surprised with the results.

You are going to see many strange faces in your shop this year. Meet them face to face and give them the glad hand and you will find that you have made some new customers.

An idea for the decoration of your windows for Easter week: Monday, azaleas; Tuesday, genistas; Wednesday, rambler roses; Thursday, lavender rhododendrons; Friday, lilies; Saturday, a mixed window. This will surely bring results.

Make all of your plant deliveries Friday and Saturday, giving them special care. This will leave the way open for the early delivery of cut flowers. Start all violet orders by 6 a. m., then they will be sure to be in time for church.

The regret over lost chances is one we always feel keenly. Every man recalls some business opportunity that he failed to embrace. Let this not be said of you after the Easter trade is over. Now that the Lenten season has started get the "idea bug" busy.

Fine Church Wedding Decorations.

The accompanying illustration shows the decorations at the Clark-Hun wedding in the cathedral of All Saints, Albany, N. Y., February 21, 1908. The decorations were by Eyres, the rood screen being covered with southern smilax, beech sprays, and Lilium Harrisii, the steps, with white lilac, white tulips, azaleas, and lilies. The choir stalls were decorated with lilies; azaleas were on each side of the communion table; and the altar was decorated with lilies. The home of the bride's parents where the wedding reception was held was decorated in the various rooms; one, with Killarney roses and Adiantum Farleyense, another with American Beauty roses and the breakfast room with White Killarney. R. D.

Wreath on Easel.

SEE SUPPLEMENT WITH THIS ISSUE.

There is something very attractive about a wreath on an easel and it is a subject that should be more frequently used at funerals. One reason is that such a wreath can always be placed in such a position that it shows to good advantage, while other designs are lost in the general mixup so common on these occasions. The wreath illustrated was composed of bronze galax, lily of the valley, carnations and mignonette mounted on cycas leaves and, as will be seen, makes a very beautiful design. But without laying ourselves open to the charge of being hypercritical we think the wreath could have been improved by being set higher on the easel and by working the ribbon knot in on the bottom, where the carnations and the cycas leaves join.

But probably a floral artist is never really satisfied with even his best work. After having put his whole soul into the finest piece of work imaginable there is a twist to a flower he would have liked to alter at the last minute when it was being dispatched or he thinks that his ribbon is a little too heavy or too light, or the color not quite what he wanted. But he learns a lesson—or should—from his failures or partial successes that is useful to him in future. There are so many lovely combinations and artistic blendings possible in flowers that there is no such thing as finality. And this is well, for were there such, all interest in the work and all aspiration to higher levels would cease. The fact remains, however, that this kind of wreath is very telling and effectual, giving satisfaction in nearly all cases without being unduly expensive to make. S.

LOWELL, MASS.—The hearing on the bill allowing retailers to sell flowers on Sunday, scheduled for February 24, was held over.

ATTICA, IND.—J. B. Klaws, formerly of Crawfordsville, has accepted a position with the Attica Floral Co. Mr. Klaws is a skilful designer and the company is fortunate in securing his services.

CHURCH DECORATION BY H. G. EYRES, ALBANY, N. Y.

Reminiscences of C. F. Klunder.

When C. F. Klunder first entered the flower business on Broadway, New York, during 1872, floral arrangements were in what may be termed a rather primitive state. The stiff and severe style predominated, a fashion imported from Europe's leading floral establishments. In fact, there was very little that appealed to the artistic temperament, a temperament we naturally associate with flowers.

Bouquets and baskets were made by means of broom corn and sometimes even the clumsy conventional stick was used to assist in placing the flowers in this form. Mr. Klunder at once set about creating something that would take the place of this conventional way of arranging flowers. He then conceived the idea of the loose arrangement of flowers. His first attempt to introduce this started with bouquets to be carried at a large reception given by one of New York's fashionable set.

It was an unusual departure and created the highest comment from all present and brought him in the floral limelight. The style met with pronounced success, and through the loyal interest displayed by one of New York's 400 in Mr. Klunder's ability it became universally popular. This was the first step of success reached after a few months of American business experience, Mr. Klunder being a native of Germany and scarcely able to speak the English language when his successful career on Broadway started. The introduction of this loose arrangement brought about an evolution in the floral trade and became quite the rage. The loose effect was also much used for ceiling coverings, floral wall pockets, floral curtains, mantel designs, etc., down to the tiniest detail. It looked rather easy to imitate, but it was some time before Mr. Klunder's competitors had become inspired with the idea, and for a long time he stood paramount in his field. By this means his business grew to such proportions that he found it necessary to greatly enlarge his facilities for handling the enormous increase.

American Beauty roses at this time were very few—the leading rose being General Jacqueminot. Mr. Klunder contracted for and secured the monopoly on this rose: he made enormous profits on this deal, and often wrote his check in four figures. The particular grower with whom this contract for "Jack" roses was made during the busiest month received a check for $5,000 for flowers delivered. This at the time was the talk of the trade, and has been commented on many times since. It stands as a record breaker, and up to today has not been equalled by any one individual in the trade. It may not be amiss at this time to mention some of Mr. Klunder's achievements:

A brilliant masquerade ball was given by the Vanderbilts upon their entry into the social world, and the fulfillment of the floral decorations were entrusted to Mr. Klunder's good judgment. He was given carte blanche, which gave him every opportunity to display his artistic ability. The ballroom to be decorated was one of the largest and finest in the city at the time, and to secure the choicest and rarest blossoms it was necessary to corner the flower market for that day; every available bloom was bought up. Festoons of orchids in various original de-

signs were the dominating feature; in fact, only the very costliest flowers were used, and these in great profusion. Mr. Klunder received $10,000 for this decoration, and this is the largest sum ever paid for a single decoration by a private individual.

When the Cuttings were in their glory, the senior branch of the house gave a dance at Delmonico's, where the decorations again showed Mr. Klunder's ability to constantly create new ideas with the aid of his loose arrangement. Louis XIV styles were the features here and the decorations were in harmony with this period. French handle baskets were cut in two and arranged as wall pockets; these were connected with heavy garlands of loosely arranged roses and their foliage, the center of the garlands being considerably heavier with long sprays of roses extending to the floor. Violets and damask roses were the main flowers used, and the tout ensemble was a fitting tribute to the sumptuous days of Louis XIV.

Another meritorious decoration and worthy of comment was the New Year's ball given by the then popular society leader, Ward McAllister. Perhaps the hanging gardens of Babylon might have been wonderful for those days, but this was how a suspended ceiling of 17,000 square feet, which hung over the heads of the dancers at the ball and shut from view the dress circle and balcony of the Metropolitan opera house, was made: Cables of woven wire crossed in squares were covered with masses of green leaves and clusters of bright flowers and hung even with the dress circle railing just above the first tier boxes. The great chandelier which was lit above this arbor of greenery shone down upon the dancers beneath like sunlight through the forest of Arden. The two rows of boxes and those on the parterre were almost covered in curtains of smilax and roses, and those on the second row by tall palms and ferns, oranges and rubber plants, reaching to the ceiling of green. From the clusters of electric lights enormous balls of the rarest roses were suspended. The stage was set with great palms and ferns.

One of Mr. Klunder's greatest achievements outside of his several exhibitions was the bewildering success of the great centennial ball held at the Metropolitan opera house in May, 1889. The opera house was transformed into a bower of flowers. Special attention was given to the vestibules, which were converted into a spring-time garden of the colonial period. Not merely the flowers, but the plants and shrubs upon which they grew were here displayed in all the old time buds and blossoms; daffodils, hyacinths, tulips, violets and yellow primroses appeared in endless profusion, massed without any formal or geometrical design and strictly adhering to the loose arrangement. It had that charming lack of prim order which characterized some old-fashioned gardens.

Around the walls and vestibules and reaching up to the balustrades flowering shrubs, such as forsythias, lilacs, quinces and prunes, and here and there fruit trees, such as the forefathers seldom forgot to plant among their flowers, apples, pears, and, of course, some fine specimens of the immortal cherry tree. A smart hedge of garden box, which was nearly a century old, was used as a finishing touch. At the other entrances many different designs were employed. A plateau of green was laid, and on this rich green surface the geometrical design system was used; flowers in diamonds, circles, oblongs and other figures simple and complex, extended over the plateau. No two designs were alike. One was of all tulips, another of hyacinths, a third narcissus, and a fourth daisies. This was a more modern garden, and the narrow border was of daisies and dwarf shrubs.

The ballroom was a dazzling spectacle; the stage just before the curtain was a massive structure of Romanesque character, made entirely of flowers. From the floor it rose high in air, terrace above terrace; one terrace of red azaleas, the next of white azaleas, the third of blue hydrangeas, and then a repetition of this order up to the top. Each side of this gorgeous edifice of flowers was flanked by a gigantic palm from which

Livistonia Altissima.

arose a flagstaff bearing aloft the national colors. For a background to this blaze of color there was a cool green forest of natural pines, hemlocks and other large trees. A flock of 100 white pigeons were poised in air as if issuing from the fastnesses of the forest,—and the leader of the flock held in its bill a laurel wreath over the head of the president. The rest of the decorations were mainly plants in flower which were placed artistically in every available nook and corner.

The dinner table decorations consisted of hundreds of living plants in baskets, but no basket contained other than a single kind of flower. All the different hued pansies greeted the eyes of the guests, each hue separated from the others. Scarlet, pink and white geraniums, mignonette, heliotrope and callas formed blooming islets. The sides of the dining hall were deeply shaded with evergreens, shrubs and vines brightened here and there with huge hydrangeas, azaleas, daisies, roses and other brilliant plants; about 5,000 were artistically interspersed. The presidential table had a wealth of scarlet and white tulips and azaleas and blue hyacinths arranged upon a plateau of trailing arbutus, the whole floral decoration resting upon a great oval mirror six feet wide and ten feet long, and occupying the center of the long oval table.

Mr. Klunder's aim in his business was to interpret nature as closely as possible. In depicting nature and the flowers he so dearly loved, his best taste was displayed in a large dinner given by one of New York's society leaders to President Cleveland, where the decorations were all the choicest orchids arranged in the manner in which they grew in their native clime. It was pronounced by all present as one of the finest and most wonderfully artistic table decorations ever made.

Mr. Klunder gave various exhibitions from time to time during his career; the proceeds from nearly all of them were devoted to charity. His art and wonderful knowledge of the flower business have made a lasting impression in the field, and there are many of his staunch followers still living. The writer firmly believes there is not a man in the trade but who has not in some way or other heard of the many and noteworthy decorations and exhibitions given by C. F. Klunder. They stand as a kindly tribute to his memory. He was an ardent lover of the artistic in floriculture, and did much to elevate its standard.

ALMA E. KLUNDER.

FLORISTS' PALMS.

Commercial Palm Growing in Ghent.

The city of Ghent, Belgium, is noted for its enormous trade, especially its export trade, in palms, its sales of palms in America alone, in 1905, having been over $200,000. Thanks to the cheapness of fuel and labor, and to the specialization and perfection of methods, Ghent has attained and will long hold the supremacy in this line, says Revue de'l Horticulture Belge. A few words in regard to methods of propagation in use will be of interest to all growers.

Palms are generally raised from seed, which is sent to the market as soon as mature, and is planted at once, as palm seed retains its vitality but a short time. The germinating power varies with the species, some sorts germinating but 20 per cent or less, and others 80 or 90 per cent. Growers are generally satisfied with an average germination of 50 per cent. The seeds are unpacked very carefully, as they often sprout enroute, and the slightest blow will break the little rootlet, especially that of Cocos Weddelliana. A temperature of from 60° to 90° suffices for the germination of most palm seeds.

The sowings need constant and daily care; waterings must be made judiciously, keeping the seeds just moist, and avoiding equally too much moisture and over-dryness. Sowings are made in three ways: By single seeds in small pots; in pots, pans or flats, or in the open bench in the propagating house. The first method, were it not so expensive, would undoubtedly be preferable, but is only used in case of rare or delicate varieties. The pots are as small as possible and are imbedded in ashes on the bench; the seeds are lightly covered with soil, and, as soon as the first leaf is developed, air is given gradually, until at the end of a few weeks, the plants are placed on a shelf near the glass, in a warm or temperate house.

For the varieties with seeds of small and medium size (thrinax, geonoma, kentia, areca, etc.), 5-inch to 7-inch pots are generally used; they are first about half filled with broken pots, on which is placed the soil on which the seed is scattered, but scarcely covered, then sunk in coal ashes or fresh tan bark and placed under glass in the propagating house. The sprouted seeds are potted separately

when the radicle is one to two inches long, or later, when the first leaf is developed; the former proceeding is, of course, better.

Sowing in flats is most in favor for kentias; wooden boxes 25 to 30 inches long, 16 inches wide and four inches deep are pierced with many holes and covered with a bed of broken pots, then with soil, on which the seeds are placed and sprinkled with soil. These boxes are placed in a hot or a temperate house, usually under the benches, standing upon pots, near the pipes, at a temperature of 65° to 75°, at which temperature they sprout with great regularity and are potted as the shoot shows above the earth.

Sowing in beds in the propagating house is most preferable for wholesale growing; a layer 4-6 inches deep of finely sifted coal ashes or sand or other light porous matter is used. Sphagnum has been tried, but with poor results. The seeds are spread thickly, scarcely covered and pricked off into pots as fast as they sprout. Kentia, cocos and others are sown in this manner. In houses where sowings of 400,000 to 500,000 kentia, areca and cocos are made, the seeds are mixed with a little more than half their volume of heath soil (terre de bruyére) and sown in the propagating house to a depth of four to six inches; this necessitates very great care in watering and careful handling, and the potting of the seeds as they begin to germinate.

The potting of palms is a delicate task, requiring great care, and should take place when the radicle is less than an inch long (kentia, cocos, etc.). Latanias, thrinax and others with fibrous roots may wait longer. The pots should be as small as possible, well drained, and so filled that the sprouted seed at the top of the pot shall be at least half buried in the soil. The young seeds are then placed on a bench in the propagating house and covered until they develop the first leaf, after which air is gradually given, till in three or four weeks the young plants are placed on a shelf near the glass in a warm or temperate house.

Proximity to the glass is an essential to success with young palms, and it is best to leave them there as long as possible; one or even two years. The care is limited to frequent washing of the foliage and sprinkling with water and doses of liquid fertilizer. No haste need be used in repotting, for young palms do better in small pots; a little fresh soil with a little guano on the surface, is good. Repotting generally takes place about the end of the first year, and once each following spring, with a surface dressing or two during the summer.

A WELL GROWN KENTIA FORSTERIANA.

At the end of a year the young palms are sorted, the cocos, kentia, geonoma, etc., forming one group,—the latania, corypha, livistona, etc., another. The first group are left upon their benches, standing in ashes, and repotted as necessary. It is inadvisable to place them in tan bark, as they become too slender and less vigorous than those grown cooler. Two-year plants should have a minimum temperature of 60°. The plants of the second class (latania, corypha, Areca sapida, A. Baueri, A. lutescens, etc.) should be buried after the second year in a bed of tan bark 25 to 30 inches deep, and as near the glass as possible. Also, they may be given more frequent waterings with liquid manure and be more frequently repotted.

BENCH OF SEEDLING KENTIAS.

Notes in Season.

After the holiday rush is over the demand for palms lessens to some extent, though some good fresh stock is required from time to time in all first-class retail stores, for plants even more than some other lines of goods, are liable to become shop-worn. It is during this period, and up to Easter, that the autumn potted stock is likely to become especially useful, six and eight-inch kentias, some good latanias, Phoenix Roebelinii and good stock of Livistona rotundifolia being among those that are usually in demand.

And since the Christmas stock was disposed of, there is generally space to spare in the plant houses to clean up, set over, and generally rearranged the plants, giving the young palms space enough to spread out and assume their proper form. There is also time at this season to wage war on the insects, for in a crowded stock of plants there are invariably some colonies of insects to be found. Scale, thrips, and red spider are the particular kinds that are most troublesome and injurious, the brown and black scale on kentias being among the worst to contend with, owing to the fact that they multiply so rapidly, and also leave their mark upon the foliage if allowed to become established.

Whale oil soap, tobacco soap, nicotine solution, and some of the soluble oil preparations, have value in fighting these pests, the nicotine and soluble oil preparations being the most expensive, but doing the work when carefully used. Thrips is best controlled by frequent fumigations with nicotine paper, and in using this insecticide a somewhat larger amount may be given than is recommended by the makers. For example, 12 to 15 pieces of nicofume paper may be used in a house 25x100 feet, without any injury to palms, and this should be repeated on two or three evenings if there are many thrips in the house. These insects are most troublesome on arecas and kentias, but are by no means confined to those species. Red spider will attack almost any plant when given an opportunity, and the best way to avoid this pest is by giving vigorous syringing on every favorable opportunity, a good force of water directed under the foliage being the best remedy to apply.

Spraying with, or dipping in ivory soap solution has some value in fighting red spider, but if one syringes vigorously, keeps a moist atmosphere, and watches for the dry corners in the house, there is seldom much trouble from spider. An even temperature helps much in keeping this class of plants in good condition, a regular night temperature of 60° to 62° being much better for commercial palms in general at this season than to attempt to force them along at a higher mark. Livistona rotundifolia is especially susceptible to the attacks of red spider, and owing to the compact habit of growth of the young plants, it is not easy to get under the foliage when syringing. It is well, therefore, to examine these frequently, and also to set over and turn around the plants from time to time, in order to expose all the leaves to the water in turn.

Notwithstanding the fact that but little active growth is going on among the palms at this season, it will be found that they still take up much water from the soil, and that frequent and thorough waterings are required to keep them in condition, there being no season of the year in which a well-rooted palm needs to be kept dry at the root. Shading will soon be needed for few greenhouses are glazed with perfect glass, and one blistered pane of glass may do much harm to a number of plants when the sun gets high enough. About February 15, if the weather is bright it becomes necessary to put a light shade on the south side of the palm houses, but the north side may do without shade for two or three weeks longer.

W. H. TAPLIN.

THE CARNATION.

Notes in Season.

A very important detail is taking the rooted cuttings from the propagating beds, potting and caring for them. The cuttings for home use should be potted as soon as roots are well formed, it being much better for the future welfare of the stock that the cuttings receive atention as soon after rooting as possible. Cuttings intended for shipping will have to be left in the sand for a longer period to get more and hardier roots to stand the packing and travel. The first and most important need for this work is proper soil. At this period of their growth young carnation plants should not be treated to soil with very much manure in it or a soft growth will result. Growers who are situated so that they have to use a heavy stiff soil will, as a necessity to lighten it up, have to use a certain proportion of manure but it should be thoroughly well rotted and cured. Another important point is that of getting the soil in the best condition as regards moisture. It is a very great mistake to bring in frozen soil and use it directly after it has thawed out and still in a wet condition. It should at least be allowed to lay spread out long enough to get warmed through and dried out enough to be friable when handled.

When taking the cuttings from the sand we find it a considerable benefit to dip the roots in clear water which cleans them entirely of sand. This seems to stiffen the roots and put vigor into them so that very little wilting results from transferring them to the pots. The size of the pots that carnation cuttings should be potted in when taken from the sand depends greatly upon the temperature they will be subjected to and the treatment which they will receive after potting and, here is where experience and careful study is working out many of the problems that appeared so difficult a few years ago. Alluding first of all to the rust, which was then so prevalent on nearly all establishments now a batch of rust infested plants is an exception among up-to-date carnation growers. Not half the moisture is applied to the young stock or the flowering plants either by syringing or watering at the roots as was the case even three or four years ago, and this has much to do with the freedom from rust. By close watching of the temperature and the regulating of the ventilation it is wonderful what a small amount of water the young carnation plants while growing in small pots will require and still build up sturdy, healthy plants fit for any method of after culture.

The ideal treatment, after they have taken fresh root in the soil, is to give them plenty of light, ample ventilation without chilly draughts, a night temperature around 45° with a rise of but a few degrees by artifical heat during the day, a dry atmosphere about the house and water at the roots only as they require it to prevent wilting. It is a mistaken idea to drive the young plants directly from the potting with the object of getting a large plant and being able to top two or three times for planting out in field. There is bound to be a short period just before the time for transferring to the field when a considerable check takes place unless a shift to a larger pot is given them. Pot now into 2¼-inch pots; grow naturally in a cool temperature without forcing, paying particular attention to keeping them free from insects and the young stock will be a pleasure to all concerned. Directly after potting give a good watering to settle the soil about the roots. After this water sparingly, or only as the plants demand it. While thinking of potting carnation cuttings the question presents itself of the incoming stock of new varieties that are being shipped in. First of all, it is the purchaser's right that he receive 100 strong, healthy, well-rooted cuttings for every 100 ordered. If they are not so, return them whence they came. It is poor policy to accept a shipment of a novelty or any variety when it is necessary to put five or six, sometimes more out of every bunch of 25 back into the sand to get roots on them. When the shipment comes to hand they should be taken out of the box at once, the roots dipped in water that has had the chill taken out of it and then potted. It will be necessary to shade these plants longer than home grown stock after potting for them to recover from the effects of travel. C. W. JOHNSON.

WASHINGTON, D. C.—W. R. Smith, superintendent of the National Botanic Gardens, who has been under treatment at Providence hospital for five weeks, has completely recovered and has assumed his duties again.

ALBUQUERQUE, N. M.—The Albuquerque Floral Co. has filed incorporation papers, the capitalization being $25,000. The incorporators and directors are: Arno E. Huming, Frank H. Strong, Roy S. Elwood, C. W. Taylor Goodman, Creighton M. Foraker, Peter K. Scheck, and John F. Pierce. The company will engage in the business of raising and selling flowers and plants.

THE ROSE.

IN England they still call Marechal Niel "the queen of roses."

BRIDE and Bridesmaid roses will not be grown by many of the rose specialists this year, as it is claimed they do not pay.

Rose Cardinal.

Cardinal, the fine red variety figured herewith, is a grand summer rose. It is good all the year round in fact, the roses from which our illustration was prepared having been photographed February 4 of this year. But during the dark days of winter when it is impossible to give air as freely as in summer the color is not so good. Richmond is, of course, a grand color, but in summer the flowers have to be cut so tight that they are useless for some kinds of decoration. Cardinal, on the other hand, may be cut fairly open in summer and the flowers come large and of a beautiful deep red. It is a disputed point as to whether roses, for summer use only, pay for the room they take up, but when a variety produces such excellent flowers as Cardinal does all winter in addition to the choice stock in summer, there should be room for it, and one wonders why it is not more grown. The flowers illustrated were grown at the Poehlmann Bros. Co.'s plant at Morton Grove, Ill.

Notes in Season.

Now that we have longer days and more sunshine, it may be noticed that the plants have responded to the improved weather conditions. Usually at this time, one will notice new wood forming or springing into growth, from wood that seems dormant and the plants show a tendency towards renewing their growth, so to speak. This indicates a renewal of the root action and if one carefully examines the soil small white fibrous feeding roots will be discovered. Now, unless these tender roots are protected, and we might add encouraged, their feeding power will be destroyed as they are usually near or quite at the surface of the soil which dries very rapidly and for this reason a topdressing or mulch should be applied. We prefer well rotted cow manure for this and one can put on a layer about an inch deep without doing any harm through over feeding, being careful not to pack the manure; at the same time it should be well broken up before applying.

To be able to apply the mulch easily, it will be essential to first tie the plants and clean them thoroughly; remove any loose manure that may be left from a previous mulch and there will then be nothing in the way to retard the work. We have often seen ground bone or bone flour used before putting on the manure, and have used this method and watched the results carefully, but have failed to note any improvement over the results obtained from using the manure alone. In fact, on several occasions the bone meal has had a detremental effect on the roots, owing perhaps, to some acid used in the manufacture of the bone, that is, something not contained in the analysis of the bone. If one can obtain bone shavings or ground bone, this makes an excellent fertilizer to spread over the soil before applying the mulch and it can be used with perfect safety.

Now, very often one may not have just the proper manure for mulching, it may be green manure in fact, and in this instance, the grower will have to exercise a little more care in using it. A good plan would be to place a ridge of the green manure across the beds between the rows. Try and arrange to be able to give the soil a good watering the day after the mulching; in this way some of the strength will be taken out of the manure and it will go where it will do the most good. Follow up the watering with a thin layer of fresh soil spread over the manure, otherwise the foliage, also the flowers, will be badly spotted though the action of the fermenting manure. This is one of the drawbacks when using green or fresh manure and only by the use of a top dressing of soil can the injurious effect of spotting be eliminated. Within a week or so, the mulch should be gone over by hand and the surface broken up, otherwise the evaporation of the soil will be extremely slow as the manure becomes a regular blanket excluding the air in a marked degree. Of course, the work of watering after mulching will require more care and one must look out for the dry corners and bottom soil where the benches have bottom heat. Again, one must have a care that the plants do not get an overdose of water.

Give the rose houses all the air possible from now on, avoiding draughts, of course, and this will increase the evaporation. The above suggestions for mulching are intended to encourage the growth of healthy, vigorous plants, able to take the extra feeding. If one has a lot of plants in a feeble or over-forced condition, to mulch them or to feed them in any manner would have a tendency to put them out of commission entirely. Plants in this condition should have at least a short rest; run them on the dry side, but syringe frequently, and when they begin to make new, healthy growth, it would be advisable to use a weak solution of manure water until they are able to take the extra feeding contained in a good mulching. This must be left to the intelligence of the grower, and for successful results water carefully, ventilate with care and maintain an even temperature in the houses. A crack of air on the houses at night for the first three or four nights after mulching will be beneficial.

E.

Feeding Roses.

ED. AMERICAN FLORIST:—

I have been growing flowers for the local trade for a few years, but there are two points that I have not been able to get definite information in regarding the growing of roses, viz., feeding and the removing of blind wood. I read the trade papers carefully. Will some correspond tell me, not what to do, but just what he has done this present season to his own roses in these two regards?

Connecticut. B.

Replying to "B" will say that we grow the standard commercial varieties of roses and we usually apply a light mulch of well-rotted cow manure about October 1 to keep the top of the soil in good condition. About November 1, we begin with the manure water and for the first two or three weeks we do not use it full strength. After that we make it full strength, using nothing but grain-fed cow manure and a good grade of sheep manure alternately about every 10 days, as we try to give them a good watering with fresh water between times. About February 15 we apply a good mulch of half-rotted cow manure, and in about two weeks continue with the liquid manure. Another mulch about the second week in April is about all the feeding we give until the plants are thrown out, about the beginning or the middle of June. As for pruning, we do very little. Now and then we remove a little twiggy growth or cut back some blind growth, but never very much pruning is done at one time. We like to have our plants carry all the good foliage they make. If "B" had regularly read the suggestions pertaining to rose culture in the AMERICAN FLORIST, he would have found them a great help, I am sure.

E.

Rose Cardinal.

ROSE CARDINAL.

ORCHID NOTES.

REPOT Lælia anceps as the plants go out of flower.

WATER Cypripedium insigne freely and top-dress or repot any plants needing this attention.

GIVE new compost to Zygopetalum Mackayi: this is one of the strongest feeding of the pseudobulbous orchids.

AVOID too much atmospheric moisture when deciduous dendrobiums are advancing for flower or many of the buds will produce new growths instead of flowers.

THE sawed end of a block of poplar or basswood is excellent for sowing seeds of orchids on. Never use oak as it contains an acid that is fatal to the young plants.

PLANTS that had the rhizomes partly cut through in fall as advised and are now rooting on each side of the notches may be severed and potted separately if this is intended or top-dressed before the new roots make much headway.

Notes on Commercial Orchids.

CATTLEYA PERCIVALIANA.

Cattleya Percivaliana comes into flower as labiata is on the decline; it is a pretty little cattleya, but owing to its odor it is never in great demand. Coming into flower, as it does, when orchids are scarce the flowers can generally be disposed of at a fair profit, so it is a necessity for the growers of commercial orchids. From two to five flowers in a sheath are produced very freely from small plants, which well repay for the space occupied if grown right, and to do this a winter temperature of not less than 55° on cold nights must be maintained. A rise of

10° or more from fire heat during the day is necessary for good results; if grown cooler this causes many flowers to rot in the sheath, besides retarding the flowering season. Similar culture to that described for C. labiata suits it well, only C. Percivaliana requires a greater time to produce its flowers after maturing the present season's bulbs, which, if left on them for a time before being cut, increase both in size and substance, making them sell better. With careful management this cattleya may be brought into bloom in November and December, or just in advance of C. Trianæ; if the grower does not succeed in getting it in flower before the latter there is little chance of disposing of the flowers at any price, for C. Trianæ, being next in line, holds sway for quite three months (from December to the beginning of March).

C. TRIANÆ.

C. Trianæ is a very popular cattleya and perhaps the most profitable to grow, though, to many growers, it proves the most disappointing of all cattleyas, as fine sturdy looking bulbs often fail to produce a bloom or have one or two flowers only in a sheath, while other bulbs, not so strong to look at, will have three, four, or five flowers in a sheath. This only shows that the cultural methods of many orchid growers are not quite perfect, while those who are masters of this cattleya do not tell all they know about it. Still the explanation is simple enough. It may not have occurred to all orchid growers that if C. Trianæ flowers in its native habitat, which is near the equator, at the same time of the year that it does under cultivation, it must certainly enjoy what we know as midsummer weather in its natural haunts. So it looks as if C. Trianæ, under cultivation, is grown too cool at the flowering season, and it is quite reasonable to expect that more heat and a little drier atmosphere, just before, and during the flowering season would overcome the trouble mentioned above, and bring better results for the general run of orchid growers. This has been our experience in practice and it may well be illustrated with the methods followed by some orchid growers just before the holidays when prices for cut flowers are expected to reach the top notch; they will put on more heat day and night to bring out all the flowers possible, and, if the weather should be cold and bright, it is wonderful how quickly they will respond to the change by pushing up fine long stems with flowers of good substance; after the holidays there comes a slump and the demand for orchids usually drops, then the grower suddenly shuts off the extra heat with the very erroneous idea of keeping them back till the demand for flowers is better, much to the detriment of both plants and flowers. The result of this treatment is generally seen by the thin, starved, short-stemmed flowers that appear for a time till nature brings relief with the warm sunny days of February.

CATTLEYA TRIANÆ.

C. SCHROEDERÆ AND OTHERS.

A little observation and attention to slight details such as the above will often overcome serious difficulties for the orchid grower. It is poor policy to try to retard any cattleya by keeping it cool before the flowers burst out of the sheath; it is much better to give every encouragement till the flowers are developed then place them in a comparatively cool and dry house, where it is surprising how long they last in good condition. The same general treatment indicated for C. labiata during the growing season answers admirably for C. Trianæ and the same may be said of C. Schroederæ, which follows C. Trianæ keeping up a succession of flowers till the end of March. This is much paler in color than most cattleyas but makes up for this by the pleasing odor; it is a good grower when first imported, and, by attention to potting at the right season, there is not the slightest reason why it cannot, with the majority of other cattleyas, be grown indefinitely if common sense is used.

If a grower has only one large house for cattleyas and does not feel justified in giving up two for this purpose, it will certainly be to his benefit to put a partition in the middle of it, to divide what may be called winter flowering species from those that flower in summer. The localities from whence they are collected are said to be hundreds of miles apart, and to bring them all together and grow them in one house requires far more attention than if they are kept separate. True, they can be, and are, grown with considerable success by some growers all together, but it entails more unnecessary labor than can be well described. In the first section C. labiata, C. Percivaliana, C. Trianæ and C. Schroederæ will do, at the warmest end of the house; these on the stages, with C. speciosissima hung on the roof will give a continuous supply from August to March. C. speciosissima, is known as a shy bloomer; it is a beautiful large type of cattleya, often flowering twice a year under certain conditions. Do not water it with the hose when suspended from the roof, as in the growing season it will never get enough water. It will pay to soak the plants well in a tub when dry, but always let them get dry before doing so. Under this treatment it will flower as satisfactorily as any cattleya.

W. DICHROS.

Two Useful Orchids.

The accompanying illustration shows two very useful and beautiful orchids—both too well known to need detailed description—Cœlogyne cristata and Dendrobium Wardianum. They were grown by Thos. F. Eastwood, gardener to Mrs. D. M. Osborne of Auburn, N. Y., who says: "The dendrobium is growing in a 5-inch pan and the best growths are 4 feet 7 inches in length, showing that suitable atmospheric conditions are chiefly important in the culture of these beautiful epiphytes." With this we quite agree and we have frequently pointed out the futility of using large receptacles for the deciduous dendrobes.

Boston Co-operative Flower Show.

The annual exhibition conducted by the Boston Co-operative Flower Growers' Association, otherwise and better known as the Park Street Market, was held at Horticultural Hall, Boston, Mass., February 27-28. The exhibition

CATTLEYA PERCIVALIANA.

was a huge success in every way and far exceeded the best anticipations of the committee in charge, which had carefully arranged the details leaving no stone unturned to suit the convenience of both the exhibitors and the public. This being the first time the exhibition has been held outside of the association's premises, the immediate approval it met with from the public in general has determined without a question the feasibility of annually holding the exhibition in this spacious building. At the opening at 2 p. m. on Saturday a multitude of enthusiasts instantly took possession until the closing hour at night. Again on Sunday on opening the doors the hall was quickly thronged with people who delight in these exhibitions and during the afternoon and evening many thousands took advantage of viewing the splendid display of mid-season flowers in their prime. No admission fee was charged, the show being open to all. The publicity bureau in charge was amply satisfied with its advertising efforts.

The object of this exhibition was primarily for the commercial growers' interest, their exhibits far exceeding those of the private growers who so willingly co-operated. Everything in a commercial grower's line was staged from the leading plant specialties down to the smaller novelties. Boston, "the home of carnations," was never more proud of its display, the equal of which in this line has never been staged in this city. It occupied the center of the main hall and was admirably staged to the advantage of both flowers and observers. Next in importance, although not nearly so extensive, was the rose section, where were seen the finest varieties in superb form. Competition for honors was decidedly keen, the judges selecting the winners only after the closest inspection and comparison. No less attractive and interesting were the violet and sweet pea exhibits which for varieties and superior cultivation have never been equalled.

A rare exhibit of cyclamens, including fancy varieties of the highest type, created no end of admiration, and bulb stock, embracing every variety known, was accorded particular favor. From the store-keepers come a fine display of fancy baskets of all varieties of flowers. The prizes offered in these classes were carefully awarded. Bouquets of various sorts and several dinner-table decorations completed the unique display. The prizes subscribed were somewhat different from the usual awards and were principally cut glass, serving as far more useful and artistic prizes than the time worn silver ornaments. This step was readily appreciated and it is hoped has come to stay. The morris chair subscribed for by the market salesmen was a thoughtful prize and will long be cherished by the winner.

Albert Roper's Bay State, was the leading attraction among the carnations, which included numberless varieties, prominent exhibits being made of Afterglow, Dorothy Gordon, Beacon, Winsor, Ruby, White Perfection, Enchantress, Alma Ward, Lawson and many others. This was the first opportunity for the local growers to see Bay State in its prime and it was returned the best vase in the show, beating out Alma Ward and Dorothy Gordon. Beacon outshone all other red varieties, many growers competing for the honors. This display was one of the largest of any single variety and safeguards the position already attained by this wonderful carnation. Afterglow and Winsor were foremost in the pink carnation exhibits, and were staged in unusual condition. Among the out-of-town exhibits were those of the F. R. Pierson Co., of several new seedlings which were not for competition. Baur & Smith of Indianapolis showed a vase of Shasta White of especial interest.

American Beauty, Richmond, White Killarney, Killarney, and My Maryland were the prime favorites among the roses, W. H. Elliott and the Waban Rose Conservatories being the principal exhibitors. Bride and Bridesmaid were shown in remarkable condition by the Montrose Greenhouses. Perle, Isabella Sprunt, Bon Silene, Safrano and Rhea Reid all received recognition from the judges for their extraordinary form. A. N. Pierson of Cromwell, Conn., was awarded first for mixed roses, entering a superb assortment of varieties. S. J. Rueter of Westerley, R. I., received first honors for My Maryland.

William Sim staged a collection of winter sweet peas that has never been equalled, including the pick of the Zvolanek varieties, shown in their true form. This grower scored again with his new violet, Kaiser Wilhelm, shown for the first time and admired by all. Estey Bros. led a field of 11 competitors for first honors and showed a rare quality of Princess of Wales. H. M. Calder, with his Lady Campbell, led the growers of double varieties; following closely was H. M. Sanderson's Farquhar. Thomas Roland presented an enviable attraction in his display of wonderful cyclamens, superior to anything ever before exhibited in this hall. This display was awarded the prize for the most meritorious display in the hall and everywhere the award was instantly approved. Sydney Hoffman won first honors for table decoration of violets. Henry Penn being second. The basket and centerpiece competition brought out

TWO USEFUL ORCHIDS.

Cœlogyne Cristata, (On Left); Dendrobium Wardianum, (On Right).

a large display, F. E. Palmer of Brookline winning first in both classes. The following is the list of awards:

CARNATIONS.

Fifty white.—F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.; W. Nicholson, Framingham, second.

Fifty flesh pink.—P. Fisher, Ellis, first; S. J. Goddard, Framingham, second.

Fifty light pink.—F. R. Pierson Co., first; M. A. Patten, Tewksbury, second.

Fifty dark pink.—F. R. Pierson Co., first; S. J. Goddard, second.

Fifty red.—Cottage Gardens Co., Queens, N. Y., first; M. A. Patten, second.

Fifty crimson.—W. Nicholson, first; W. Wheeler, second.

Fifty variegated.—W. Nicholson, first; M. A. Patten, second.

Twenty-five white.—Le Moine Bros., first; F. R. Pierson Co., second.

Twenty-five flesh pink.—Le Moine Bros., first; M. A. Patten, second.

Twenty-five light pink.—Le Moine Bros., first; F. R. Pierson Co., second.

Twenty-five dark pink.—M. A. Patten, first; C. S. Strout, Biddeford, Me., second.

Twenty-five red.—Le Moine Bros., first; A. Bateley, second.

Twenty-five crimson.—E. Winkler, Wakefield, first; Le Moine Bros., second.

Twenty-five variegated.—M. A. Patten, first.

One hundred blooms in vase, not less than six varieties.—Pierce Bros., Waltham, first; F. R. Pierson Co., second.

One hundred blooms, one variety.—A. Roper, Tewksbury, first; Cottage Gardens Co., second.

Peter Fisher's prize for best 50 Beacons.—W. Nicholson, first.

Peter Fisher's prize for best 25 Beacons.—C. S. Strout, first.

Cottage Gardens Co.'s prize for 50 Beacons.—S. J. Goddard, first.

R. Witterstaetter's prize for 50 Afterglow.—F. R. Pierson Co., first; W. Nicholson, second.

F. R. Pierson Co.'s prize for 50 Winsor.—Pierce Bros., first; C. S. Strout, second.

Twelve blooms unnamed seedlings.—Peter Fisher, first; F. R. Pierson Co., second and third.

One bloom, white.—Pierce Bros., first.

One flesh pink.—Pierce Bros., first.

One light pink.—Pierce Bros., first.

One dark pink.—F. R. Pierson Co., first.

One red.—Pierce Bros., first.

One crimson.—S. J. Reuter, first.

One variegated.—A. Roper, first.

ROSES.

Twenty-five American Beauty.—Waban Rose Conservatories, Natick, first.

Twenty-five pink.—Montrose Greenhouses, first with Bridesmaid.

Twenty-five red.—W. H. Elliott, first with Richmond.

Twenty-five white.—Montrose Greenhouses, first with Bride.

Twenty-five any other.—W. H. Elliott, first with Perle.

Fifty mixed.—A. N. Pierson, Cromwell, Conn., first; Montrose Greenhouses, second.

Park St. Market prize for not less than 10 nor more than 30 blooms of best new rose undisseminated before 1909.—Waban Rose Conservatories, first with White Killarney.

SWEET PEAS.

Wm. Sim, Cliftondale, won all the sweet pea prizes, including those for 100 pink, light lavender, deep lavender, any other color, best new variety and the Zvolanek prizes.

VIOLETS.

Best Campbell.—H. M. Calder, first.

Any other double.—H. M. Sanderson, first with Farquhar.

Best Princess.—Estey Bros., first.

Any other single.—W. Sim, first with Boston.

Best display Boston. Wm. Sim prize.—S. Hoffman (table decoration).

Best new single violet.—Wm. Sim, first with Kaiser Wilhelm.

MISCELLANEOUS.

Fifty tulips.—T. J. Butterworth, first.

Fifty narcissus.—Mrs. A. S. Fraleigh, first.

Twelve varieties bulbs.—Mann Bros., first.

Fifty lily of the valley.—H. M. Robinson & Co., first.

H. F. Michell's prize for 12 pots of Easter lily.—Pierce Bros., first.

Page Pottery cup for 12 cyclamens.—Thos. Roland, Nahant.

Fifty marguerites.—W. Nicholson, first.

Twenty-five mignonette.—W. Nicholson, first.

Two hundred pansies.—C. W. Ward, first.

Twenty-five antirrhinum.—W. W. Edgar Co., first.

Basket of 100 carnations.—F. E. Palmer, first.

Bride or bridesmaid's bouquet.—Henry Penn, first.

Mound for table.—F. E. Palmer, first.

SPECIALS.

W. W. Edgar for plants, $15.

A. Leuthy for plants, $15.

Thomas Roland for plants, $10.

F. R. Pierson, $10.

Martin Sullivan, $5.

T. T. Watt for orchids, $5.

Ed. MacMulkin for plants, $10.

Mann Bros. for Easter lilies, cut, $3.

The judges were S. J. Reuter, Thos. Roland, A. H. Fewkes, E. A. Wood and A. H. Lange. The following were among the visitors present: F. R. Pierson, W. J. Manda, R. M. Fotheringham, S. S. Skidelsky, A. Zvolanek, A. N. Pierson, Martin Reukauf. B.

THE BOSTON CO-OPERATIVE FLOWER MARKET.

The Flower Divine.

BY THE LATE L. E. MARQUISEE.

Read by H. M. Altick at the close of the banquet to the visitors attending the Indianapolis, Ind., convention of the American Carnation Society, January 28, 1909.

Let others rehearse
In prose or in verse
The praise of their favorite flower.
Its beauty of form,
Its color, its charm,
Its fragrance, its richness of dower.

Let others disclose
The charms of the Rose
And call it the queen—e'er to reign.
Let them fondly declare
There is nothing so fair
In Flora's enchanted domain.

God made the wild roses—
Their beauty discloses
A glimpse of that Beauty Eternal
Whence the beauty of earth
Had its origin—birth.
As well as the beauty supernal.

God co-worked with man
(This is nature's true plan)
And that marvel of beauty is ours
Which dull, sober prose
Calls simply a rose.
But is God's benediction in flowers.

The Violet's hue,
Forget-me-not's blue
Many others entrance and inspire;
The Orchid's rare form
Its tints soft and warm
The Salvia's marvelous fire.

Let others declare
The Lily so rare
Of purity emblem and sign;
The Snow-drop as white
As the stars of the night,
The Daffodil's burst of sunshine.

Let others, too, raise
The Goldenrod's praise,
Which showers its wealth of rare gold
On mountain, in glen,
O'er moorland and fen,
O'er meadow and prairie and wold.

It margins each lake.
Stream, forest and brake;
It vies with the sun in its glory;
The artist's fond theme.
The lover's sweet dream.
It is famous in song and in story.

It marshalls its forces
From mystical sources
And distributes them over the plain;
In ambush, in valleys,
By the river it rallies,
Its pickets watch over the main.

A ravishing vision
Of fair fields elysian,
Of dear Mother Earth e'er she closes
Her eyes for the sleep
Of winter, long, deep,
When she dreams of the lilies and roses.

'Tis the sun's good-night smile
On his earth child, the while
He tucks her up snugly in bed,
To sleep till the spring
Her Blue Bells shall ring
And wake her as one from the dead.

Let others, then sing
And make the air ring
With praise of their favorite flower;
Anemone, Rose,
Or Orchid which shows
The beauty of God and His power.

But in her dear soul
Rolled up like a scroll
The beauty of God was concealed;
It needed from man
The touch of his hand
And Beauty Divine was revealed.

'Tis the story oft told
Of the maiden of old
Asleep through the ages 'tis said,
Till the prince's fond kiss
Awoke unto bliss,
To life, love and beauty the maid.

The story means this—
Man's touch is the kiss
That woke from its dream of ages
Our Flower Divine,
Whose beauty benign
Is the theme of the poet and sages.

Though lowly his birth
From clods of the earth,
Man is a co-worker with God,
And by gracious selection
He has brought to perfection
Our Flower Divine from the sod.

I sing the Carnation.
Exalted its station
It rivals the orchid and rose,
Its beauty delights us,
Its fragrance invites us,
'Tis the peer of each flower that grows.

I sing the Carnation,
Exalted its station.
The prince of all flowers of the field;
No flower is more fair,
No flower is more rare,
And to none will the palm ever yield.

I sing the Carnation
The fairest creation
Which Nature Divine hath e'er made
On prairie or mountain,
By streamlet or fountain,
In valley or forest or glade.

I sing the Carnation
The pride of our nation,
Tho' ours by adoption alone.
This daughter of Flora
As fair as Aurora
Hath entered our hearts—is our own.

I sing the Carnation
Now regal its station
And royal the homage we bring;
The Rose may be queen,
The Carnation I ween
We'll crown with due honor the King.

O, beauteous flower! surpassing fair!
What art thou, what thine essence rare?
Art thou in this enchanting guise
Some spirit from supernal skies,
Strayed from elysian land of bliss!
A doomed exile now is this?
Hast thou a soul that thinks, feels, hears?
And hast thou pleasures, hopes and fears?
Hast thou a throbbing heart and warm?
What mould exquisite cast thy form!
What rare alembic all divine
Distilled such odors sweet as thine?
Or hath some spirit from above
Bent o'er thee whisperings of love,
And are these hues that light thy cheek
Thy answering blushes? Fair thing, speak!
And hath this angel bolder grown
Ere back to heaven it hath flown,
In love's sweet ecstacy of bliss
Implanted on thy lips a kiss
That thus thy breath's ambrosial sweet?
Ah! roguish elf, Ah! pretty cheat,
Thou'rt caught at last, thy secret's bare
Of breath so sweet and blushes rare.

OBITUARY.

Edward V. Hallock.

"Green grows the grass above thee
Thou friend of my better days,
None knew thee but to love thee
None named thee but to praise."

E. V. Hallock died March 2 in New York of apoplexy.

Elsewhere are expressions from representative men in American horticulture indicating the honor and affection in which he was held by all who knew him.

Mr. Hallock was undoubtedly the best informed man in the world in the specialties of gladiolus, lilies, and forage crops, and this information extended to the minutest cultural details, the preparation of the soil, cultivating the crop, and those successive steps through to its winter storage. His essay read before the seed division of the Columbian horticultural congress at Chicago in 1893 on the varieties of vegetable seeds required in the various metropolitan markets of America showed intimate knowledge of, and a broad view of the seedsmen's work. His general knowledge of the varieties of flower seeds, shrubs, trees, grasses and forage plants for the southern states included the widest possible range of general information regarding propagation and culture of all these items.

Mr. Hallock, in this article, does not take the credit to which he is justly entitled, for breeding, cultivating and selecting from a small beginning, the strain of gladioli now known as Childsii. After giving 17 of the best years of his life to this work he found it necessary to dispose of the thousands of seedlings before the strain was named, thus losing for himself an international honor in horticulture to which he was rightly entitled,—the giving of his name to this very valuable section of gladioli. This disposition of them just before they were ready for world wide introduction, cannot have been other than one of the bitterest possible disappointments to him, and yet his best friends never even heard him mention this side of the matter, much less complain. His firm, consisting of his father, V. H. Hallock, and himself, in about 1890 carried on a most extensive wholesale American and export business in gladiolus, tuberose bulbs, lilies, and in all other bulbs for the horticultural trade.

He was appointed director of the S. A. F. by President Vaughan, January 1, 1905, and was re-appointed by President Traendly, January 1, 1908, to fill the vacancy on the executive board, occasioned by the latter's election as president.

He was elected president of the New York Florists' Club, December 14, 1908, which office he held at the time of his death.

AN AUTOBIOGRAPHY.

The following account of Mr. Hallock's life and his drift into horticulture was dictated by him to the editor of this paper just four years ago, January, 1905. Since that time his activities and public work in florticulture and horticulture have been well known. Mr. Hallock as chairman of the S. A. F. committee on school gardens, and in many ways as a director of the society has set a high mark.

In giving this Mr. Hallock modestly and characteristically wrote as follows:

"I was afraid that somebody would put in something foolish so I have given you a little outline of the part of the earth I have covered during the little sojourn here. It will give you a little data to go by if it is necessary to put anything in.

"Born 54 years ago in Dutchess County, New York. Spent the first 19 years of my life with my parents. For five years attended the Friends' seminary at New York and the Adelphi academy, now Pratt institute, of Brooklyn, N. Y. Went to California in the fall, 1869, to look into a proposition a prominent Californian was anxious for my father to become associated with him in; which was to dyke and reclaim the salt meadows and marshlands adjoining San Francisco bay; from San Mateo to San Jose. Nothing ever came of this scheme, but today it is as sound as gold. For three years I was connected with the Southern Pacific railroad. Returning east, we succeeded to the business of C. L. Allen, who had bought the farm at Queens some years before.

"For the pleasant recollections and associations of my early life I owe to the love of horticulture and agriculture, and pleasure of the cultivation incidental thereto. I owe all to my father, as he was a cultivator of rare ability, and he often entertained the most prominent men in horticulture, agriculture and stock raising then in the country, and he followed all these lines with considerable success. In the fifties, we grew the Antwerp raspberry, Lawton blackberry, asparagus, and Isabella grape, for the New York market. As I look back, I can see what a wonderful opportunity we missed. Except notices in the horticultural press of that day as items of news and information, we never advertised a line, and there was a fortune in either the Antwerp raspberry or the Lawton blackberry.

"These plants were new at this time, and the stock was almost entirely in the hands of our family. The plants of both were very high. We received one order of $600 for Lawton blackberry plants, and shipped them in one bale in a light one-horse wagon. Antwerp raspberry plants were equally high, and much sought after, as the fruit at that time was bringing very high prices in New York.

"I remember about this time, we received a large order for blooded stock from Mobile, Ala., and they had to be all crated and sent in a sailing vessel. In 1851 my grandfather was awarded first prize for Cotswold sheep by the American Institute fair, held in Castle garden. My father for many years took a great many first prizes at the New York state fair for this breed of sheep. For many years he owned one of the finest farms of 500 acres in Dutchess county, and sold it during the civil war, in which he was much interested, to George Allerton, then owner of Bull's Head, N. Y. In 1864, we bought the original bulb farm, which we still own at Queens, L. I. For five years it was used for market-gardening; sold to C. L. Allen in 1869, and came again into our possession in 1875. In 1867 or '68, we grew the Early Rose potato, when it was first sold in the New York market for edible purposes, having bought some 10 or 20 barrels from B. K. Bliss & Sons, for, I think, $40 per barrel.

"From 1875 to 1892, I labored diligently to build up the trade and stock of bulbs and plants I sold to John L. Childs in 1892; the most complete and valuable stock of bulbs ever got together. When we first took hold of the business, there was no complete stock of gladiolus in this country, Geo. Such, at that time, having the best collection. We soon bought out Mr. Such, imported quite largely every variety of gladiolus then grown and, when we sold, we were growing some 1,500 varieties, in connection with the most complete and best stock of lilies ever got together. We bought the entire stock of what is known as Gladiolus Childsii, something over 50,000 bulbs, also all bulblets and seed. I purchased this stock by cable upon the recommendation and truthful representation of the originator of this strain, Max Leitchlin, of Baden Baden, and I consider it today the best of all breaks ever made in the gladiolus. Many of the best and most valuable varieties, now used and catalogued, were raised by us, but strange to say, few of the sorts we considered good enough to put on the market as high-priced novelties, although they out-classed most of the French varieties of that day. Augusta and Octoroon we never considered of great value, but today are called among the best. In fact, our American varieties seem to have great staying qualities. Snow White we bought near Boston, grew it nine years, and sold over 50,000 bulbs the first year it was put on the market. It always grew well with us. U. S. Grant I consider the best gladiolus I ever raised; Lilium Opal, was raised on our place from one bulb, and when sold to John Lewis Childs, he had several thousand of the different sizes. This is the finest of all the Speciosums. For the past few years, have not been actively engaged in horticulture, being interested considerably in Long Island real estate, which I believe has a great future."

To Be Done Now.

IN THE GREENHOUSES.

Keep tomato plants hard and vigorous from the start by keeping up a good circulation of air about them and a good light.

Nothing is gained by taking off chrysanthemum cuttings before they are large enough to make good stock.

Never allow old bulb flats to lie around with the soil and bulbs in them. Throw out the rubbish and stack up the flats in a shed until needed.

Be careful not to overpot palms. It is safer and better to feed than to give too much soil.

A good top dressing of manure is in order now for the benches of American Beauty roses where plenty of buds are setting.

For rose grafting avoid very soft or pithy wood on the one hand and hard dry wood on the other.

Avoid overfeeding carnations directly after the plants have been cut hard for the supply of cuttings.

Keep the plants of stevia up in a good light until the required number of cuttings has been secured.

Dry poinsettias off gradually, as the plants will produce more and better cuttings this way than if suddenly deprived of water.

OUTDOORS.

Save any rough mortar or lime rubbish that may be at hand from building operations for mixing with cucumber, tomato or lettuce soil.

No concrete work should go on when the day temperature is below freezing point. Frost will not injure dry cement or concrete after it is set, but as long as there is moisture in it the mass must be protected.

Watch frames in which evergreen cuttings are rooting. The sun is getting more power and soon heats up the small amount of air space between the glass and soil to the detriment of the stock.

In warm localities radishes may be sown on the early borders where they may be protected later.

Look over all young trees and remove any ties or other supports that may be "growing in" to the bark.

Clean off and burn all protective material around fruit tree stems, replacing with new; this will destroy many injurious insects and their eggs.

ERIE, PA.—Harry A. Neuner, who formerly had charge of the rose houses of the Erie Floral Co., has accepted a position as foreman of the rose department with G. Van Bochove & Bro. of Kalamazoo, Mich.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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TAKE advantage of bright days to ventilate judiciously and harden up the stock.

GOLDEN ROD, embroidered in silver on Mrs. President Taft's inaugural gown is said by the daily press to be indicative of her preference for that flower as a typical American one.

THE legislative and tariff committee of the Society of American Florists held a full meeting February 24. A resolution was passed, voting specific rather than ad valorem duties. It was the sense of the committee that on any article where the florists, seedsmen and nurserymen meet in common interests, there should be a conference, and a unity of action by the three organizations in placing the views of the trade before the ways and means committee.

The Late E. V. Hallock.

Kindly, thoughtful and considerate of others, genial, modest and unassuming, an altogether lovable personality; that was Edward V. Hallock as we, his many friends, knew him. A close, keen observer, widely read, a master of his profession, a careful, logical thinker, his public utterances all too few, whether written or spoken, always deserving and receiving careful consideration, he has stood high in our councils. The printed pages of our proceedings speak for the work he has done but they do not, cannot, convey an idea of the charm of his manner, the winning tones of his voice, his friendly smile. We have lost a friend; the profession has lost one of its leaders; the community in which he lived has lost a good citizen. A MAN is dead.

WILLIS N. RUDD.

PRESIDENT VALENTINE wires: "Mr. Hallock's influence has been so refining and uplifting, his interest in educational matters so keen, that his death is nothing short of a calamity to the Society of American Florists, and to everyone who was privileged to know him."

EX-PRESIDENT TRAENDLY wires: The death of our dearly beloved president, E. V. Hallock, coming as it did like a flash of lightning from a clear sky, leaves a vacancy in our profession which it will be hard to fill. Mr. Hallock's work as trustee of the New York Florists' Club, and also his short term as president, had endeared him to all members of the club. To the florists of the country his work as a member of the executive board of the S. A. F. was well known. This was shown more in his work for the cause of school gardening, and in his death this work will lose its foremost champion. Personally Mr. Hallock was of a very lovable disposition and one of the pleasantest weeks of my life was the week I spent with him at his farm in the Catskills.

TREASURER H. B. BEATTY wires: "I was inexpressibly shocked on receipt of your telegram advising death of E. V. Hallock. The horticultural interests of the country have lost a very able and capable man, one who will be more missed than perhaps at this moment even we his friends realize. The benefit of the work he has done in relation to school gardens can hardly be calculated. His family has lost a true and loving father. We have lost a close, sincere and loyal friend."

PRESIDENT AUGUST POEHLMANN of the American Rose Society writes: "In the death of E. V. Hallock the florists have lost a true, loving companion, a man of men, one who was always ready to respond with kind word or deed when called on, a man of genial, loving and lovable disposition; the members of the American Rose Society will sadly miss him. To his daughters we can but express our most heartfelt sympathy."

EX-PRESIDENT C. B. WEATHERED, of the New York Florists' Club, wires: "The New York Florists' Club and horticultural world have met with an irreparable loss. The blow is too sudden, too great for any individual to express even a thought. Our hearts are stunned and tongues tied."

SECRETARY JOHN YOUNG, of the New York Florists' Club, wires: "It is hard to realize that E. V. Hallock is no more. We have all sustained the loss of a good friend. Working together as we had been I had learned to love him. His life should be an example for us all."

WALTER F. SHERIDAN wires: "I was deeply moved at the announcement of Mr. Hallock's sudden death. His friends will remember him as a courteous gentleman, warm and earnest in his friendships. An able president is lost to the New York Florists' Club, which under his administration had just entered on what seemed to be the most successful period in its history."

F. R. PIERSON wires: "Am inexpressibly shocked to learn of Mr. Hallock's sudden death; it doesn't seem possible; nothing I can say would express my personal feeling of love; no one knew him but to love him."

American Rose Society.

BUFFALO EXHIBITION MARCH 17-19.

The schedule committee and the executive committee of the American Rose Society held a joint session last Friday in New York. President Poehlmann has appointed a committee to consider the examination and requirements of new roses. Robt. Simpson of Clifton, N. J., is chairman. Applications for recognition by the society of three different roses was brought up. The schedule committee reported upon their work in revising the schedule, a preliminary copy of which has been published. A report was also given on the awarding of special prizes. The value of the prizes as computed by Mr. Pierson, is equal to $1,000 at the present time, and several persons have advised that they would like to put up special prizes for the Buffalo exhibition; these prizes have not yet been received. The Iroquois hotel will be the headquarters. Papers are being prepared by five different persons upon matters of pertinent interest. Leonard Barron has offered to give an illustrated lecture on this occasion. All entries from a distance may be sent in care of Vice-President Wm. F. Kasting, 385 Ellicott street, Buffalo, N. Y. The exhibition will open Wednesday afternoon, March 17, at 5 o'clock in the Iroquois hotel and continue over March 19.

BENJAMIN HAMMOND, Sec'y.

Society of American Florists.

REGISTRATION OF CARNATION.

W. H. Shumway, of Berlin Conn., offers for registration Carnation Edward, described below. This application having been submitted to the American Carnation Society and having received its approval is accepted and the carnation as described is registered. "This new seedling carnation is a product of five years' development; Enchantress is one of its parents, the other not known. The habit of growth is good, branching well, with foliage of good color and substance, easy to propagate, a rapid grower with stems 24 to 30 inches; flowers from three to four inches across, well built up, very full, color a deep pink with good calyx."

W. N. RUDD, Sec'y.

Plant Notes.

Cissus discolor is an old and well known plant that should be more used. It is excellent for basket arrangements either by itself or in conjunction with Boston and other ferns but should not be used with other foliage plants. To bring out the bright color in the leaves and stems, which is its chief attraction the vines should be well exposed to light and grown in a moist, warm house. They will then color up splendidly. A moderately rich soil only is needed. Cuttings of the leafless wood strike freely in winter or the young shoots in spring.

Dipladenia Boliviensis is a beautiful plant, not nearly so liable, with its smooth leaves, to be attacked by insects as D. amabilis and others of the rough leaved section, and more easily cleaned if the insects do appear. The flowers are pure white with a dense yellow eye and produced with the greatest freedom. It also thrives with less heat than the other dipladenias.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By experienced florist, to take charge of store and conservatory.
Key 812, care American Florist

Situation Wanted—In up-to-date flower store, by an experienced man; can furnish best of references. Key 810, care American Florist.

Situation Wanted—By practical gardener and florist; private or commercial; life experience; good reference. Address J. HODGE.
210 N. Tod Ave., Warren, O.

Situation Wanted—By a first-class designer and decorator; 18 years' experience; age 36; best reference given. Address
Key 809, care American Florist.

Situation Wanted—In a greenhouse where I can learn the florist trade; young man, 19; Iowa or Illinois preferred. Address
Key 792, care American Florist.

Situation Wanted—By first-class grower of roses carnations and general stock; 20 years' experience; married; best references Address
Key 804, care American Florist.

Situation Wanted—A young general all-'round greenhouse man wishes position near Chicago; eight years' experience; state wages in first letter.
J. HANLON,
No. 2056 Gratiot Ave., Detroit, Mich.

Situation Wanted—By all-'round florist and practical landscape gardener; twelve years' experience three years in Europe and nine years in the United States Address
Key 813 care American Florist.

Situation Wanted—By steady allround grower 8 years in last position sn charge of section of roses; 12 years on private places in England, 16 years on commercial places in America; first-class reference from last employer. Address
Key 815, care American Florist.

Situation Wanted—As assistant on first-class commercial or private place; single aged 23; eight years' experience; best of references; near Chicago preferred. Address
Key 791 care American Florist.

Situation Wanted—As working foreman or grower; thoroughly understands growing roses, carnations, 'mums bulbs and a general line of pot plants; life experience in all branches of the business; middle age, single; good references given. Address Key 794 care American Florist.

Situation Wanted—By first-class man for private place near Chicago; understands the growing of carnations roses chrysanthemums, violets etc; no objection to commercial place; 13 years' experience in first-class places (English). Please state full particulars. Address
Key 761, care American Florist.

Help Wanted—Gardener, one familiar with orchids preferred. Address
Key 797, care American Florist.

Help Wanted—Married man for position near Chicago; acquainted with nursery and farm work; state age and wages. Address
Key 811, care American Florist.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to
WRIGHT'S FLOWER SHOP,
224 W 4th St., Los Angeles, Calif.

Help Wanted—Competent grower of roses carnations and a general line of bedding plants; must be a good worker and know his business; wages according to ability.
CARL HIRSCH, Hillsdale, Mich.

Help Wanted—Young man with some experience to work in greenhouse on small retail place; will board with family; state wages wanted with board and room. MRS. H. E. SMITH & CO.,
Lock Box 168, Berlin, N. H.

Help Wanted—A good designer and decorator; must be experienced and able to give references from past employers and be sober and industrious. None other need apply. Address
Key 795, care American Florist.

Help Wanted—First-class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references,
Key 747, care American Florist.

Help Wanted—A man to act as foreman on truck farm near Terre Haute, Ind.; a good position for a good man. Give reference in detail, regarding ability, character, whether married or single. DAVID DICKSON PRODUCE CO.,
Office: 1107 Commonwealth Bldg., Pittsburg, Pa.

Wanted—To buy a place, part cash, balance on time from 5,000 to 10,000 sq. ft. of glass, in Illinois or Indiana; middle or southern part preferred; must be reasonable and in good condition.
Key 806, care American Florist.

Wanted—To buy from 5000 to 10 000 feet of glass in the vicinity of New York, or two or three acres of land with water supply and shipping facilities; with full particulars address. A. S.
care American Florist, 1133 Broadway, New York.

For Sale or Rent—Greenhouses, 3600 feet glass, new, hot water system, fine condition, in growing city; R. R. center; rare opportunity.
Key 814, care American Florist.

For Sale—Greenhouses located at Muncy, Penna.; 30,000 feet of glass
THE MUNCY BANKING COMPANY,
of Muncy, Penna.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down balance on time to suit purchaser.
Key 799, care American Florist.

For Sale—Greenhouse property, 12,000 feet of glass, one large 9 room house, one 6 room house, large barn, 6 acres of good land; established 36 years; good business; situated in Mass.; $4,000 cash. Key 801, care American Florist.

For Sale—Greenhouses in good condition 3 houses 17x70 a good 10 room house good sized barn 1 acre of the best carnation soil, population 4,000 no competition steam heat city water in city limits fine chance for some one. Address.
A. RICHTER, Sturgis, Mich.

For Sale—Three houses, 100 ft., Moninger; three houses 75 ft., Deitsch, open; three houses, 34 ft Deitsch, open; 1 house, 36 ft., closed. Eight-room residence adjoining plant; boiler and coal bins in basement. H use and plant all piped and heated by steam. Store, 18x20; ice boxes, cash register, counters and other fixtures. Barn, 18x24. This plant is situated on corner lots, 150x150. Planting ground 75x100. Located in an excellent city on the east coast of Lake Michigan and plant is centrally located near churches and business district and in residence section. The store combines the plant, adjoining the same. For particulars address
Key 790, care American Florist.

Situation Wanted.

As foreman or manager by an expert grower of roses, carnations, 'mums, violets, fancy and blooming potted plants; also bedding plants, bulbous stock, etc.; can handle help to the best advantage; American, age 32; 17 years' experience; married; strictly temperate.

Key 807, care American Florist.

Situation Wanted.

A NO. 1 FLORIST, capable manager, is open for engagement; 16 years' experience in every branch of the trade; up-to-date designer and decorator; married; strictly sober. Unless you want a first class man, do not reply. Address

Key 805, care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,
125-133 W. Superior St. CHICAGO, ILL.

FOR SALE.

Wholesale and Retail Floral Establishment, well stocked, consisting of 12 large greenhouses, the majority erected within the last two years; 2½ acres of land; 12-room brick residence; shop, barn, wagon, implements, tools etc. Everything in **first-class** condition. Owner has been in business 25 years and wishes to retire. For terms, address

C. CRAMER, R. F. D. No. 4,
Salt Lake City, Murray Station, **Utah.**

WANTED

Position as head gardener or superintendent, by thoroughly practical, active, energetic man; up to date in growing plants, flowers and vegetables under glass; ornamental planting care of trees, shrubs and hardy plants, and the developement and improvement of public and private grounds; Scotchman, 48 years of age, married, no children; please state salary and other particulars in first letter. Address **A. B., care American Florist,**
1133 Broadway, New York.

FOR SALE AT A BARGAIN

Second hand and in good order.

10 Horizontal Tubular Boilers with fire fronts; 66 inches diameter; 16 feet long; 52 4-inch flues; pressure 90 lbs. steam.

D. & G. KAUFMAN,
549 Rookery Bldg., Chicago

Roses, Carnations, Bulbous Flowers

We can supply Quantity, Quality, Service.
Write for Special Prices in Large Lots.

BRIDES and MAIDS Especially Fine, Select, Medium, Short.

And everything else in season. We can supply anything to be had on the Chicago Market. Remember to keep on growing we have simply got to please, and you might as well get the benefit.

ZECH & MANN, Wholesale Florists, Long Distance Phone Central 3284, 51 Wabash Avenue, **Chicago**

St. Louis.

ROSES MORE PLENTIFUL.

Of late the first few days of Lent have showed quite a falling off in society events and this year it is thought will be the same as others, and that the market will not suffer materially from its observance. However, carnations have become decidedly plentiful, and good, clean stock has sold for $1 per 100. Roses, which have been very scarce, have at last started to accumulate, and if the bright weather continues, will become a glut. Violets have felt the slump and fell to $1 per 1,000, but the growers have curtailed their supply and in consequence the price rose to $2.50. Bulbous stock of all kinds is now very plentiful and the troubles of the commission man have begun again.

NOTES.

City Forester Meyer has succeeded in having the ordinance passed prohibiting the ice men and ice cream dealers from depositing salt water in the gutters, thus injuring the roots of the trees. An ordinance has also been passed compelling the use of electric engines through the railroad tracks at Forest park. This affects the Wabash system.

Rudolph Kaag, a native of this city, who has been employed in Chicago, is visiting his folks prior to going east to a new position.

William Smith Wholesale Floral Co. handled one day last week over 75,000 California violets and sweet peas from local growers.

Riessen Floral Co. had the decorations at the Planters hotel at a banquet given to Joe Folk, late democratic governor of the state.

Adolph Brix, J. F. Windt and Charlie Schoenle are busy endeavoring to bring the crepe pullers to justice.

John Burke is with us again and will be manager at Julius Schaeffer's store on Sixth street.

Young & Sons expect a fine supply of lilac, lilies and other bulbous stock for Easter.

Visitor: F. Lautenschlager, of Kroeschell Bros. Co., Chicago.

W. F.

PHILADELPHIA, PA.—C. M. Keegan put up a splendid decoration in Horticultural Hall on the occasion of a recent dance. The hall was hung with smilax and the stage was banked with pink and white azaleas, marguerites and Easter lilies.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs.. 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.
15 Province St. and 9 Chapman Place, **BOSTON, MASS.**
WHOLESALE COMMISSION FLORISTS
Hardy Cut Evergreens and Florists' Supplies
We have the stock and can fill all orders, large or small.
FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Southern WILD SMILAX
Write, wire or telephone the introducers.
Caldwell The Woodsman Decorative Co.
EVERGREEN ALABAMA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

John P. Scherer, 636 Gardener St., Union Hill, N. J.
Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Galax, Ferns, Etc.
New crop, fresh from the patch, prices as follows:
Bronze and **Green Galax Leaves**....$0.50 per 1000
Fancy and **Dagger Ferns**..... 1.00 per 1000
Green Leucothoe Sprays..... 2.50 per 1000
Bronze Leucothoe Sprays..... 4.00 per 1000
Rhododendron Sprays..... 2.00 per 1000
Mountain Laurel..... 2.00 per 1000
Discount on large orders. Fifteen years experience enables me to guarantee perfect satisfaction 250 customers now in U. S. Send cash with first order.
J. A. PRITCHARD, Elk Park, N. C.

Southern Wild Smilax.
Log Mosses, natural and perpetuated, now ready for shipment.
E. A. Beaven,
EVERGREEN, ALA.

SOUTHERN WILD SMILAX
Give me your orders, will save you money.
Write or wire for prices.
Satisfaction Guaranteed.
Harrison & Pinkston,
LOUISVILLE, ALA

FORT WAYNE, IND.—Frank Fisher, 57 years of age, who had been working here about three years, committed suicide by swallowing carbolic acid February 18. Despondency over his ill health is thought to be the cause for the rash act. Deceased leaves a wife and four children.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75
	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	4 00
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00
ROSES, Our Selection, $5.00 per 100	
Carnations,	Per 100
Fancy	$ 3 00
Good	$ 1 50 to 2 00

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Pittsburg.

STOCK PILING UP.

The Lenten season, coupled with bright weather, caused stock of all kinds to pile up in the wholesale houses and for the first time in quite a while buyers are able to buy at their own figures. Carnations, probably, are the slowest sellers, although no fancy price can be obtained for roses any more. Bulb stock is more plentiful with the usual result of affecting the two first named flowers. Lilies and American Beauty roses are still in good demand. Violets, both single and double, also sweet peas, are here in quantities at low prices.

NOTES.

E. C. Ludwig had the decoration at the memorial services of the F. O. E. at the Grand theatre, February 28. The decoration was very artistic and won the admiration of all present.

The United States Floral Co., of DeHaven, was incorporated at a capital of $325,000. The incorporators are A. T. Lorch, I. H. Hoffmeister and L. Bourche.

The McCallum Co. states that the violet trade is very good. This firm is also selling a good many gardenias.

P. J. Demas is the proud possessor of a 14-pound boy, which was presented to him February 27.

Julius Ludwig left March 3 with the tariff club for the inaugural at Washington.

J. B. Murdoch & Co. are receiving a nice cut of Longiflorum lilies.

Visitors: H. N. Bruns and E. Wienhoeber, Chicago; J. H. Milner, Ada, O. J.

ALBION, N. Y.—J. T. Duquette's loss in the recent fire was much heavier than reported. He lost 100 boxes of glass on one house, his hot water apparatus cost $800 and the potting house, new propagating house and other structures and their contents were destroyed bringing his loss up into the thousands. Mr. Duquette will rebuild using cement extensively.

—THE—

J. M. McCullough's Sons Co.

Wholesale Commission Florists.

CONSIGNMENTS SOLICITED.

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Wholesale Flower Markets

ST. LOUIS, Mar. 3.	
Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 2 50
" " short stems	50@ 1 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	5 00@10 00
" Ivory	5 00@ 8 00
" Killarney	6 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	6 00@10 00
" Richmond	6 00@10 00
" Alice Roosevelt	5 00@ 8 00
Carnations, common	1 50@ 2 00
" fancy	2 00@ 3 00
Freesia	1 50@ 2 00
Hyacinths Romans	1 50@ 2 00
Lily of the Valley	3 00
Violets	15@ 25
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 00	
Smilax	12 50
CINCINNATI, Mar. 3.	
Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Hyacinths, Roman	2 00@ 3 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Tulips	4 00@ 5 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00
BUFFALO, Mar. 3.	
Roses, Beauty, special	6 00
" " fancy	4 00
" " shorter	2 00@ 3 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 4 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00
MILWAUKEE, Mar. 3.	
Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	1 50@ 3 00
Daffodills	2 00@ 3 00
Hyacinths, Roman	2 00
Lilium Giganteum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch, 25	35
" Sprengeri, "	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz.	1 75

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Who esale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Waterproof Crepe Paper.

IMPORTER'S CONTENTION OVERRULED.

The protest of A. Hermann, of New York, before the United States board of general appraisers was overruled by Appraiser Fischer. The merchandise in question was a heavy crepe paper, said to be waterproof, such as is used by florists in wrapping around flower pots. It was classified by the collector as crepe paper and assessed with duty at the rate of five cents per pound and 15 per cent ad valorem under the specific provision therefor in paragraph 397, tariff act of 1897. The importer claimed it to be dutiable property at 25 per cent ad valorem under paragraph 402 of said act, as paper not specifically provided for. The appraiser decided that the term crepe paper in the tariff act is not confined to crepe tissue paper, but applies as well to similar and heavier papers which have been subjected to the creping process.

White Lilac In good supply, both double and single.
Violets
Carnations Coming in quantities.
Killarney Fine quality. Superior to any in Chicago.
Bulb Stock in good supply. We can meet your wants.
And all other *Cut Flowers & Greens.* Best that can be grown and packed with care.
Send for Our Catalogue of Florists', Growers' and Nurserymen's Supplies.

Carnation Green Fluid Dye
For St. Patrick's Day.
50c per pint;
75c per quart; 10 quarts for $6.00.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496 Private Exchange All Departments. **Chicago**

Chicago.

LENTEN DULLNESS.

The market has been very weak with large supplies of stock and not sufficient demand to move off the surplus even on forced sales. The poorer stock in all lines as well as the carnations with weak calyces were found to be almost impossible to move. The only exception to the above was in the item of American Beauty roses, which were somewhat scarce. Prices, however, did not rule any stronger in this line, because of the abundance of other stock, and the fact that the most of this stock was not really high grade. Other roses were very plentiful with Bride and Bridesmaid showing fine quality as well as quantity. Plenty of other roses could be had at easy prices, and quality, for the most part was good. Carnations came in very freely but the soft and changeable weather was reflected in their quality, the stems not seeming to hold up as well as usual. Bulbous stock is very plentiful, with unusually fine flowers the rule. Some outdoor tulips have already made their appearance. Violets have been a glut on the market with some sales made at sacrifice prices for large quantities. The heavy increase in the supply of local single violets has affected the whole line, and both doubles and singles were very weak.

NOTES.

Chas. A. Schnell has accepted a position as manager of the floral department of the L. S. Donaldson Co.'s Glass Block at Minneapolis, Minn. This is an important position, as, besides the large amount of cut flowers and plants grown the outskirts of the city, the trade calls for large shipments of cut flowers from this market. Mr. Schnell's work as a designer has been frequently illustrated and commented upon in our columns, and here he will have a much wider scope for his undoubted abilities, and we wish him every success.

Marshall Field & Co. have adopted a unique advertising feature in connection with their spring opening by displaying a number of hats trimmed with the so-called Japanese air plants and natural flowers. This was hailed by the daily papers as the latest fad in millinery, and certainly could this walking flower garden become a habit it would prove a great boon to the trade, especially in the spring when flowers are both cheap and plentiful.

The E. F. Winterson Co. report the receipt of a carload of hardy Belgium stock. Many new shapes in baskets are shown in the Easter novelties just received by this firm's supply department.

Chas. Frueh, Sr. and Jr., were in town last week making arrangements for the erection of four new greenhouses. The John C. Moninger Co. of this city will furnish the material.

John Degnan, of the E. F. Winterson Co., has the sympathy of the trade in the death of his father early Monday morning after a lingering illness.

Ernest Oechslin, who suffered from a serious gunshot wound is now out of danger, but is still too weak to see anyone.

Chas. W. McKellar
51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty
Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.
Send for Complete Catalogue.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
I have a plan for saving you Money. Write me.
21 Wabash Avenue, CHICAGO.

At Washington park the houses are very gay just now with primulas, cinerarias, begonias and other spring flowers.

Christ. Blameuser, of Niles Center, has opened a stand on the Flower Growers' Market in charge of his brother John.

Peter Tremulos, of Aurora, who is well known on the market here, has opened a branch store in Rockford.

In the greenhouses at Lincoln park, Alois Frey has a fine show of amaryllis in bloom this week.

Regular monthly Florists' Club meeting Thursday evening of this week at the Union restaurant.

Frank Farney, of the A. L. Randall Co., is in town again after a most successful trip.

Mrs. E. A. Kanst has been very ill at the Lakeside hospital, but is now improving.

Chas. Balluff, formerly of this city, is now with Wm. Graff, of Columbus, O.

Visitors: Wm. Graff, Columbus, O.; W. W. Coles, Kokomo, Ind.; A. Elberfield and wife, Kansas City, Mo.; Mrs. H. B. Dudley, of H. F. Drury's, Galesburg; Geo. E. Baldwin, of Carrillo and Baldwin, Summit, N. J.

SPRINGFIELD, O.—The Leedle Rosery Co., of this city, has increased its capital stock from $10,000 to $20,000. This step was taken by the stockholders in Columbus, February 25. The company also contemplates the building of two more greenhouses this spring on West State street. A number of other improvements will be made.

PETER REINBERG,
35 Randolph Street, CHICAGO.
Phone Central 2846.
Largest Grower in the world.....
Will Take Best Care of Every Order.
1,800,000 Feet of Glass.

PRICE LIST:

Carnations $1.50 to $2.50 per 100

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$5 00
36-inch stems	4 00
30-inch stems	3 00
24-inch stems	2 50
20-inch stems	2 00
15-inch stems	1 50
12-inch stems	1 00
Short stems	75

	Per 100
MRS. MARSHALL FIELD	
Extra select	$10 00 to $12 00
Medium	5 00 to 8 00
RICHMOND and **KILLARNEY**	
Select	10 00 to 12 00
Medium	5 00 to 8 00
GOLDEN GATE	4 00 to 8 00
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and **BRIDESMAID**	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
VIOLETS	1 00
ADIANTUM	1 00 to 1 50
ASPARAGUS	50c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

WEILAND & RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

E. F. Winterson Co.

45-47-49 Wabash Ave, CHICAGO.
Long Distance Phone, Central 6004.

Wholesale Cut Flowers and Florists' Supplies

All cut flowers in season at Chicago market quotations

Write for our NEW SUPPLY CATALOGUE. It will interest you.

Consignments of CUT FLOWERS Solicited.

"THE BUSIEST HOUSE IN CHICAGO"

Roses, Carnations,

And All Seasonable Flowers in Quantity.

J. B. Deamud Co.
51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers

All telegraph and telephone orders ——given prompt attention.——

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO, Mar. 3.

Roses, Beauty, extra select		5 00
" " 36 in		4 00
" " 30 in		3 00
" " 20 to 24 in	2 00@	2 50
" " 15 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select	10 00@	12 00
" " medium	6 00@	8 00
" Chatenay, select		10 00
" " medium	6 00@	8 00
" Golden Gate, Uncle John	4 0 @	8 00
" Kate Moulton	4 00@	8 00
" Killarney, select	10 00@	12 00
" " medium	5 00@	8 00
" Mrs. Marshall Field, select	12 00@	15 00
" " " medium	6 0 @	10 00
" Perle	5 00@	8 00
" Richmond, extra select	10 0 @	12 00
" " medium	5 00@	8 00
Carnations	1 00@	3 00
Callas, per doz.	2 00@	2 50
Cattleyas, ($9.00 per doz.)	60 00@	75 00
Daisies	50@	2 00
Gardenias, per doz		6 00
Hyacinths, Roman	3 00@	4 00
Lilium Harrisii, per doz.	2 00	15 00
Lily of the Valley	3 00@	4 00
Pansies	1 50@	2 00
Stevia	1 00@	2 00
Sweet Peas	75@	1 50
Tulips		3 00
Violets, single	50@	1 00
" double	50@	1 00
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	4 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		2 00
Galax, green, per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50 lb. case		5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

BANQUET OF THE NEW YORK FLORISTS' CLUB, FEBRUARY 27.

New York.

BAD WEATHER AND LENTEN SEASON.

Lent was ushered in with torrents of rain, which continued practically for 24 hours and as a consequence business was for several days almost at a standstill. A sudden change to cold weather the latter part of the week probably contributed somewhat to reducing the supply of stock received in the wholesale district; but prices kept dropping. Special American Beauty roses went down to 40 and 50 cents, with a decline in teas. The best carnations sold for four cents and were slow at that. Violets found their level on the street corners, at about what was offered, which is never a high price. Yellow narcissus, sweet peas and lily of the valley were also being sold on the streets.

NOTES.

Chas. Millang's new store, corner of Sixth avenue and Twenty-seventh street, now presents a very fine appearance, the outside being pretty much all plate-glass. Passers by are constantly being tempted in by the fine displays of seasonable stock. The interior is well fitted up for carrying on a wholesale cut flower business. As the buyers for the big retail stores all have to pass it, or go in, they generally compromise by going in.

The retail store opened last fall by members of the Trepel family of Brooklyn, at One Hundred and Twenty-ninth street and Seventh avenue, Manhattan, has been closed. It was under the management of Jack Trepel, who, being a bright young man, will doubtless soon again get into business. It appears that the chief cause for closing was that the locality had already enough stores.

The next meeting of the New York Florists' Club will be held in the Grand Opera House building, March 8, at 8 p. m. It will be rose night and promises to be an interesting event. W. H. Elliott of Brighton, Mass., will give a talk on "Roses" which is expected to be interesting and instructive.

Abram Jacobs, who recently took the Chas O'Reilly store on Columbus avenue, has been doing some good work in decorating, one of his latest jobs being a fine decoration for a ball at the Twenty-second Regiment armory.

Banquet of the New York Florists' Club.

The annual banquet of the New York Florists' Club was held at Shanley's, Broadway and Forty-second street, on the night of February 27. About 160 were present, a good proportion being ladies. The decorations of the hall, thanks to Alex. McConnell, chairman of the committee on decorations, were elaborate. On each table were vases of fine roses and carnations; the walls being tastefully draped with southern smilax. There was music by an excellent orchestra and several professional artists had been engaged for the occasion; these entertained the company with songs, recitations and dancing.

In addition to Patrick O'Mara, who made the speech of the evening in responding to the toast "Our Night," brief addresses were made by S. S. Butterfield (for the press), A. J. Guttman (for the ladies), John T. Withers, Harry and W. J. Eliott, Turner, John Young and Chas. H. Totty, the latter's subject being "Mum's the Word." A pleasing feature of the event was the presentation to Ex-President Weathered, of several handsome pieces of silverware for table use. The presentation speech was made by Walter F. Sheridan, who paid a tribute to the worth of the retiring president. Mr. Weathered responded in a feeling manner. At the close W. C. Rickards led the audience in singing "Auld Lang Syne." Noteworthy visitors were Chas. Vick, Rochester; M. Hart, Buffalo; Leonard Vaughan, Chicago.

Letters of regret were read from Governor Hughes, Mayor McLellan, J. C. Vaughan and others, including Wm. C. Stewart and the president of the Society of American Florists. A melancholy interest attaches to the following remarks by the late E. V. Hallock, who died suddenly March 2; these being the last remarks made in public by our highly respected president.

In his opening remarks he expressed his delight at seeing such a pleasant gathering, and especially was he pleased with the idea of the ladies being present. He called attention to the very good feeling and lack of jealousy among the members of the club, many of whom are in very close competition with each other. He likened the florist to the volunteer who presses on through dark and gloomy days of war, but finally his days of gladness come. He likened the banquet to one of the bright spots in the routine life of a florist. He emphasized the sterling qualities of the members of the club which are well proven by the manner in which it is conducted and the trade interests developed. In closing he extended a most hearty welcome to the visitors and friends and bade them enjoy themselves and be jolly. Little did anyone think how soon this excellent and worthy man would be removed from our midst.

The toastmaster then called upon Patrick O'Mara for the first speech of the evening, "Our Night." The speaker said it was a long time since he had been privileged to speak on a subject so dear to him, as the one given him for the occasion. He thought there were many pleasant memories attached to "Our Night," for all who had marched shoulder to shoulder as members of the New York Florists' Club. These memories were shared by the "partners of their joys and sorrows," in the case of the most of the florists, even if they were not with the speaker. He said he thought the ladies would find that the members of the club had a very enjoyable time when they took a night off, as they were doing on this occasion.

The speaker mentioned the fact that the club had its sorrows as well as its joys, and called for a silent toast in memory of the departed friends. He called attention to the remarkable advances made by the club and said that in his opinion it was foremost in this country among organizations of its kind. Having been born of necessity for organization it had well fulfilled its mission, the motto having been one for all and all for one. Within its doors ideas are exchanged and much benefit derived by the members from such discussions, social as well as business interests had been advanced and many bonds of friendship formed at the club meetings.

The "Hub" Centrally located between the two markets

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK.

Consignments Solicited.

Telephone 7062 Madison Square.

J. K. ALLEN, Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

Traendly & Schenck,

WHOLESALE FLORISTS,

44 West 28th Street, Phones, 798 and 799. New York City.

HENSHAW & FENRICH

WHOLESALE FLORISTS

44 West 28th St., Phones: 325 and 5583 Madison Square. NEW YORK

Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS

J. J. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square. 39 West 28th Street, NEW YORK

Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

A. L. YOUNG & CO

WHOLESALE FLORISTS,

54 West 28th Street, NEW YORK.

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

—FLOWERS SHIPPED BY—

JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

19 W. 28th St., NEW YORK.

Telephone 1998 Madison Square.

Millang Brothers,

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41 W. 28th St. NEW YORK.

N. C. SCHREINER

Wholesale Commission Florist

ROSES A SPECIALTY

41 West 28th Street, Telephone 6259 Madison Sq., NEW YORK CITY

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WHOLESALE FLORIST,

61 West 28th St., NEW YORK CITY

Long Distance Telephone, 4463-4 Madison Sq.

KESSLER BROS.

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CUT FLOWERS

Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere. Prompt and satisfactory. Consignments solicited

ALFRED H. LANGJAHR

WHOLESALE FLORIST,

55 W. 28th Street, NEW YORK.

All flowers in season. Consignments of first-class stock solicited.

Telephones, 4626 and 4627 Madison Sq.

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg. Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Mar. 3.

	Per 100
Roses, Beauty, special	40 00@50 00
" " fancy	35 00@40 00
" " extra	25 00@30 00
" " No 1	15 00@20 00
" " No. 2	5 00@ 6 00
" " No. 3	2 00
" Bride, Bridesmaid, extra and special	6 00@ 8 00
" " No. 1	3 00@ 5 00
" " No. 2	2 00
" Killarney, special	12 00@ 15 00
" " extra	6 00@ 8 00
" Richmond	2 00@15 00
Carnations fancy and special	3 00@ 4 00
" common	1 50@ 2 00
Callas, per doz.	75@ 1 25
Cattleyas	40 00@60 00
Daisies	50@ 2 00
Freesias	50@ 1 00
Gardenias, per doz.	1 00@ 5 00
Hyacinths	50@ 2 00
Lilac, Cut, per bunch	75@ 1 25
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	1 50@ 2 50
Mignonette, per doz.	30@ 60
Narcissus (Paper White)	2 00@ 2 50
" (Yellow)	1 00@ 1 50
Sweet Peas, per doz bunches	1 00@ 1 50
Tulips	1 00@ 1 50
Violets	25@ 40
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

FORD BROS.,

Receivers and Shippers of

Fresh Flowers

48 West 28th St., NEW YORK.

Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florists

55 and 57 West 26th Street,

Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., To out-of-town Florists: We are in the Heart of New York

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave. & W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising

V. S. DORVAL, Secretary.

Philadelphia.

LENTEN SEASON FELT.

There has been a perceptible falling off in business since folks have all taken to going to church on week days. Of course there are the usual small dinners and anniversary occasions, etc., and those for the inevitable, which keeps the wheels from stopping altogether. These demands have managed so far to keep stock from accumulating. Roses are becoming much more plentiful and prices, owing to the light demand, are receding, the difference being at least 25 per cent below those of a week ago. American Beauty is still scarce, there being little or no surplus even with the light demand. Carnations are fine and sell fairly well. Some new crops of freesia of good quality are coming in; $3 to $4 is the price. Sweet peas are selling well and some fine flowers are seen. Princess of Wales violets are now having their innings, some very choice stock coming in. Double violets are also plentiful, there being gospel measure in the bunches of 50. Bulbous stock, particularly daffodils, is seen in quantity and prices rule low ranging from $1.80 to $2.50 per 100. There is a splendid assortment of flowering plants coming into the market at present, azaleas, rhododendrons, primulas, pans of bulbous stock, cinerarias, Easter lilies, pots of lily of the valley, daisies, etc., all of which are utilized to great extent in window decoration. Pennock Bros' window feature last week was well flowered apples, almonds, etc. Paddy's day is next in line and quite a few of the growers offer the Simon pure shamrock in pots and pans of various sizes from one inch in diameter upwards. W. K. Harris is the originator and leader in this novelty and now grows annually about 75,000 pots. He has two sizes of shamrock-shaped pots and these are good sellers. The majority of this large stock goes to department stores who give it away as an advertisement. A large lot is, however, handled by the trade and much of it is shipped over the country.

FLORISTS' CLUB MEETING.

The March meeting of the Florists' Club held on Tuesday evening was a very lively affair. The feature was the paper of Wm. Kleinheinz, on "Gardenias." This gave the results of his experience and was very instructive, being thorough and filled with ideas for the grower of this plant. An interesting discussion followed. The question as to whether Rose My Maryland went dormant in the middle of winter, brought many to their feet. Mr. Samptman, who has had great success with this variety, claimed that it required more heat than any other of the forcing varieties and that with his firm it was quite the equal of other winter flowering sorts, in fact nothing they had grew as freely; they had rooted 60,000 cuttings from 1,200 plants since last fall and the stock plants were still vigorous and full of growth and throwing up strong shoots with buds. Others spoke of its going dormant with the same temperature given the other popular sorts growing in the same house and the opinion seemed to be that under special treatment it could be kept in bearing the season through. The Pennock Meehan Co. exhibited a superb vase of White Killarney rose from the Waban Rose Conservatories, Natick, Mass. Wm. H. Allabaugh, Perkasie, exhibited a fine white seedling antirrhinum, and Wm. Klienheinz a white seedling carnation. John Westcott received a hearty welcome home from the Isle of Pines and Chairman Grakelow started a subscription for a club piano. The topic for the April meeting is to be a "Trip to the Tropics," being an account of the recent visit of Robert Craig and John Westcott to the Isle of Pines

NOTES.

J. Heacock attended the exhibition of the Boston Market Grower's Association last week and staged 100 flowers of his new seedling carnation, Dorothy Gordon. The flowers carried well and attracted much attention. Mr. Heacock says that compared with Enchantress, which has done very well with them this season, Dorothy Gordon up to this time has produced 30 per cent more flowers and realaized 50 per cent more money, which is certainly an excellent showing.

The sympathy of the trade goes out to W. K. Harris in the loss of his daughter Florence, wife of Dr. D. A. Stein, who died from the effects of an operation for appendicitis. The funeral was held on Monday last. Mrs. Stein was a great favorite with all who knew her and the room was filled with beautiful flowers, clusters and wreaths in combinations of the choicest flowers.

John Westcott returned from his trip to the Isle of Pines and is very enthusiastic over the climate of this garden spot as a winter resort. He says he enjoyed every minute of the journey. Robert Craig and Julius Roehrs are to return this week.

The Leo Niessen Co. says it is satisfied with the Lenten season as the lower prices are moving the stock nicely; choice Killarney and Richmond roses and acacia were the features the past week.

Geo. Samptman has severed his connection with the Florex Gardens at North Wales and will go into business on his own account.

W. E. McKissick & Bros. are right in it with choice Princess violets; they are certainly fine and touch up the stock in any store. K.

Boston.

FUNERAL WORK PLENTIFUL.

The opening week of the Lenten season brought a reversal of the fine trade situation as enjoyed through the present month, which, although the shortest one of the year, leads all others to date in volume and receipts. From now on funeral requisites will be the principal reliance of the trade and at present the demand is averaging up encouragingly and is well distributed among the dealers. A rapid recovery from the short market of the past two weeks has been made and growers are well supplied with all the leading requirements. Bulb stock is surprisingly cheap and displayed in great quantities. Yellow windows are all the rage and prices have dropped to the bottom. Roses are being received in larger quantities each day and, while still attractive, are gradually sliding back to a more moderate price. American Beauty has dropped to $6 per dozen for the best. Killarney and Richmond run very close together. Good carnations are rather scarce and the greater part of the stock is only medium.

NOTES.

Andrew Muir, for many years employed on the Coolidge estate at Watertown, and long a familiar figure around the floral centers as violet salesman for the concern, is confined to his home as a result of being waylaid and assaulted while entering his house. Mr. Muir was known to always carry considerable money on his person and to secure this the highwaymen assaulted him with a window weight. After beating him until he lost consciousness he was relieved of $60, the robbers making their escape. Mr. Muir is well over 60 years of age and while hopes are held out for his recovery his condition is extremely precarious.

F. J. Dolansky, of Lynn, who has made wonderful strides since establishing himself six years ago, is planning an addition to his plant of 30,000 feet of glass. Along with the greenhouse department an attractive store is conducted in both branches.

R. E. Lassman, the dean of the growing fraternity, is right in line with the younger element with a crop of high class novelties. Among them we noted anemones and ranunculus in fine shape.

The salesmen of the Music Hall Market have subscribed an exquisite silver cup of the most artistic design for competition at the exhibition March 20. B.

Massachusetts Horticultural Society.

Mrs. Charlotte R. F. Ladd of Sturbridge was the speaker before the Massachusetts Horticultural Society at Horticultural Hall, Boston, February 27, her subject being "Rural New England." The paper ran perhaps more on agricultural than horticultural lines, but was well thought out and interesting. In her closing remarks the speaker said: "No words can fittingly describe the power of a beautiful home. Once begin to beautify the home and you have more respect for it and your boys and girls will love and reverence it and be stronger, purer and better. The success of the farm does not depend any more upon the crops which it produces than it does upon the intelligence, contentment and happiness of its people. The New Englander, no matter how much he may be westernized, or where he has traveled, keeps an unexpected fund of sentiment for the New England home which is not excelled anywhere in the country. We have some of the largest manufacturing establishments in the world and no finer fruits or vegetables are raised anywhere."

BEAVER FALLS, PA.—In the very near future the Pittsburg & Lake Erie Railway Co. intends to begin the erection of the greenhouses from which the station lawns of its entire lines will be supplied with flowers on property owned by the company near the Beaver station.

Spring Flower Show

TO BE HELD UNDER THE AUSPICES OF THE

Boston Co-operative Flower Market

Send for premium list. All are invited to co-operate.
To be held **March 20th,** in New England's leading market

MUSIC HALL PLACE, BOSTON, MASS.

All information promptly given by addressing

JOHN McFARLAND, Secy., North Easton, Mass.

Daffodils, Single and Dbl. $2.00-$4.00 per 100
Tulips, Single and Dbl. $3.00-$4.00 per 100
Valley. $2.00-$4.00 per 100

The Leo Niessen Co.
Wholesale Florists, 1209 Arch St., Philadelphia, Pa.

Freesia, pure white $3.00 per 100
Lilac, white 50c per bunch
Callas $1.50 per dozen

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Asparagus Plumosus Nanus.
Extra large heavy Strings, 50 cents each.
W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.
(Limited)
The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

J. B. Murdoch & Co.
714 Penn Avenue, PITTSBURG, PA.
All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.
W. E. McKissick & Bros.
WHOLESALE FLORISTS,
Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.
ABSOLUTELY THE BEST POSSIBLE SERVICE.

BEST VIOLETS - BABY PRIMROSES - SWEET MIGNONETTE
Also a full line of Everything Seasonable.
McCALLUM CO., Inc. Pittsburg

Washington.

INAUGURATION DISPLAYS.

The city is apparently one of flags and bunting, for there are very few houses or business places which are not displaying the national colors in honor of the inauguration. The court of honor, which extends along the front of the treasury, White House and state, war and navy departments, is in readiness for March 4; the garlands or roping around the columns and the baskets of flowers at the top of the shield poles, which are filled with flowers, and palms, are a grand sight to behold. The decorations at the pension office will also be the most elaborate ever seen in this city. It is in this building that the inaugural ball is held.

The grand stands, too, are decorated, and the sight as a whole reminds one of what we read of the old time Roman festivities. Washington official homes, and especially those of the incoming or holdover notabilities, will be thronged this week, and there is no doubt but what the florists will have another exceptionally busy week. Stock is coming in plentifully and there ought to be enough to supply the demand.

INAUGURAL DECORATION (BY WIRE).

The interior or court of the pension building used as the inaugural ballroom is decorated on the first balcony, on the capital of each column, with vases of rambler roses, forsythia and other spring flowers, with southern smilax and vines covering spandrels and trailing through and over arches. On the panels of the balcony between the columns are placed flowering azaleas and southern smilax and ferns radiating therefrom. On the base of the upper balcony columns, between the clumps of azaleas were placed wreaths of laurel of suitable proportions, while hanging from the center of each arch are baskets of growing ferns. The second balcony is similar to first but palm leaves and other foliage and laurel wreaths at each post, smilax and ferns drooping through and below the arches. The music stand is decorated with azaleas, ferns and spring flowers, in comformity with the general artistic effect of balcony decorations. The president's stand is decorated with American Beauty roses, orchids, spring flowers and other cut stock, Roman wreaths, in harmony with the whole scheme of decoration. Around the fountain are palms, flowering plants and aquatics, a guard three feet high decorated with vines, plants and flowers. The president's, vice-president's and diplomats' rooms are finely treated with orchids, roses, etc. The supper, side rooms, entrances, and stairways are lightly decorated with growing ferns, southern smilax, etc., the work being carried out by J. H. Small and Sons. In the decorations of the court of honor, 600 yards of heavy laurel roping were used hanging in garlands from column to column; 200 bundles of laurel, entwined with waterproof flowers, adorn the huge columns at the intersecting streets. Eight baskets, four and one-half feet in diameter, filled with palms, waterproof flowers and laurel, are set on top of the capitals of the columns. Some 200 baskets of the same material adorn the tops of totem poles, and the profusion of electric lights makes the decorations complete. The committee of inspection highly commended the work and claim it the best ever seen. Gude Bros. executed this portion of the work. According to the leading florists business has increased at least 50 per cent. G. S.

Wholesale Flower Markets

PHILADELPHIA, Mar. 3	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Lilac per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Mar. 3.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	4 00@12 00
" Chatenay	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	2 00@ 4 00
Cattleyas	75 00
Daffodils	3 00@ 4 00
Freesias	4 00
Lilium Longiflorum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Snapdragon	2 00@ 4 00
Sweet Peas	50
Violets, single	50
" double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	8 00@12 00

BOSTON, Mar. 3.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties
The finest in this Market.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

TITUSVILLE, PA.—L. J. Rowe, who has been confined to his home for several weeks is improving, and his friends hope he will soon be around as usual.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Toronto, Ont.

WITH HIGHEST GRADE ARTISTIC WORK

Dillemuth FLORIST

Can be relied on to fill all mail, telegraph or cable orders.

438 Spadina Avenue.

Long Distance Phone Main 2409

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** 838 CANAL ST.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS,

Successor to Chas. W. Reimers'

329 FOURTH AVENUE.

Louisville, Ky.

JACOB SCHULZ,

550 So. Fourth Avenue.

San Francisco, Calif.

J. B. BOLAND

Successor to Sievers & Boland,

FflorisT,

60 KEARNEY STREET.

Los Angeles, Cal.

J. W. Wolfskill,

FLORIST,

Telegraph Orders a Specialty. 218 W. 4th St.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

Toronto, Can.

Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

Washington, D. C. 14th & H Sts.

Baltimore, Md. 1601 Eutaw Place.

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Brooklyn, New York.

"WILSON"

3 and 5 Greene Ave. and 339 to 347 Greene Ave.

Greenhouses: Short Hills, N. J.

— Deliveries in —

NEW YORK, LONG ISLAND and NEW JERSEY.

M. A. Bowe

IN HEART OF NEW YORK CITY

Phone 2270 38th St. 1294 Broadway

Our Motto—THE GOLDEN RULE.

New York.

MYER, FLORIST,

609-611 MADISON AVE.

Phone 5297 Plaza.

Omaha, Neb.

Hess & Swoboda,

FLORISTS,

1415 Farnum St. TELEPHONES 1501 and L 1582

Denver, Colo.

The Park ...Floral Co.

J. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable. Cable address "Daniels, Denver."

GUDE BROS. CO. FLORISTS 1214 F ST. N.W.

WASHINGTON D. C.

Gude's

Buffalo, N. Y:

Palmer's

W. J. Palmer & Son. 304 Main St.

Albany, N. Y.

EYRES

Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL STREET,

Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dis. Bell Phone

Boston, Mass.

FRANK H. HOUGHTON

FLORIST

Telephone Connection. 396 Boylston St.

Philadelphia, Pa.

Robert Kift,

1725 Chestnut Street.

Prompt and Careful Attention given to all Mail and Telegraph orders.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST
M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.

JULIUS BAER,
138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

St. Louis, Mo.

Fred C. Weber,
FLORIST,
Established 1873. Bell. Lindell 676. **4320-4328 Olive St**

St. Louis, Mo,
Write, Wire or Phone Your Orders to
YOUNGS
1406 Olive Street,
Regular discount allowed on all orders, either Plants or Cut Flowers.
Phones Bell, Main 2306, Kinloch, Central 4981

Atlanta, Ga.

ATLANTA FLORAL CO.
41 Peachtree Street.

Detroit, Mich.

John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

Indianapolis, Ind.

Bertermann Bros. Co.
FLORISTS
..... **241 Massachusetts Ave.**

Hoffman FLORIST
59-61 Massachusetts Ave. for Commonwealth Ave.
BOSTON.

Anderson, S. C.

THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Nashville, Tenn.

Joy Floral Co.
610 Church Street.

Steamship Sailings.

WEEK ENDING MARCH 13.

Mar. 9, Ivernia, Boston-Liverpool.
Mar. 9, Saxonia, Liverpool-Boston.
Mar. 9, Noordam, New York-Rotterdam.
Mar. 9, Kronprinzessin Cecilie, Bremen-N. Y.
Mar. 10, Victorian, Liverpool-St. John.
Mar. 10, Lusitania, New York-Liverpool.
Mar. 10, Majestic, New York-Southampton.
Mar. 11, Tunisian, Liverpool-St. John.
Mar. 11, Sardinian, London-St. John.
Mar. 11, La Bretagne, New York-Havre.
Mar. 11, Manitou, Antwerp-Boston.
Mar. 11, Deutschland, New York-Hamburg.
Mar. 11, Gneisenau, New York-Bremen.
Mar. 12, Calabria, Palermo-New York.
Mar. 12, Baltic, Liverpool-New York.
Mar. 13, Hesperian, St. John-Liverpool.
Mar. 13, Grampian, Boston-Glasgow.
Mar. 13, California, New York-Glasgow.
Mar. 13, Furnessia, Glasgow-New York.
Mar. 13, Philadelphia, N. York-Southampton.
Mar. 13, Haverford, Philadelphia-Liverpool.
Mar. 13, Campania, Liverpool-New York.
Mar. 13, La Savoie, Havre-New York.
Mar. 13, Zeeland, New York-Antwerp.
Mar. 13, Celtic, New York-Liverpool.
Mar. 13, Romanic, Boston-Genoa.
Mar. 13, Dominion, Portland-Liverpool.
Mar. 13, Pennsylvania, New York-Hamburg.
Mar. 13, New Amsterdam, Rotterdam-New York.
Mar. 13, Koenig Albert, New York-Genoa.

MILWAUKEE, WIS.—The Florists' Club gave a largely attended dancing party February 11 in Miller's hall, Eighth and State streets. There were 400 present. The hall was decorated in green, with smilax, palms and ferns. A big flower show may be given at the Auditorium next November by the club, between $8,000 and $10,000 being mentioned as the amount to be expended.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL. Western Union Code.

Galveston, Tex.

Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. **Phone 1912.**

St. Paul, Minn.

HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Owatonna, Minn.

Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone **247.**
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in **WISCONSIN.**

Kansas City, Mo.

Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

THE John A. Salzer Seed Co. is mailing its catalogues from St. Paul.

TEXAS points in the San Antonio vicinity are experiencing a warm and very dry spell.

SOUTHERN FRANCE reports severe cold weather. What effect it may have on the bulb or flower seed crops of that district is problematical.

NORMAN L. COLMAN, former state secretary of agriculture of Missouri, said recently that the southern part of the state is literally overrun by a gang of men selling fake seeds and he warns farmers and others against buying of them, advising them to go to reputable seedsmen.

RESOLUTIONS by the legislative and tariff committee of the Society of American Florists, recommending that certain specific duties be levied upon various imported bulbs and plants and the amount of duty recommended for each will be printed in our next issue.

FRENCH BULB PRICES.—While the acreage planted would not seem to justify an advance over last year, yet the fact that most French bulbs were sold out early at the asked prices last season might prompt the growers to ask some advance for 1909. The hard frosts of January may also have some influence on prices.

CHICAGO.—Onion sets have been a little easier. In car lots, whites have sold at $2.70; reds and yellows as low as $1.65, but usually not of the choicest stocks. Fancy sets about 10 cents higher. Louisville is asking about the same.—Contract prices on the board of trade March 3 for grass seed were noted as follows: Prime timothy, $3.85, white clover, $15.

WASHINGTON, D. C.—In the senate February 24, Senator McCumber of North Dakota discussed at length the right of congress under the constitution to fix standards for grain and declared that present practices make impossible the sale of western grain at prices to which it is really entitled. Senator Heyburn denounced the methods of administrating the forest service in a speech which occupied two hours.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

THE Market Growers Journal says editorially, "Every seedsman has four classes of varieties, that is, specialties, novelties, standards and humbugs." It says further that "humbugs include many novelties and old varieties which are planted today by farmers because their grandfathers used them. Reliable seedsmen do not like to handle these classes of seeds, but they do it because a great many people like to be humbugged." We are quite sure that a large number of reputable seedsmen will fail to agree with the broad statement made in this editorial.

The Albert Dickinson Co. Fire.
1. Warehouse Not Injured. 2. Flax House Destroyed.

W. ATLEE BURPEE and son W. Atlee, Jr., returned February 24 from their trip to the West Indies and the Spanish main. Mr. Burpee entertained at luncheon in the Colonial room of Union League last Friday, a party of 11, consisting of C. H. Brick and J. Smith of Boston, S. F. Willard of Wethersfield, Conn., H. W. Wood of Richmond, Va., and from Philadelphia, H. W. Johnson, Robt. Buist, Capt. Burnet Landreth, Walter P. Stokes, G. F. Tull of Henry A. Dreer, S. F. Burt of S. L. Allen & Co., and Howard M. Earl. The table was decorated with tulips, narcissi and freesias. That the luncheon was enjoyed by all can be assumed by the fact that the party sat down at 1 p. m. and good-byes were not said until 5 p. m.—K.

Peas and Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH

Fire at Chicago.

Chicago.—This was the sensation of the past week here in the seed trade, the event calling for a general alarm and occupying the attention of some 32 companies of the fire department. The fire started Friday morning at 8 o'clock and fire engines were still working on the mass of scorched seed and debris Monday morning.

The building destroyed is known to the A. D. Co. as the "flax house," for handling that class of seed and bulk grains. The area covered was 100 by 180 feet, height 10 stories and basement. Building and contents practically destroyed. This does not affect the offices or seed cleaning warehouses of the firm. The firm has in Chicago 17 different buildings used as warehouses separate from the one destroyed. There was some injury by water in the basements of four houses not far distant from the one destroyed, but this has been pumped out. The loss is fully covered by insurance.

The Albert Dickinson Co. greatly appreciates the many kind expressions of sympathy received from the trade by wire and mail.

Decisions in Pure Food Law Reversed.

Washington, D. C., February 25.—No objection will be raised under the pure food and drug acts to the use in food of benzoate of soda, provided each package of such food is plainly labeled to show the presence and amount of the soda. This is the decision of the board of food and drug inspection made public today and is an amendment to previous decisions. The decision gives effect to the report of the referee board of consulting scientific experts, who decided as a result of three extensive and exhaustive investigations that benzoate of soda mixed with food is not deleterious or poisonous and is not injurious to health.

New York State Heard From.

Albany, N. Y., February 23.—Commissioner Pearson, of the State Department of Agriculture, said today that the purpose of the bill introduced last night by Assemblyman Callan, of Columbia county, requiring the marking of packages of seed, was not only to guard against fraud but to prevent New York state being made a dumping ground for low grade seed. The bill provides that seed packages must be marked with the names of the seller and with the per cent of purity.

"Canada and many states of this country," said Commissioner Pearson, "have a very clever law by which they prohibit the sale of low grade seed within their territory but allow it to be sold in other states and countries. The result is that New York state for some time has been a dumping ground for all the cheap, sterile seed of Canada and these other states. The bill does not prevent the sale of low grade seed, but provides that it must be marked so that a purchaser will know what he is getting."

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

Lily of the Valley Pips.

DENMARK GROWING CONSIDERABLE STOCK.

A very large stock of second quality crowns and planting stock are left on the hands of the German growers, and they are being put back for stock purposes so that, given a favorable season this year for the satisfactory development of the pips, they should be cheap and plentiful, and of first rate quality next fall. I have recently come across some extraordinary fine samples grown in Denmark, says a correspondent of the Horticultural Trade Journal (Eng.), fully equal to any produced in other countries, and up to the present. I have seen nothing but light sand samples, and a total absence of those strong, coarse pips containing a big percentage of prematurely grown bells. Lily of the valley has for many years been cultivated and exported to this country on a small scale by Denmark, but the trade looks like making a big spurt just now, and I hear a much larger quantity has come to this country this year. Also large quantities of planting stock are being imported into Denmark, and the acreage is being much increased; some quantities of these Danish-grown are being put into cold stores this year. After some few years' experiments they appear to be quite well adapted for this purpose, especially for very late retarding, which has always been such a difficult question. Most samples will turn out fairly satisfactory if taken out of the ice, say at six months, but to choose a sample which will come out with 80 per cent or more first class after 9 to 12 months' cold storage, requires long experience and very careful judgment. In a score of different samples from Germany there may not be more than two at all suitable for late retarding. From what I have seen of these Danish grown, they are more uniform in quality, and more generally suitable for all-round purposes, and certainly as successful for cold storage as any I have handled.

The variety, Fortin's Giant, appears to be gaining in favor. The price runs at present very high, but it is worth the extra. It has a very strong growing spike, with exceptionally large bells, and is not at all liable to rot or damp off when forcing. The spike is very much inclined to coarseness, however, and some growers find this a drawback on the market; also to my mind, the scent is weak. But Fortin's will be found to be a very reliable crown, easy to handle, and also the only variety that can be planted out in ordinary garden soil, and produce in a year or two a good crop of new forcing crowns.

Firms Securing Seed Orders From U. S. Dept. of Agriculture, Feb. 1909.

H. H. Arrington, Rome, Ga.
W. W. Barnard Co., Chicago.
John Bodger & Sons, Gardena, Calif.
F. W. Bolgiano Co., Washington, D. C.
Braslan Seed Growers Co., San Jose, Calif.
A. J. Brown Seed Co., Grand Rapids, Mich.
Chas. Johnson, Marietta, Pa.
W. W. Grenell, Saginaw, Mich.
W. W. Johnson & Son, England.
Victor Johanson, Arroyo Grande, Calif.
Jones Bros. Co., Summerville, Ga.
Lenawee Seed Co., Blissfield, Mich.
Chas. H. Lilly Co., Seattle, Wash.
Lompoc Produce Co., Lompoc, Calif.
Wm. Logan, Lakin, Kans.
A. W. Long, Piqua, Kans.
E. H. Morrison, Fairfield, Wash.
Northrup, King & Co., Minneapolis, Minn.
A. J. Pieters Seed Co., Hollister, Calif.
Jerome B. Rice Seed Co., Cambridge, N. Y.
J. C. Robinson Seed Co., Waterloo, Neb.
Rogers Bros., Alpena, Mich.
Waldo Rohnert, Gilroy, Calif.
Routzahn Seed Co., Arroyo Grande, Calif.
J. M. Thorburn & Co., New York.
Sioux City Seed & Nursery Co., Iowa.
Sluis & Groot, Holland.
Vilmorin-Andrieux & Co., Paris.
N. L. Willet Seed Co., Augusta, Ga.

WHY DELAY ORDERING YOUR

FLOWER SEED

The best that money can buy is not too good for you
We have the best we could possibly procure.
Just try us on the following for immediate sowing:

	1 oz.	tr. pkt.
Salvia Bonfire (Clara Bedman)	$2.25	$ .25
" Splendens (Scarlet Sage)	1.00	.15
" Zurich (new)	1-16 oz., $1.25	.50
Verbenas, S. & I., finest mixed	2.00	.25
Lobelia Crystal Pal. compacta, true		.25
" Speciosa, trailing		.10
Begonia Vernon	1-16 oz., 50c	.25
" Erfordii		.25
" Semperflorens Magnifica (very fine for pots)	1-32 oz., $1 50	.50

	Tr. pkt.
Stocks, Princess Alice (Cut and come again)	⅛ oz., 50c .25
Primula Obconica Gigantea, 4 colors, separate or mixed	.50
Asparagus Plum. Nanus, fresh greenhouse-grown	$4.00 per 100
Asparagus Sprengeri, fresh greenhouse-grown	.75 per 100

Ask us to mail you our latest Catalog of Seeds, Bulbs and Plants.

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Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
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Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1 50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

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Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. **Varela's Improved Onion Seeds** will give best satisfaction to growers. Insist on getting them It will pay you.
Federico C. Varela, Tenerifte, Canary Islands

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Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

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"The Best in the Market."
S. F. Schelley, Brantford, Ont., writes: "I had some of your Pink Asters seven inches in diameter. At the Horticultural Exhibition I easily took first prize with a mixed bunch of 18 blooms."
Trade packet, $1.00; half ounce, $4.50; ounce, $8.00.
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SEND FOR BOOKLET.
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The Everett B Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors, ⅛-oz. 60c; oz. $4.00
Pure white, ⅛-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
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BLOOMSDALE FARMS
BRISTOL, :: PENNA.
If you want Seeds for filling in, name varieties and quantities.

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F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

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SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
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Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
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Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

CANON CITY, COLO.—Isaac Davis is building a fine new greenhouse for the culture of vegetable plants.

PARIS, TEX.—A greenhouse on the farm of Chas. Cawley was destroyed by fire recently, together with several thousand young plants and a lot of seed potatoes and other property. No insurance was carried.

Hotbeds.

Looking back over a period of 20 years' experience with hotbeds, the writer cannot recall a failure; that is, a case where a bed froze out, burned out, or refused to heat up after being made up. Such a record is not a case of luck, it is the result of well tried methods, faithfully carried out. In a hotbed we want a mild heat, of long duration, and as nearly uniform from one end to the other as possible. To get these qualities, it will pay any operator to go to considerable trouble as, without them, the whole work may be in vain. We believe in, and practice, pre-heating: That is, the material is first piled up to heat, and allowed to heat thoroughly. It is thereby reduced in bulk, more pliable, will pack better and settle less.

When building beds, we shake the manure out thoroughly to get it even, fine, and well mixed; the more evenly it is shaken up, the more air will be imbedded, which means more heat. After a bed is made up, it is immediately covered with sash, and shutters if needed, to retain the heat. It is then allowed to reheat, say 48 hours, when, if thoroughly hot, we open, tramp down carefully, and if any soft spots are found, carefully level them. Then the soil is put in; we never use more than four inches in depth, which is ample for all purposes. For best results, the soil should be rather dry. It will absorb plenty of moisture in a few days and be just right, where a wet soil would become unfit for work.

We allow a bed to decline in heat for a week or 10 days, before planting; generally we wait until a good crop of weeds appear. Where there is the least danger of surface water, we build on top of ground, as water will destroy the heat as readily as it will put out a fire. A hotbed site should be well drained. We have used all styles of hotbeds—sunk entirely into the ground, partly, and entirely above ground. In cold localities and where manure is scarce, it is a good plan to go below the surface.

At present we have plenty of fresh manure, and after it has been used it is just in the right condition to top-dress in the summer by running it out with a manure spreader—hence we build entirely above ground one bed close to the other—allowing only 20-inch walks, which makes one solid block all uniformly warm. The frames are all 1-inch pine boards, the front only 8 inches, the back 12 inches; each frame for five sash. Thus we get along with the minimum amount of lumber, and the frames are movable anywhere. When a crop of plants is to be hardened off, we not only remove the sash, but carry the frame away entirely. And when all is over in June, the manure spreader cleans up the material and the land is planted to head lettuce, cauliflower, or celery, to recover any leached out fertility.

As regards cross bars for the sash to slide on, we have never used any, the main objection to these being the shade they cast, thus very much reducing the efficiency of a frame. There is too much wood in sash already. With regard to ventilating, our first moves are sideways, that is, we allow the center sash to remain, and slide both sash on each side, sideways, an inch or two to admit light and air between the sash. When more air is needed the ends are propped up

We are thus able to produce absolutely uniform results from end to end. Where manure must be stored to have a supply at the proper time, the best method is to have livestock tramp it solid as fast as hauled. MARKETMAN.

—TO THE TRADE—

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

For Transplanting.

		1000
Cabbage, Wakefield and Succession		$1 50
Eggplant, N. Y. Improved and Black Beauty	40c per 100:	3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain	40c per 100	3 00
Chinese Giant and Cayenne	50c per 100	
Tomato, Earliana, Chalk's Jewell, and Early June Pink	30c per 100	2 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

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HOW TO GROW THEM
BY WM. FALCONER.
The Best American Book on the Subject.
170 Pages. 29 Illustrations.
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Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

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VAUGHAN'S 1909 VEST POCKET CALENDAR FOR GARDENERS.

Full of useful suggestions and reminders for every month in the year.

Every man about the place should have a copy in his pocket.

Price 25 cents, postpaid.

AMERICAN FLORIST CO.,
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Vaughan's Seeds

ALYSSUM

Vaughan's Little Gem, extra fine strain........lb., $3.50: Trade pkt., 10c: oz., 35c

ASPARAGUS PLUMOSUS NANUS

We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds

BEGONIAS Trade pkt.

	Trade pkt.
Berna. Flowers are of very bright, carmine red: they are produced all summer and in great abundance	$ .15
Salmon Queen, new	.25
Semperflorens Red Lubecca. Fine for bedding	.25

LOBELIA

Bedding Queen. This is undoubtedly the best of the dwarf Lobelias. The best Lobelia for carpet beds, borders and pots.......Trade pkt., 15c: ⅛ oz., 25c: oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage, true	$ .10	$ .55
Hambrugin, new, for hanging baskets	.25	
MAURANDYA, mixed...¼ oz., 25c	.10	1.00

"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS

This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts. Trade pkt. (1000 seeds), 50c; 3 pkts. for $1.25

	Trade pkt.	Oz.
Howard's Star	$ .10	$ .80
Snowball...⅛ oz., 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich...¼-oz., $1.25	.25	
SMILAX, new crop... lb., $3 00	.10	.25
STOCKS, "Prince Bismarck," new giant double white	.25	
THUNBERGIA, mixed	.10	.40

VERBENAS

	Trade pkt.	Oz.
Defiance, brilliant scarlet true	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice	.15	1.00
Rose and Carmine shades	.25	2.00
Purple	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa	.05	.20
Lemon (Citriodora)	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c; ¼ oz., 50c; oz., $2.00; 2 ozs., $3.50.

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Greenhouses, Trial Grounds and Nurseries, **Western Springs, Ill.**

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Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA, care of Messrs. Maltus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

Tuberose Bulbs

GENUINE MEXICAN EVERBLOOMING

If you have never grown these for summer cutting, you have overlooked a fine thing.

1st size ....$10 00 per 1000
2nd size .... 8.00 per 1000

Each bulb will produce two to six spikes.

FURROW & COMPANY
Guthrie, Oklahoma.

FLOWER SEEDS.

	Pkt.
Begonia Dichroa, Ruby	$ .50
Stocks, Cut and Come Again, asst	.50
" Early Brompton or Nice, asst	.50
Salvia, Bonfire, Farinacea	.25
" Triumph, Zurich	.50
Petunia, large flowering, fringed and stained	.50
" Howard's Star, Inimitable	.25
Lobelia,, Lugdenensis, Hamburgia	.25
" Barnard's Perpetual, White Lady	.25
Myosotis, Stricta, 3 colors	.20
" Robusta Grandiflora, 2 colors	.20
Poppy, Alpine, fine for pots	.15

All other standard varieties in fresh stocks.
Catalogue on application
Fresh Tobacco Stems, $1.50 per 300 lbs.

W. C. BECKERT, North Side, **Pittsburg, Pa.**

DAHLIAS.

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this winter or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc. ATCO N.J

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GLADIOLUS Lemoinei and Nanceianus.

V. LEMOINE & SON, Nancy, France
Catalogues on application.

200,000 Glandioli Bulbs ¾ to 1¼ in., $2 00 per 1000; 1¼ to 1½ in. $4.00 per 1000; 1½ in. and up, $5.00 per 1000
California Privet, 1 year, well branched, $20.00 per 1000, cash with order. Nice lot of American **Chestnut Trees** at a bargain. About 56 large **Sugar Trees,** most of them sample trees. Surplus of Stone **Tomato Seed.** Ruby King Neapolitan, Bull Nose and Sweet Mountain **Pepper Seed** at a bargain.
I. & J. L. LEONARD, Iona, N. J.,
Vegetable Plant Nurserymen and Seed Growers.

East Orange, N. J.—A fire which was caused by piling hot ashes against the greenhouse wall destroyed a collection of orchids valued at $6,000 on the place of Orson A. Miller, February 25. A piece of Cattleya Trianæ alba, valued at $1,000, was one of the plants killed.

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors)
Vick's Snowdrift
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Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

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Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz 40c; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3 00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

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Wholesale Bulb Growers, SASSENHEIM, HOLLAND.

SPECIALTIES:

Hyacinths, Tulips, Narcissus, Peonies, Spireas and Dahlias

Large stocks of the popular **Daffodils,** Von Sion and Golden Spur.
Best strain of the new pink **Spireas,** Queen Alexandra and Peach Blossom, and the new whites, Gladstone, Queen of Holland and Blondine.
Over 100 standard varieties of **Peonies** in cultivation.
Offer for the first time their new dwarf **Mignon Dahlias,** a gem for bedding: height, 14-16 inches.
Grow the best novelties in **Peony Dahlias.**

Please apply for a personal call or descriptive catalogue, until May 1st, to

WARNAAR & CO.
care J. W. HAMPTON, JR. & CO., 8-10 Bridge St., New York.

NEW CANNA

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A new shade of beautiful soft pink splendid form
$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

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SEED GROWERS AND DEALERS.
Garden, Field and Flower Seeds.

82 and 84 Dey St., NEW YORK.

Seed Farms: Orange, Conn. **OUR SPECIALTIES: Onion, Beet,** Tomato, Cabbage, Cucumber, Sweet Corn, **Seed Potatoes** and **Onion Sets.**
Catalogue free. Correspondence solicited.

Waynesboro, Pa.—Wm. Bester, of Hagerstown, Md., and M. P. Quinn, of Washington, D. C., visited Henry Eichholz's plant February 23 and were greatly pleased with the fine arrangements and the quality of the stock.

Gladioli. Not the largest stock, but as good as any.

Iris Germanica, Madeira and Cinnamon Vines.

The argest and best stock in the country.

Lilies, Hyacinthus Candicans, Spotted Callas, Oxalis, Millas, Besseras, etc.

In fine bulbs.

Iris Kaempferi and other Hardy Plants.

Price List on application.

E. S. MILLER,
Wading River, Long Island, N. Y.

Telegraph Code
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—$2.00—

In either stiff or flexible cover. Address order

AMERICAN FLORIST CO., CHICAGO.

Wanted Ipomoea Palmata or Mexican Morning Glory. Large size roots.
State quantity you have to offer and price.
VAUGHAN'S SEED STORE,
Chicago. New York.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

GREAT FALLS, MONT.—Wm. Husemeyer has resigned his position as superintendent of the city parks.

YANKTON, S. D.—Geo. H. Whiting, president of the Whiting Nursery Co., was married at Watertown, February 24, to Mrs. Eva E. Williams. The couple at once left for their home here.

TEXAS orchardists are said to be very indignant at the careless methods of some shippers of nursery stock who, they claim, have sent hundreds of diseased and insect-infected trees into the state. Where were the inspectors?

ROCHESTER, N. Y.—The Phillips Nursery Co. was incorporated February 25, at Albany with a capital of $5,000. The directors are H. Bartlett Phillips of this city, J. C. Johnson, Englewood, N. J., and Henry E. Goudy, New York.

DAYTON, O.—The Miami Valley Nurserymen's Association held its fourth annual banquet at the Phillips house February 18, about 50 members being present. The following officers were elected: T. I. Dinsmore, Troy, president; W. N. Scharff, New Carlisle, secretary and treasurer. J. W. McNary and L. M. Brumhall both gave interesting speeches.

Seed Sowing.

Notwithstanding the ease with which most of our hardy shrubs are propagated by cuttings either of green or ripened wood, there are times when it is advisable to increase the stock by seed sowing. And it is often the case that much better plants can be obtained in this way. There are, too, quite a number of trees and shrubs which utterly refuse to strike from cuttings of any kind; or, at least, they have not been so propagated up to the present time, and these varieties must of course be propagated by seeds or by the slower and more expensive process of grafting or budding. Some species of viburnum, cornus and other refractory subjects are readily propagated by seeds, and, even among species which strike easily from cuttings, raising from seed is frequently preferred. Most stocks for grafting, many of our evergreens and the large majority of our trees are seedlings.

As a rule I think seedlings possess a better root system than plants grown from cuttings. Sports and sterile varieties are of course increased by some of the asexual means. There is a great variation in the ease with which seedlings are grown and also a great variation in the time required for the seeds to germinate. Some, like weeds, germinate quickly and push forth a vigorous growth in a brief time, while others require special treatment or perhaps require a year or two to sprout. Some seeds germinate more readily if stratified or placed in soil and exposed to the frosts of winter while others must be sown as soon as ripe, and begin their growth within a few days. Some few are benefited by a hot water bath to soften the outer coats, and a few are the better for a surgical operation to pierce the tough enclosing skin or shell.

It should be remembered that quite a number of our seeds, like those of some of the viburnums and others, will not sprout the first year but require the exposure to two winters to prepare them for the duties of this life. Such seeds are better placed in mice-proof boxes and buried in the ground until their time comes. It is usual to sow the seeds of hardy shrubs and trees in frames outdoors, but it often happens that we are short of young stock for lining out or for some other purpose, and then many of the seeds of our common shrubs are sown in winter under glass. We usually sow the seed in flats about two and one-half inches deep and of a length and breadth which will admit of easy handling. A cool house is the place for them and so long as they have a temperature above the freezing point at night and from 50°-60° in the day time, they are all right. After germinating give them plenty of air and not too high a temperature. In a few months they will be several inches high with a nice root system. As soon as the season is far enough advanced they may be transplanted into the nursery and will soon start into active growth again. By this method plants can often be obtained in nine months that will readily pass for two-year-olds.

We like to sow most of our conifers and other delicate or slow-growing plants under glass as they can have better care and the conditions suitable for growth can be better supplied. In preparing our flats we use about one inch of fairly good compost in the bottom, but a very light soil on top for the immediate covering of the seeds. Should there be any danger of damping off, as is frequently the case with acacia seeds, a dip in a weak solution of liver of sulphur will prevent the injury.

It is possible that we may carry the propagation of plants too far by cuttings. While some kinds of plants have become almost seedless and depend for increase on some of the vegetable processes, like suckering or layering, or by throwing off buds or cuttings yet all these processes are theoretically devitalizing, and it is a fact that we get, in most cases, a much more vigorous and shapely offspring by seed reproduction. To my mind we get, even in the case of our common red dogwood (Cornus stolonifera), a much more shapely plant through sexual reproduction by means of seed. So firm is our faith in the seedlings that we grow every year a lot of dogwoods from seeds. And there are others.

JOHN F. COWELL.

V1 Spray Fluids.

As the season is now quite advanced, the matter of the right spray fluids should have immediate attention. Wm. Cooper & Nephews, 177 Illinois street, Chicago, have become actively interested in horticulture and some time back established a research laboratory, with its attendent staff of experienced men, to investigate the spray fluid problem. The culmination of their work is the production of the V1, V2 and V3 spray fluids which are offered to American fruit growers on their merits. It is claimed that these fluids represent the perfect combination of fungicide and insecticide and destroy scale and fungus in active or resting stages. Further advantages are instant mixing with water, freedom from sediment, no clogging of nozzles, entire absence of decomposition, and easy and pleasant application. Each gallon makes 100 gallons of spray mixture by the simple addition of water. This firm has just issued its 1909 booklet containing 32 pages of American, British and Canadian testimony and other interesting matter which is free for the asking. In it the proprietors modestly solicit a comparative trial of their fluids by fruit growers and others, trusting entirely to their superior merits to win their way into popular favor.

Pruning Outdoor Roses.

ED. AMERICAN FLORIST:—

Will you please advise me through your columns the best time for pruning outdoor roses and shrubs, and how?

A. S.

West Virginia.

Owing to the meager information regarding the shrubbery and outdoor roses stated in the inquiry by "A. S," it is hard to answer him intelligently. It would take up several pages to touch on the shrubbery question as a beginner. And we would suggest, if there is a well kept park or private place in his locality, to carefully observe the way the work is handled therein. But if there are any shrubs to prune he should begin now before they start into growth. Regarding the roses, prune them as soon as the eyes show the first sign of swelling, and when there is not likely to be any real hard freezing weather. From March 15 to April 15 is usually about the time to handle the outdoor plants, according to the season, which may be forward or backward, and has a great deal to do with the time to handle this work,

In pruning hybrid roses such as U. Brunner, General Jacqueminot, Paul Neyron, Magna Charta and others in this class, cut them back hard, leaving three or four eyes. For the teas they usually die back close to the ground and where they do not it is only necessary to remove the dead tips down to a good eye and cut away any small twiggy wood leaving only the strong canes. Ramblers can be trained into shape, and can be better pruned in the fall or summer. Of course, if the plants have grown out of shape through improper pruning, especially the hybrid roses, and are large and unsightly, it is a hard matter to tell just how to prune them unless one was on the spot, and in this case, "A. S." must use his best judgment but as stated above, roses pruned properly are usually cut back each season quite hard, to insure a strong, healthy growth, and to keep them shapely.

E.

American Ass'n of Horticultural Inspectors

MEETING AT BALTIMORE, DEC. 29-30, 1908.

The following condensed account of the meeting of horticultural inspectors is of special interest to nurserymen. As is probably well known, this association is made up of all the nursery inspectors in the United States. The seventh annual meeting was held at the Rennert hotel, the first session opening at 8:00 p. m., December 29, 1908, with President Summers in the chair, and the following questions were considered:

How can a national importation inspection law be secured?

Committee of three appointed by the chair to take charge of promoting such legislation during the ensuing year.

Is it desirable for this association to draft an inspection law for adoption by the several states?

Laid on the table.

Is it desirable to change the present method for certification of stock sold by a nurseryman, which was not grown in his state?

In connection with this question the following resolution was offered by Dr. J. B. Smith of New Jersey, and adopted: "That a committee of five members be appointed to formulate a system by means of which the individual members of the association may notify the other members of the association of such views concerning special nurserymen, as it may seem desirable for the inspectors of other states to know." Further remarks showing benefit of the tag system as applied to this subject were made by various members.

What rule should govern the conditions of a certificate to a nurseryman in whose nursery stock San Jose scale has been found?

No definite action.

What is the present opinion regarding the dipping of nursery stock in a contact insecticide, as compared with fumigation with hydrocyanic acid gas?

The following resolution was adopted: "That it is the sense of this body that the present method of fumigation with hydrocyanic acid gas is the most approved method of treating nursery stock where there is danger of infestation from San Jose scale."

What conditions should govern the certification of strawberry plants from nurseries in which the strawberry root louse is known to be present?

The following resolution was adopted: "That it is the sense of this association that where the strawberry root louse occurs in a nursery patch, if the attack be severe, the patch should be destroyed, but if only a slight infestation, the nurseryman should be required to burn off the patch, and dip plants in tobacco water before shipping."

Peach yellows.

Resolved: "That this association recommend that nurserymen, as far as possible, cut scions from bearing healthy trees and urge proper fumigation of all propagated nursery stock used in the nursery with hydrocyanic acid gas."

Crown gall.

Resolved: "In view of the proven facts that this is a bacterial disease, communicated from one raspberry plant (and other plants) to another, that the practice on the part of nurserymen of storing raspberry plants visibly affected with crown gall with unaffected plants is extremely dangerous, and should be discontinued in the interest of fruit growing."

Election of Officers: The undersigned was elected president for the ensuing year, and Prof. T. B. Symons of Maryland, secretary-treasurer.

F. L. WASHBURN,
Inspector for Minnesota.

Farmers and Forest Tress.

We believe it would pay farmers to take advantage of the Iowa forestry law and use five acres of the farm for forest trees, says the Macon City Herald. The farmer is not confined to the use of just five acres but the minimum is five acres on which taxation will be released after the first two years. To comply with the law it will be necessary to plant on each acre 200 or more trees of any of the following kinds: Ash, black cherry, black walnut, butternut, catalpa, coffee tree, the elms, hackberry, the hickories, honey locust, mulberry, the oaks, sugar maple, European larch and other coniferous trees, and all other trees that have been introduced into the state for experimental purposes shall be considered forest trees. Under this law, willows, box elder, cottonwood, soft maple and poplars will be included under the law when they are used for protecting borders.

The law permits the removal of one-fifth of this timber per year after it has grown large enough for timber use. Five acres of fruit tree land may be exempt from taxation for a period of eight years to encourage the growing of different kinds of fruit trees in the state. Iowa is in need of groves and forest trees. This question we hear discussed on every side. It is estimated that the forest area of the country will not last more than 50 years. The time is not far off when the quetsion of tree planting will be on everyone's mind.

The Sea Buckthorn.

The sea buckthorn, or sallow thorn, is found wild in various parts along the eastern seashores of England and Scotland, says the Journal of Horticulture. It appears to covet the sandy seashore, and is very hardy, often growing close up and coming well under the influence of the salt spray. We recollect seeing a remarkable bank of sea buckthorn on the Gosford estate, East Lothian, growing behind a wall, and the spray had shorn or nipped off the young growths so persistently that a perfectly straight, oblique top was formed. The branches are simply roped with the bright reddish-orange berries, which remain on for many months. The silvery-white leaves are narrow and willow-like. The bushes flower in May on the old wood, the male ones minute, in auxiliary clusters; the female flowers solitary, on separate plants. To obtain well-berried bushes it is necessary to have both sexes side by side, or else the female flowers must be dusted with the pollen-bearing male branches. The plants can be propagated by seeds, suckers, or cuttings.

Procuring Peonies.

ED. AMERICAN FLORIST:—

Which is the best firm to procure peonies from? E. R.

There is no best firm and we can only refer you to the many firms that, during the planting season, advertise these plants in our columns.

Some of Our Specialties

	Each	Per 100
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75	
3 to 3½ ft. high	2.50	
Bush shape, very heavy, 2 to 2½ ft.	1.75	
2½ to 3 ft. high	2.00	
Rhododendrons, Parson's hardy varieties, 8 to 12 buds, 18 to 24 in. high	$ 75.00	
12 to 14 buds, 24 to 30 in. high	100.00	
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00	
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better		$100.00 per 1000 $11.00
Moss Roses, field-grown		12.00
Hardy Climbing Roses, field-grown		8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft. high		30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops		10.00

THE STORRS & HARRISON CO., Painesville, O.

American Everblooming Hydrangea.

Strong field-grown plants, 15 to 20 inches, $2.50 per doz. $15.20 per 100.
Berberis Thunbergii, 1 year and transplanted. Amoor River Privet. Japanese Privet. 1½ to 2½-ft. California Privet 1 to 2½-ft.
Lists Free
THE E. Y. TEAS CO., Centerville, Ind

LARGE TREES.
OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

BOBBINK & ATKINS,
Rutherford, N. J.
Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

SPECIAL OFFER
Tree and Shrub seeds, especially Tulips, Poplars, Calycanthus, Red Bud, Sweet Gum, Witch Hazel, etc. at special prices to close.
J. H. H. BOYD, McMinnville, Tenn.

UP-TO-DATE
Azaleas and Rhododendrons
WITH
JEAN BRACKE,
LOCHRISTY, near Ghent, BELGIUM.
Catalogues free on application.

FROM GROWER TO PLANTER
New and Noteworthy
TREES
Shrubs, Roses
Evergreens
Fruits
Hardy Plants
Best Stock at Reasonable Prices.
No Agents. Commissions saved.
Collections unequalled.
Beautiful Illustrated Descriptive 100 page Catalogue and Guide mailed free upon request.
Ellwanger & Barry
MOUNT HOPE NURSERIES
ESTABLISHED 1840 Box Q, Rochester, N. Y.

6000 Swiss Stone Pine Seedlings, 3 and 4 yrs.
2000 Swiss Stone Pine, 6 to 8-in. transplanted and larger sizes. 1000 Mugho Pine, 6-in. high 6-in. broad, twice transplanted, round and compact and larger sizes. Twice transplanted Engleman Spruce 9 to 12 in twice transplanted heavy and larger sizes. All grown here.
Send for Wholesale Catalogue.
JACKSON'S NURSERIES, Portland, Me.

ARBOR VITÆ
(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)
Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,
Price List Free on Demand.

For Best Results Advertisers should mail new advertisements and changes so as to reach us on Mondays.

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		6.00	50.00
ENCHANTRESS		3.00	25.00
MRS. THOMAS W. LAWSON		2.00	15.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		6.00	50.00
RED. Per 500.			
O. P. BASSETT $35.00	1.50	8.00	60.00
BEACON		4.00	35.00
ANDREW CARNEGIE		6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		6.00	50.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants, 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

ROOTED CARNATION CUTTINGS

For Immediate Delivery.

	100	1000
Lucille, (white, overlaid with pink)	$12 00	$100 00
Mrs. J. C. Vaughan, white	12 00	100 00
Mrs. Chas. Knopf,	12 00	100 00
O. P. Bassett,	8 00	60 00
White Perfection,	3 00	25 00
Beacon	3 00	25 00
Victory	3 00	20 00
Winsor,	3 00	25 00
Rose Pink Enchantress,	2 50	20 00
Enchantress	1 75	15 00
Lawson,	1 50	12 00
Lady Bountiful,	1 75	15 00
White Enchantress, that is pure white	3 00	25 00

A. F. LONGREN, Des Plaines, Ill.

Headquarters for all desirable varieties of **Carnations, Chrysanthemums** and **Roses.** Write for full list.

Utica, N. Y.

The annual banquet and trade show of the Florists' Club was held at Arcanum hall, February 18. The local members of the club and those from surrounding places including Rome, Whitesboro, Ilion, etc., with their wives and friends, were present and altogether over 100 sat down to the well filled tables. In the center was a special table filled with new varieties of carnations sent mostly by the growers. It was a fine display. After the banquet President Frank J. Baker, called the assemblage to order and acted as toastmaster. He thanked all for their presence and said the club had given evidence of its fitness for existence. He made timely remarks, suggesting that the members might extend their labors and interests by studying the diseases of street trees and leading residents who take a pride in the appearance of their residences to establish handsome lawns. His remarks were heard with interest and were well received.

Wm. Mathews was next called on and he spoke in an interesting and entertaining manner. He was followed by Seward Hakes of Ilion, who took for his subject, "Set Pieces," and talked in a businesslike way, which was highly appreciated by the florists. M. N. Gurry, who represents the Cockroft's of Northport, L. I., made appropriate remarks on business and politics and was heard with interest.

The late Louis Marquisee of Syracuse was a native of this city. Over a year ago he accepted an invitation to speak at the florists' national convention at Indianapolis, and he wrote for that occasion a poem on the carnation, which was a beautiful production. He died November 24 last, but at the convention at Indianapolis several weeks ago the poem was read and was well received. It is one of the best ever written by Mr. Marquisee and has been printed in pamphlet form and on the title page bears his portrait. Last evening the poem was read by Mrs. Spencer with good emphasis and inflection and it was greatly enjoyed by the large company present and enthusiastically applauded. [We reproduce Mr. Marquisee's poem on page 272 of this issue.—ED.] The banquet was in every way pleasant and successful. The members of the committee of arrangements were J. C. Spencer, Jesse Williams and A. R. Wilcox.

LEXINGTON, KY.—Honaker Bros. have begun the erection of three new houses, one 30x100 feet for violets, one 38x200 feet for carnations, one 28x150 feet for carnations.

Carnation Cuttings and Plants

Ready March 5th to 20th.
Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	25.00		
Afterglow	50.00		

Mrs. J. C. Vaughan, from 2½-in. pots, $12.00 per 100.

CHICAGO CARNATION CO.

A. T. PYFER, Manager. **Joliet, Ill.**

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

FLICROSS, 25 Monroe St., Grand Rapids, Mich.

CARNATION CUTTINGS

We offer choice varieties for January and later shipments.

	Per 100	Per 1000
ENCHANTRESS	$2 50	$20 00
WHITE "	3 50	30 00
ROSE PINK "	2 50	20 00
WHITE PERFECTION	2 50	20 00
WINSOR	3 50	30 00
MELODY	2 50	20 00
BEACON	3 50	30 00
VICTORY	3 50	30 00
ARISTOCRAT	3 50	30 00
SPLENDOR	6 00	50 00
VESPER	3 50	30 00
WHITE LAWSON	2 50	20 00

East Sudbury Greenhouses,

CARNATION SPECIALISTS

P. O. Address, SOUTH SUDBURY, MASS.

Telephone So. Sudbury 20

Always mention The American Florist when you order stock.

It takes good, healthy plants, free from rust and other diseases, to produce a crop like this. Our plants have retained their health and vigor since the date of this photograph, which was taken three years ago. It takes healthy plants to produce healthy cuttings, so, if you want cuttings of this kind, send us your order.

	Per 100	Per 1000
White Perfection	$3 00	$25 00
White Enchantress	3 00	25 00
Winsor	3 00	25 00
Afterglow	6 00	50 00
Beacon	$3 00	$25 00
Victory	2 50	20 00
R. P. Enchantress	3 00	20 00
Lawson-Enchantress	6 00	50 00
Enchantress	$2 00	$18 00
Mrs. Patten	2 00	15 00
Lawson	1 50	12 50
Sarah Hill	6 00	50 00

ROSE CUTTINGS

	Per 100	Per 1000
Bride and Maid	$2 00	$17 50
Chatenay	$2 00	$17 50
Perle	$2 50	$20 00
Alice Roosevelt	$7 50	$60 00

All cuttings guaranteed to be first-class.

WEILAND & OLINGER, Newcastle, Ind.

Rooted Cuttings Now Ready. Nothing but the Best at Lowest Price—first come, first served. Credit only to reliable people.

	Per 100	Per 1000
W. H. Taft (New Red)	$12 00	$90 00
Victory	2 50	20 00
Enchantress	1 75	15 00
Pink Lawson	1 50	12 50
White "	2 00	18 00
Variegated "	2 75	25 00

SCHEIDEN & SCHOOS, 60 Wabash Ave., Chicago

Louisville.

TRADE SATISFACTORY.

The conditions of business last week on the average were satisfactory. Roses sell well and are now in better supply, with the quality fair. Carnations sell very satisfactorily and are in fair supply. The quality is very good. Violets have become very cheap and were a glut last week. The quality is very good. Lily of the valley is plentiful with a fair demand. The quality is satisfactory. There is too much bulbous stock on the market at present, and some growers no doubt will find a great loss. Green goods are plentiful with the exception of asparagus sprays, which are unusually scarce. Other stock and flowering plants are in good supply and find a satisfactory demand.

F. L. S.

Carnations in Variety

ROOTED CUTTINGS

	Per 100	1000
Enchantress,	$2 50	$20 00
White Enchantress,	3 00	25 00
White Lawson,	1 50	12 50
Pink Lawson,	1 50	10 00
Var. Lawson,	2 00	18 00
Winsor,	2 50	20 00
Lady Bountiful,	1 50	12 50
Boston Market,	1 50	12 50
Beacon,	3 50	30 00
Kingston Pet,	2 50	20 00
Pres. Seelye	4 00	35 00

Newburgh Floral Co.,

58 Second St., NEWBURGH, NEW YORK.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud 1 00
Strong plants bloom in April..... Per 1000, $5 00
Smaller size plants ..... Per 1000 4.00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. SOUTHPORT, CONN.
Grower of the Finest Pansies.

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., Cincinnati, O.

PETER FISHER

Ellis, Mass.

Send for Price List of Carnations.

CARNATIONS

Apple Blossom Wanoka

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100; $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,
BARNEVELD, NEW YORK.

FIELD-GROWN
Rose Plants
Suitable for Easter forcing.
NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet. 50c each: $30.00 per 100.
Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.
We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.
Send for Catalogue.

ROSES
We have a fine stock of large dormant field-grown plants on own roots, including Crimson Rambler, Dorothy Perkins, Clio, Alfred Colomb, Fracois Levet, Jack, Prince Camille de Rohan, Magna Charta, Ulrich Brunner, Glant of Battles, and many others, at $16.00 per 100; $150.00 per 1000 Send for list. **Roses, Dahlias** and **Cannas** a specialty.
THE DINGEE & CONARD CO., West Grove, Pa.

Rooted Cuttings.

	Per 100	1000		Per 100	1000
Maids	$1.50	$12.00	Brides	$1 50	$12.00
Moulton	1 50	12.00	Richmond	2.00	15.00
American Beauty	3 00		25.00		
American Beauty bench plants	7 00		65.00		

All good stock. Cash with order.
GEO. REINBERG, 51 Wabash Avenue, CHICAGO, ILL.

SPECIALTIES.
ROSES from 3-inch pots. **CHRYSANTHEMUMS**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**
IN BEST VARIETIES.
Prices low. Send for list.
WOOD BROTHERS, Fishkill, N. Y.

Bargains in 4-inch Pot
ROSES
for immediate shipment.
400 best sorts, 2½-inch now or Spring.
THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO

Our Pastimes.
Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.
Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Louisville.

The Florists' bowling club met Monday night and had some very hotly contested games, Capt. Kirch's team defeating Capt. Geo. E. Schulz's three straights. Andy Brand was high with 189 and Jacob Schulz was low with 68. Following are the scores:

	1st.	2nd.	3rd.
Louis Kirch	156	100	101
James Doerr	162	141	134
Fred L. Schulz	164	113	136
Andy Brand	135	149	189
Geo. Stark	99	130	111
———	100	100	100
Total	816	733	771
Geo. E. Schulz	128	144	155
Wm. G. Walker	174	107	134
Jos. Wettle	148	148	146
Karl Rabe	87	86	110
Jacob Schulz	68	128	117
Robt. Miller	119	102	103
Total	724	715	765

F. L. S.

VAUGHAN'S LIST OF
Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots	$2 00	$12 00
2 yrs. old, 2 to 3 ft., well branched, budded	2 00	12 00
3 yrs. old, 3 to 4 ft., well branched, own roots	3 00	15 00
3 yrs. old, 3 to 5 ft., well branched, budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.
Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, grafted	2 50	16 00	135 00
3rd size, selected, grafted	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00	
3-inch	1 25	8 00	
4-inch	2 00	12 00	
5-inch	4 00	30 00	

Anny Mueller.
Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
5-inch	35	3 50	25 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00
TREE ROSE Baby Rambler, 1½ to 2½ ft ..... each, 75c; per doz., 8 00
TREE ROSE Baby Rambler, 2½ to 3 ft ..... each $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.
French Stock ..... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Rhododendrons, in assorted colors, our selection:			
Strong, bushy, well shaped plants, 8-12 buds	$1 00	9 00	
Strong, bushy, well shaped plants, 12-18 buds	1 25	12 00	
Lilac, pot-grown, for forcing, Mme. Cassimir Perier, Bertha Dammann, Mme Lemoine, strong, well branched, with plenty of buds	1 00	10 00	
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.
Vaughan's Seed Store,
84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

GRAFTED ROSES
On selected Manetti, clean, healthy wood grown, especially for grafting.
BRIDE, MAID, CHATENAY, KAISERIN, KILLARNEY, RICHMOND, WELLESLEY.
$12.00 per 100; $100.00 per 1000.
My Maryland ..... $20.00 per 100 **Rhea Reid** ..... $15.00 per 100
(Orders booked now and plants held till you are ready for them after the Easter rush or later).

Lily of the Valley.
A few cases still to offer of **Reimschneider's Holsatia,** 3 year Hamburg pips, heavy roots, extra strong, suitable for late forcing.
Per **case** of 2000 pips, $24.00.
JACKSON & PERKINS CO., Newark, N.Y.

ROSE PLANTS
On own roots. Send for list.
C. M. NIUFFER, Springfield, Ohio

Carnations, Geraniums, Asparagus.
Send for low price list. I have no agents. Buyers get the benefit of their commissions.
ALBERT M. HERR, Lancaster, Pa.

Chrysanthemums
AND
Aster Seed
Elmer D. Smith & Co.
ADRIAN, MICH.

Dreer's Tuberous Rooted Begonias

The Begonias and Gloxinias which we offer are grown for us by an expert who has made a specialty of this class of stock for many years, and there is no better or finer strain on the market.

BEGONIAS, Singles in separate colors: Scarlet, crimson, white, rose, yellow and orange, 40c per doz., $3.00 per 100, $25.00 per 1,000.

BEGONIAS, Singles in Choicest Mixture: 35c per doz., $2.50 per 100, $22.00 per 1,000.

BEGONIAS, Doubles in separate colors: Scarlet, rose, white and yellow, 65c per doz., $5.00 per 100, $40.00 per 1,000.

BEGONIAS, Double in Choicest Mixture: 50c per doz., $4.00 per 100, $35.00 per 1,000.

SUN-PROOF BEGONIA, Duke Zeppelin: $1.25 per doz., $8.00 per 100.

SUN-PROOF BEGONIA, Lafayette: $2.00 per doz., $15.00 per 100.

FRILLED BEGONIAS, in separate colors: Scarlet, white, pink and yellow, $1.00 per doz., $7.00 per 100, $60.00 per 1,000.

For a full line of seasonable stock, see our new wholesale list.

HENRY A. DREER, Philadelphia, Pa.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties.

DENROBIUM WARDIANUM,
D. CRASSINODE, D. PRIMULINUM,
D. THYRSIFLORUM, D. CHRYSOTOXUM,

others to follow. We have also for immediate delivery a fine lot of **Calanthe Veitchi** bulbs ready to pot now.

Write for prices.

Lager & Hurrell, Summit, N. J.

FRESH STOCK, GUARANTEED TRUE TYPE

ORCHIDS

No Greenhouses Direct To You.

Cattleyas all collected in flowering season.

C. Mendelii arrives in May.
C. Mossiæ arrives in June.
C. Gaskelliana arrives in August.
C. Gigas Hardyana arrives in October.

C. Aurea arrives in October.

Miltonia Vexillaria now ready.
M. Roezlii arrives in October.

In any quantity. Place order early.

G. L. FREEMAN, 388 Appleton St., HOLYOKE, MASS.

Asparagus Plumosus Nanus Seed

For sale, our own growing, $3.25 per 1000.

Special wholesale prices to florists on all **Seeds, Bulbs** and **Nursery Stock** of all descriptions. Catalogs on application.

L. L. MAY & CO., St. Paul, Minn.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World.

SANDER, St. Albans, England.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM.** Agent.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, SECAUCUS, N. J.

GET YOUR ORDER IN FOR EASTER PLANTS

Lilies, Spireas, Azaleas, Hydrangeas, &c., &c.

Will ship Lillies in paper pots so they will reach you in fine shape. All will be in for Easter. Ask us to send you our Soft Wooded plant list. **Dreer's Fancy Petunias. Fine Fuchsias, Salvia Zurich, Geraniums, etc., etc.**

GEO. A. KUHL, PEKIN, ILL.
Wholesale Grower.

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE
GHENT, BELGIUM.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each, $7.50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,
225 W. 16th St., DAVENPORT, IOWA

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.

Cinerarias, 4-inch	$5.00 per 100
Pansies, fine plants	2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

Worcester, Mass.

Business continues very good, especially the two weeks before Lent, there being quite a lot of pre-Lenten teas and other social affairs that called for flowers in quantity. Also a large amount of funeral work.

"How to Beautify the Homes of the People by Adorning the Grounds About the House," was the subject of a lecture given February 25 before the Worcester County Horticultural Society in Horticultural Hall. H. D. Hemenway, general secretary of the Home Culture society of Northampton, was the speaker, and his lecture was illustrated with stereopticon views. A musical programme was given, it including a solo by Mrs. H. L. Bryam, accompanied by Miss Louise D. Spinny, of Brockton; a trio by Mrs. L. C. Midgley, Mrs. H. F. Hildreth and Mrs. P. G. Forbes; a solo by Miss Helen Mixter, of West Boylston, accompanied by Mrs. L. C. Midgley, and a piano solo by Miss Ruth White. President Geo. C. Rice presided.

NOTES.

Benjamin W. Childs, a member of the board of park commissioners, has resigned. Mr. Childs has not been in the best of health for some time and has only recently recovered from an illness that his friends feared for a time might prove fatal. His decision to resign from the board is final and no doubt his advice will be missed.

Mark Aitken, of Springfield, has leased the store formerly occupied by W. Lewis, corner of Main and Pleasant streets, and had some very pretty window displays.

H. F. Littlefield reports business good. He has got a white sport from Winsor carnation in its second year that looks as though it would be a winner.

A. H. Lange was judge at the growers' show of the Massachusetts Horticultural Society, February 27.

R.

The Luther Burbank's Products, Inc.

San Francisco, February 26.—In order that his discoveries may be more generally distributed and incidentally that his work may not be hampered by the business worries, the brains and genius of Luther Burbank, the plant wizard, have been capitalized for several million dollars. The men who have secured the sole right to distribute to the world the plant discoveries of the Santa Rosa naturalist are Hartland Law and his brother, Herbert E. Law, two well known millionaires of this city, and Oscar E. Dinner, a wealthy eastern capitalist.

There is no limit to the rights which the men have secured except one or two small contracts which Burbank is fulfilling. Working alone Burbank has not had time to give the result of all of his experiments to the public, but now a systematic effort will be made to distribute both his past and future products to the world. One of the first things undertaken by the new company will be the fulier development of the spineless cactus, which promises to transform the desert wastes into grazing lands for cattle. In this connection it is announced that Burbank has developed a cactus capable of producing saccharine matter which will yield both sugar and alcohol.

Burbank, when asked regarding the formation of the new company, made the following statement: "It is a fact that Herbert Law and his brother and Oscar E. Dinner have secured the sole rights to the handling of my products, with the exception of a few varieties I have already sold. I am glad to be rid of the business end. It will give me so much more time for the development of more fruits and flowers." The company will be called "The Luther Burbank's Products, Incorporated."—New York Globe.

European Horticulture.

FROM THE GERMAN TRADE PAPERS.

STRENUOUS ADVERTISING.—In German magazines appears an advertisement which reads: "The Biggest Bargain ever! Grandest Wonder of Nature! The Resurrection plant! Referred to in the Bible; the prophet Isaiah mentions it! A plant that starts to grow in ten minutes and is fully grown in a day. Unsurpassed in fascinating beauty as an ornament for the parlor, and not equaled in bewitching stateliness as a centerpiece for the dining table! This plant is immortal, lives from century to century; needs neither earth nor water, cares nothing for the fiercest heat or bitterest cold; can be boiled or buried in ice; remains always fresh and green! The plant emits the most deliciously sweet fragrance; it purifies the air, keeps away moths, fleas, spiders, bugs and insects of all kinds; it destroys disease germs and allows no sickness to enter! Truly the most marvelous of nature's blessings, the most lovely of God's creations. Price 1 mark." It would be unfair to expect more of the poor little desert waif, Selaginella lepidophylla, and all for 25 cents

BEGONIA "PATRIE."—V. Lemoine et fils, Nancy, France, are the originators of the new begonia, Patrie, which in habit of growth, profusion of bloom, length of flowering season, color and size of flowers, and ease of propagation and culture is said to be the most distinct as also in every respect the most meritorious of the many new begonias vying for supremacy in the class headed by Gloire de Lorraine. This new one flowers from early in November until April.

IRIS SIBIRICA.—Elegance in growth and shape of its flowers distinguishes I. Sibirica from all other kinds of iris. There are not many varieties of this distinct and most desirable type, the color of the flowers being either pure, snowy white, or, as in some varieties, a delicate light blue. It is a splendid iris for outdoor planting as well as for pot culture and forcing.

VERBENAS

62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection	$ .75 per 100;	$ 6 00 per 1000
Plants, our selection	2.50 per 100.	20.00 per 1000
Rooted Cuttings, purchaser's selection	.90 per 100;	8.00 per 1000
Plants, purchaser's selection	3.00 per 100;	25.00 per 1000

Carnations

All the Best New and Standard Varieties. Send for circular.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS.

We have an immense stock of fine plants from 2-in. pots for immediate shipment, at prices running from $2.00 per 100 up to 50c. each. We will send 1000, 50 each of 20 good varieties, our selection, for $18.50. Our Special Geranium Catalogue describes upwards of 250 varieties.

Lobelia, Kathleen Mallard, Double Blue	$2.00 per 100	
Salvia, Bonfire	$2.00 per 100;	$18.50 per 1000
" Zurich	3.00 per 100;	22.50 per 1000
Alyssum, Dwarf, double, fine for pots	$2.00 per 100	
Cineraria, Maritima Candidissima	2.00 per 100	
Centaurea Gymnocarpa	2.00 per 100	
Ageratum, Stella Gurney, Inimitable	2.00 per 100	
Hardy Pompon Chrysanthemums	2.00 per 100	
1000, 50 each of 20 good kinds, our selection	$18.50	

We also have a general line of **Bedding Plants.** Send for catalogue. Only to the trade.

R. Vincent, Jr. & Sons Co., White Marsh, Md.

PANSY PLANTS.

100,000 large flowering from field beds, 50c per 100; $2.50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Variegated,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula,** Obc. Grandif. Lilac, 2¼-in., strong stock, $1.75 per 100; 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.

Formerly Garfield Park Flower Co.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in, $5.00 per 100. Seedlings, $1.00 per 100.

Geraniums, Nutt, Doyle, Perkins, Ricard, Grant La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in. pots, $2.50; 3-in. $5.00 per 100. Mme. Salleroi, 2-in. $3.00 per 100.

Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.

Boston Ferns, 5-in., 30c each.

Vinca Var., 2-inch, $2.00 per 100.

Dracena Indivisa, 3-in., $5.00 per 100.; 4-inch $10.00 per 100.

Rex Begonia, $5.00 per 100.

Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order.

GEO. M. EMMANS, NEWTON, N. J.

Paris Daisy, Giant white, yellow, 2-in. 2c.

Geraniums, single and dbl. Grant, Buchner, etc., 2-in. 2c. **Ageratum,** 2-in. 2c.

Asparagus Sprengeri, Vinca Alba, Cuphea, Swainsona, Dbl. Alyssum, Abutilons, Alternanthera, Coleus, 2-in. 2c.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, yellow; **Swainsona,** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c. $8.00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c. $5.00 per 1000; **Artillery Plant, Hardy Pinks,** 75c; **Flowering Begonias,** $1.25; **Fuchsias** 8 kinds, $1.00; **Salvia,** Splendens, Bonfire, 90c per 100; **Parlor Ivy,** 75c; **Stevia,** 75c; **Verbenas** 60c Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz.; $10.00 per 100.
Ferns. Boston and Scottii, 4-in. pots, $1.50 per doz., $10.00 per 100; Boston 3-in. pots, $4.00 per 100; Whitmani, 3-in. pots $5.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100
Cannas, King Humbert and Mt. Blanc, 3 in. pots, $5.00 per 100.
Dracena Indivisa, 5-in. pots $2.00 per doz.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots $5.00 per 100
Clematis, large flowering varieties, dormant plants, $15.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100.
Ficus Elastica, 6-in. pots, 25c each.
ROOTED CUTTINGS from soil. $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem), Coleus (Verschaffeltii and Golden Bedder), Alternantheras, 4 varieties, 50c per 100, from sand.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

Rooted Cuttings
of Bedding Plants

Ageratum—Little Blue Star, Alternantheras, 4 varieties, 50c per 100; $4.50 per 1000.
Alyssum—Giant and dwarf: **Coleus**—10 varieties, strong rooted 60c per 100.
Salvias—5 of the best varieties: Vinca Variegated, extra strong stock; **Petunias,** Marvel; **Heliotrope,** 5 kinds, $1.00 per 100.

Dracena Indivisa

4-inch $12.00 per 100. 5-inch $20.00 per 100.
Also Fine Specimen Ferns for Easter decoration.

MOSBAEK GREENHOUSE COMPANY,
ONARGA, ILLINOIS.

VERBENAS
70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.
Daisies, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100; $8.00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5.00 per 1000. All rooted cuttings.
GERANIUMS, from 2¼-in. pots, at $2.50 per 100; $22.00 per 1000.

Express prepaid. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

ROBERT CRAIG CO.
HIGH CLASS PALMS
and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.

PANSIES

Fall Planted, Good Stock and good plants; Large Flowering
$1.00 per 100; $8.00 per 1000

A. R. KNOWLES, Bloomington, Ill.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000; 2-in., $16.00 per 1000
No order taken for less than 1000.

Drake Point Greenhouses, Yalaha, Florida

PREPARE FOR EASTER

From Whom Will We Purchase Our Easter Supply?

An Immense Stock of Choice Easter Plants Now Ready for Immediate Shipment. Blooming Easter Week or Before if Desired.

"From whom shall we purchase our Easter supply this season?" That seems to be the cry all over the country. "We have tried so many already. I know what I am going to do," some sensible man says. "I shall go back to Godfrey Aschmann. He is the best and most reliable man in the business. What he advertises he has and there is no bluff about it. I tell you his usual stock of **Azaleas** can't be beat, and the **Lilies** he has this spring are the finest I have ever seen. No wonder. He imports them direct from Japan. He has a friend in Japan who looks after his interests and sends him the cream of Japan's plants. He has enough to supply all, and I tell you no lie when I say that his other plants, such as **Hydrangeas, Cinerarias, Spireas, Ficus, Araucarias, Palms, Hyacinths, Tulips, Daffodils, Etc.,** are of such excellent quality that they will make a man's mouth water, and they are so remarkably cheap that we often wonder how he can do it."

AZALEA INDICA.

We are headquarters for these plants for the past twenty-five years. We make a specialty of importing large quantities of this so well known favorite Easter novelty Grown for us in Ghent, Belgium, by an Azalea specialist. Have now three houses full of the choicest. Only well known American varieties are imported. They are planted in the fall, as soon as they arrive from Belgium, into 6, 7 and 8 in. pots, planted in greenhouses and kept cool during winter. They are now in excellent condition, covered with buds, just right for Easter.

☞ Please bear in mind facts (mostly unknown to some Azalea growers) that fully 30 to 40 per cent of the newly imported Azaleas in dormant state will lose their buds and foliage during the long transportation of the sea voyage and during winter up to Feb. 1 and have to be kept over for another year.

☞ We only ship good stock and full of buds and flowers, and therefore you can't expect Azaleas at this time to be as big and as cheap as if you would buy them in dormant state in the fall.

☞ What is the name of the best double pink Azalea? Mme. Van der Cruyssen is the name. Originated by the well known Azalea specialist, Mr. Van der Cruyssen of Belgium. Millions are raised every year and shipped into every part of the globe from Belgium. We have a big stock on hand of this well known variety. Every plant is as round as an apple, covered with buds, just right for Easter. Have all sizes for 75c, $1.00, $1.25, $1.50, $1.75 to $2.00 each.

Deutsche Perle (double white) 75c, $1.00, $1.25 to $1.50; Bernard Andreas Alba (white) we have mostly big plants of this variety, $1.50, $2.00, $3.00 to $3.50, a few at 75c, $1.00 to $1.25; Niobe (also white), 75c, $1.00, $1.25, $1.50 to $2.00 each

Vervæneana, De Schryveriana (double variegated), 75c, $1.00, $1.25 to $1.50; Dr. Moore and Memorie de Louis Van Houtte (double pink), $1.00, $1.25 to $1.50; Apollo (red), 50c 60c, 75c to $1.00; other good varieties, such as John Llewellyn, Emperor of Brazil, Talisman, Helena Thielmann, Illustre, etc., 75c $1.00 to $1.25.

When we are out of one color we send the next similar color; also if we are out of the size ordered, we send the next size, either above or below the price mentioned.

Easter Lilies. Lilium Multiflorum, the genuine Japanese Easter lily, directly imported by us. We have a friend in Japan who looks after our interests there. He picks out for us only the good, healthy ones, and marks them while they are growing, the 10-in. bulbs, and therefore he ships to us the cream of the plants of Japan. We have Lilies this year to burn; can supply, if nothing happens, every customer and others who want Lilies. If you see them growing in our greenhouses, you must all admit they are "crackerjack9"; we sell them cheap, too. Where other florists get 15c per bud, we only charge you 10c per bud for plants in 6-in. pots, having 5 8, 10 and more buds to the plant. Plants under 5 buds, 12c per bud, 6-in. pots.

Araucaria Robusta Compacta, Glauca and **Excelsa.** Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds same as when we first started. Why the Arsucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variesy, very graceful snd beautiful. Specimen plants 6-7 8 in. pots, 4-5 year old, 4-5-6 tiers 20-25-30-32 in high, same in width, $1.50 $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa, 3-4-5 year old 4-5-6-7 tiers 6-in. pots, 20-25-30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

Hybrid Rose Bushes, 6-in. pots, 35-50c; **Rambler Dorothy Perkins,** etc., 5½-in., 50c; **Hermosa,** 5-in., 35c.

□ **Begonia new improved Erfordi,** 5-in., $2.00 per doz; **Begonia Flambeau** 5-in $2.00 per doz

Spirea Gladstone, 6-in. pots, 40c 50c, 75c, $1.00; Japonica Floribunda Grandiflora, 6-in., 25c to 35c.

Primula Obconica, 5-in. pots, $2.00 to $2.50 per doz.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot, $2.50 per doz. pots.

Hyacinths, 4 best colors, King of the Blues, Grand Maitre (light blue), La Grandesse (best white), Gertrude (best pink), 4-in. pots, $12.00 per 100. Now outside in cold frames. Two weeks will force them into bloom.

Asparagus Plumosus Nanus, 3-in., $5.00 per 100.

Hydrangea Otaksa, in bud, 6-7 in. pots, 35c, 50c, 75c to $1.00 each.

Cineraria Hybrida, best strain, 4-in. pots, $10.00 per 100; 5½ to 6 in. pots, just right for Easter, 25c, 35c, 50c, 75c.

Areca Lutescens, 4-in. pots, three plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in. pots, 25c; 30c, 40c to 50c.

Boston Ferns, 6-in. pots 50c; 7-in. pots, 75c; $1.00 to $1.25; 8-in. pots, $1.50.

Scottii Ferns, 5½-in. pots, 40c; 6-in. pots, 50c; 7-in. pots, 75c to $1.00; 8-in. pots, $1.50.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c, $1.00 to $1.25; 9-in. pans, as big as a washtub $1.25 to $1.50.

Neph. Amerpohli, 5¼ 5½ to 6 in. pots, 30c, 40c and 50c; 6-in., 60c to 75c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots, 25 to 30 in high, 50c to 60c; 4-in., 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25 30 40 to 45 in. high, 75c, $1.00 $1.25, $1.50 to $2.00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c, 60c to 75c.

Jerusalem Cherries, large plants, full of buds, 6 to 6½ in. pots, 35c, 50c.

Moonvines (Ipomœa Multiflora), best white Moonvine, for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

Have an Immense Stock of Easter Plants.

Please state if in or out of pots.

☞ All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., **Philadelphia. Pa.**

Importer, Wholesale Grower and Shipper of Pot Plants.

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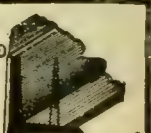

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Carnations, Enchantress, Rose Pink Enchantress, White Perfection, Melody, White Lawson, $2.50 per 100; $20 per 1,000. White Enchantress, Winsor, Beacon, Victory, Aristocrat, Vesper, $3.50 per 100; $30 per 1,000. Splendor, $6 per 100; $50 per 1,000. East Sudbury Greenhouses, So. Sudbury, Mass.

Carnations, Mrs. J. C. Vaughan, $12 per 100; $100 per 1,000. Winsor, White Perfection, $3 per 100; $25 per 1,000. Rose Pink Enchantress, Victory, $3 per 100; $20 per 1,000. Jensen & Dekema, 674 W. Foster Ave., Chicago.

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Carnations, Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson, Harlowarden, Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Carnation Georgia, $12 per 100; $100 per 1,000. Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

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Carnations, leading vars. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

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Carnations. Peter Fisher, Ellis, Mass.

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Cineraria hybrida, 4-in., $10 per 100; 5½ and 6-in., 25c to 50c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Ferns, Boston, 2¼-in., 3c; 3-in., 6c; 5-in., 25c; 6-in., 40c; Piersoni, 7-in., 60c; 8-in., 80c. Scottii, Whitmani and Elegantissima, 2¼-in., 5c; 3-in., 10c; 6-in., 75c. Amerpohli, 2¼-in., 10c; 3-in., 20c. Mosbæk Greenhouse Co., Onarga, Ill.

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Palms, Areca lutescens, 4-in., 25c. Kentia Bel., 5 leaves, 5½-in., 25 to 30 ins., 50c to 60c; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Primula obconica, 5-in., $2 per doz. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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AMOOR RIVER PRIVET, 300,000, all sizes. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

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Rhododendrons. Jacs Smits, Naarden, Holland.

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Rhododendrons, Parson's hardy vars., 8 to 12 buds, 18 to 24 ins., $75 per 100; 12 to 14, 24 to 30 ins., $100 per 100. Storrs & Harrison Co., Painesville, O.

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Grafted 2½-in. pots	Per100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.0C
Own Roots, 2½-in. pots.		
My Maryland	$10.00	$90.00
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

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Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 107-9 Randolph St., Chicago.

Glass, French and American "White Rose." Steuzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No right or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 10c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburgh, Pa.

Glazing points. Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chcago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. Y.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction and equipment. King Constructon Co., North Tonawanda, N. Y.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters. Jenning's improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides, tobacco paper, 24 sheets, 75c; 144, $3.50; 288, $6.50; 1,728, $35.10. Nicofume liquid, pint, $1.50; ½ gal., $5.50; gal., $10.50; 5 gals., $47.25. The Kentucky Tob. Product Co., Louisville, Ky.

Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton, $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

Insecticides. Nicoticide Bug Killer, the best bug killer and bloom saver. P. R. Palethorpe Co., Owensburg, Ky.

Fumigating supplies, vaporizing pans for tobacco extract, improved. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

"Sulfocide" Pratt's Soluble Sulphur Summer Spray. B. G. Pratt Co., 50 Church St., New York.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, O.

KNIVES.

Razor steel, hand forged, postpaid. Propagating, 50c; budding, 35c; grafting, 25c; pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, Ohio.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

MISCELLANEOUS.

OILED APRONS AND COATS.

Guaranteed waterproof and will wear much longer than rubber clothing with same care and cost less. Colors, yellow or black.

Aprons, size about 30"x45", 10 oz., 75c each, 12 oz., 85c each.

Long coats, yellow, $2.75 each, black $3.00 each.

¾ coats, yellow, $2.40 each, black $2.65 each. The long coats reach to shoe tops and the ¾ coats reach to knees. When ordering state color desired, also size coat you wear.

KEYSTONE MANFG. Co., 5th and Girard Ave., Philadelphia.

Krick's Perfect Plant Stand No. 1, including 10-inch saucer and rest, $2.35; No. 2, 14-inch saucer and rest, $2.50. W. C. Krick, 1166 Greene Ave., New York.

Kifts new fern and berry globe, 5-in., $3 per doz.; 6-in., $4; 7-in., $5. Partridge berry sprays, $3 per 1,000. Robt. Kift, 1725 Chestnut St., Philadelphia.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products, The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Kinney pump, prepaid, $2. The Hose Connection Co., Kingston, R. I.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Pl., Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Wire work, second to none. Wm. H. Woerner, 520 N. 16th St., Omaha, Neb.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co, 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Stuttle's patent pipe clamp. Henry Stuttle, Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, N. Y.

PUMPING ENGINES.

Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

SPRAYERS.

U-N-I-T Globe Sprayer, $3.50 prepaid. J. F. Cass Mfg. Co., Dept. A., Detroit, Mich.

STAKES.

Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

Morehead Return Steam Traps. Morehead Mfg. Co., 1047 Grand River Ave., Detroit, Mich.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Baskets for florists, see advertisement in this issue for sizes and prices. Coles & Co., 109-111 Warren St., New York.

Supplies. Cape flowers, cycas leaves, metal designs and all florists' supplies. A. Herrmann, 412 East 34th St., New York.

Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburgh, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

Supplies, wire designs, etc. The Cleveland Cut Flower Co., 215 Huron Road, Cleveland, O.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

Supplies of all kinds. A. L. Randall Co., 19-21 Randolph St., Chicago.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Iron reservoir vases. McDonald Bros., Columbus, O.

If you do not find what you need in our Ready Reference Department, write us about it.

THE WHILLDIN POTTERY COMPANY

THE LARGEST MANUFACTURERS OF

STANDARD FLOWER POTS

PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

Standard Flower Pots!

Packed in small crates, easy to handle.

		Price per crate			Price per crate
1500	2-in., in crate,	$4.88	144	6-in., in crate,	$3.16
1500	2¼ "	5.25	120	7 "	4.20
1500	2½ "	6.00	60	8 "	3.00
				HAND MADE	
1000	3 "	5.00	48	9-in., in crate,	$3.60
800	3½ "	5.80	48	10 "	4.80
500	4 "	4.50	24	11 "	3.60
456	4½ "	5.24	24	12 "	4.80
320	5 "	4.51	12	14 "	4.80
210	5½ "	3.78	6	16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

BILFINGER BROS. POTTERY, Fort Edward, N. Y.

or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

Those Red Pots

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.

HARRY BALSLEY, Rep. **DETRIOT, MICH. 490 Howard St**

Florists' Refrigerators

Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.

McCRAY REFRIGERATOR CO.

960 Mill Street, KENDALLVILLE, IND.

H. BAYERSDORFER & CO.,

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA

Send for our new catalogue.

Albuquerque, N. M.—Mayor Lester and a number of other prominent business men have formed a company to organize an up-to-date greenhouse plant, and stock has been placed for $25,000, the amount of capitalization. The old Huning mill site has been obtained and work will be started at once on a 15,000-foot greenhouse. Besides growing cut flowers under glass a portion of the grounds, which are very beautiful and will be improved, will be devoted to hardy flowers and nursery stock.

Baskets for Florists

COLES & COMPANY,

109 and 111 Warren St., NEW YORK.

—Write for 1909 Catalogue—

ARROW BRAND

TILLS OR VERBENA BASKETS.

MADE THE CORRECT SIZE. WHITE WOOD. BEST QUALITY.

No.	Capacity	Inches Long	Inches Wide	Inches Deep	Packed in Crates of	Weight per crate	Cost per 1000
1	1 quart	8¼	5	2½	500	104	$ 7 50
2	1½ "	9½	5¼	3	500	117	8 00
W. Scant	2 "	10	6	2¾	500	125	8 50
13	2 "	10	6	3	500	133	8 75
3	2¼ "	9¾	5¾	3½	500	133	8 75
10	2½ "	10	6½	3¼	500	140	9 00
11	3 "	10½	7	4	500	171	9 00
12	3½ "	11	7	4	250	97	10 00

With detatached wire handles if required, $2.00 per 1000 additional.

SYRACUSE RED POTS

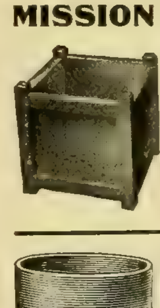
Spell **"Prosperity"** For Nurserymen.

One season's trial is convincing proof of their superiority.

Get price list

SYRACUSE POTTERY CO., Syracuse N. Y.

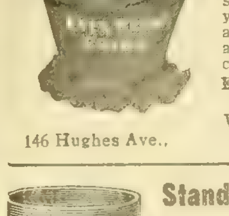
MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.

WAGNER PARK CONSERVATORIES, Sidney, Ohio.

DECORATING FLOWER POTS



A BUSINESS NEED

Send fifteen cents in stamps and we will mail you a cover, price list and booklet, explaining all about these great covers.

EVER READY FLOWER POT COVER CO.,

W. H. Grever, Manager, 146 Hughes Ave., **Buffalo, N. Y.**

GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.

361-363 Herndon St., CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for Prices.

A. F. KOHR,

1521 Leavitt Street, CHICAGO

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

Mention the American Florist when writing

Unrivalled for all Purposes.

THOMSON'S Vine, Plant and Vegetable MANURE

Only Medal Edinburgh, 1886.

Gold Medal Edinburgh, 1891.

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES

The result of many years' **Practical Experience.** Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants. **Freight paid on quantities.**

Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.

WM. THOMSON & SONS, LTD.,
Tweed Vineyard, Clovenfords, Scotland.

Sold by the leading American seedsmen.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. **$1.50 per gallon.** Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

WASHINGTON, O.—Poole & Purllant have sold their greenhouses to the Robert Buck Florist Co.

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers. Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

Vi Fluid

THE IDEAL WINTER SPRAY SCALE KILLER & FUNGICIDE

POWERFUL CLEANSER AND INVIGORATOR

Mixes Instantly. No Sediment. No clogging. Non-injurious to user

COMPARATIVE TEST WILL PROVE ITS MERITS

Quart, $1.00; Gallon, $3.00

1 gallon makes 100 gallons. Write for descriptive pamphlet and testimony

PROPS. WM. COOPER & NEPHEWS
177 ILLINOIS ST. CHICAGO

Freight prepaid on direct orders. Mention this paper.

THE BEST Bug Killer and Bloom Saver

For **PROOF** Write to

P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

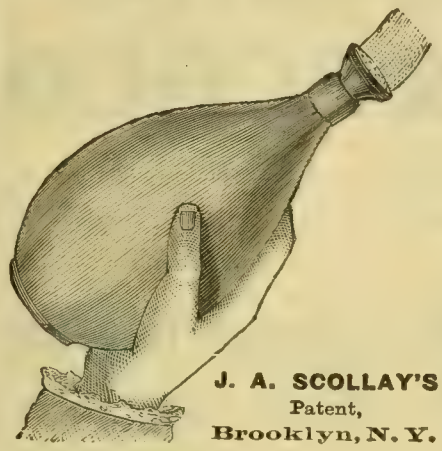
Iron Reservoir Vases AND Lawn Settees

Manufactured by

McDONALD BROS.,
COLUMBUS, O.

The largest manufacturers of these goods in America. Send for catalogue.

Send Advts. Early for Best Service.



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Patent,
Brooklyn, N. Y.

Scollay's Plant Sprinklers

FOR CUT FLOWER TRADE. Also the

Scollay Putty Bulb

FOR GLAZING GREENHOUSES, Etc.

The Scollay Plant Sprinkler is in its 35th year. Thirty-five years of experience should count for something—we have given attention to quality in every respect—making of seams—selection of high-grade rubber. During these 35 years there have appeared more than 35 imitations, all the way from hand levers—tee ends—breakable tops down to Chinese and Boston Blowers—and, after all, the fact remains the same, that we are still the real thing in rubber sprinklers, etc. No one is so new or old in the cut flower trade that he can keep shop without **Scollay's Rubber Plant Sprinklers.** Every sprinkler guaranteed free from imperfection in manufacture.

For Sale by All Prominent Seedsmen.

JOHN A. SCOLLAY, 74-76 Myrtle Ave., **Brooklyn, N. Y.**

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S

SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use **1** part to **75** or **100** parts of water.

B. G. PRATT CO., 50 Church St., New York, U. S. A.

U-N-IT

Spraying device for garden hose. It brings out in solution, with water what is put into Globe. Fertilizing solutions, soap solutions, insecticides, fungicides, germicides, etc. **All Seedsmen and every Florist Supply House should have it.** Retail price $3.50 prepaid. Wholesale prices on application.

Address Dept. A.

J. F. CASS MFG. CO., Detroit, Mich.

Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

Pat. Nov. 21, 1899.

KRICK'S

Perfect Plant Stand

This Stand Is Adjustable and Folding

Can be raised from 24 to 40 inches in height

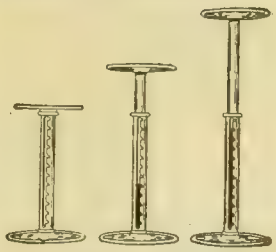
The top of stand is furnished with a saucer and curved rest, SHOWING PLANTS TO BEST ADVANTAGE in decoration.

Are Tastefully Finished in Aluminum and Gilt.

No. 1, including a 10-inch saucer and rest.....$2.35
No. 2, including a 10-inch saucer and rest..... 2.50

W. C. KRICK

1164-1166 Greene Ave., **Brooklyn, New York**



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:
Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

Garden City Sand Co.

Chamber of Commerce Bldg., CHICAGO.
Phone: Main 4827.

BUILDING AND PROPAGATING SANDS,
Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,
R. I. W. DAMP RESISTING PAINT.

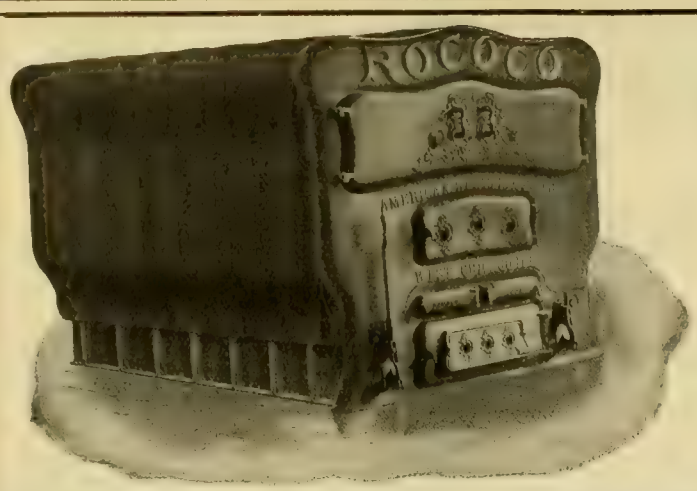
"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

OLEAN, N. Y.—The Olean Floral Co. is going out of business.



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The ROCOCO

Steam or water boiler will do its share.
A boiler built for practical florists.
Boilers Perfect... ...Prices Right.

American Heater Fdy. Co.
West Chicago, Illinois.

WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
Send for Catalog and Prices.
S. WILKS MFG. CO.,
3525 Shields Ave. CHICAGO.

CHRIS. PFEIFFER BOILER CO.,
66-68 Michigan Street, CHICAGO.
We build a special steel hot water boiler shipped ready for operation. No brick required.
Phones; Main 4361. 4399.
Mention the American Florist when writing

STEEL Return Tubular BOILERS
The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.
JOHNSTON HEATING CO.,
138 East 31st St., NEW YORK.
Mention the American Florist when writing

Southampton, N. Y.

The bi-monthly meeting of the Horticultural Society was held Thursday, February 18. Vice-president U. G. Ager in the chair. After the regular routine of business, B. C. Palmer explained how to grow sweet peas, and a discussion followed. Chas. E. Frankenbach gave a few points about transplanting trees, growing wild in the surrounding woods, such as cedars, mountain laurel, etc. The schedule for the next show to be held in July, was sent to every member of the society. There is hope for a keen competition. G.

PARMA, MICH.—F. G. Hubert has just built a new greenhouse here, using the material of the King Construction Co., of North Tonawanda, N. Y.

WASHINGTON, D. C.—Out of respect to John H. Small, president of the board of trade, whose father died a few days ago, the directors of that body decided February 16 to postpone the next regular meeting until March.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade. **Estimates Furnished Free,** Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old; 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler, 60 horse power. 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted; ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

Greenhouse Boilers.
A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers. Cast Iron Sectional boilers, etc.; some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters.
Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$600.**

Boiler Flues. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.
4-72x18 Horizontal tubular boilers, 100 lbs. pressure.
4-72x16 Horizontal tubular boilers, 95 lbs. pressure.
2-66x16 Horizontal tubular boilers, triple riveted **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.
2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings; we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

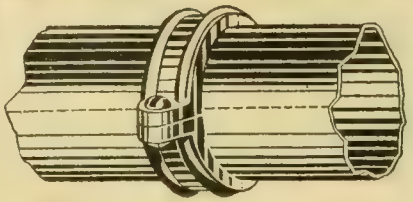
SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!
Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets, CHICAGO.

WORCESTER, MASS.—The main boiler in the greenhouse plant of H. F. Littlefield, 94 Coburn avenue, burst February 16, blowing out one part of the boiler and breaking considerable glass.

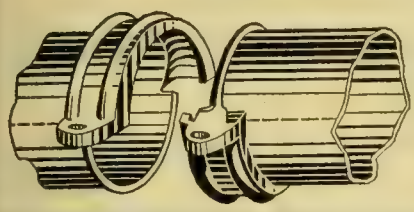
MARQUETTE, MICH.—E. R. Tauch is going to nearly double the capacity of his greenhouse plant this spring and has bought considerable land for nursery and outdoor cut flower stock.

Stuttle's Patent Pipe Clamp



Especially adapted for joining old boiler tubes now so generally used in hot-water heating of greenhouses. Also it is invaluable for utilizing old cast-iron pipes which otherwise would be consigned to junk pile.

Easy to put on in any position and even more easily removed.
Cheap as the cheapest joint in use and 100 per cent superior.



HENRY STUTTLE,

Inventor and Patentee.

BATAVIA, - ILL.

PATENT APPLIED FOR.

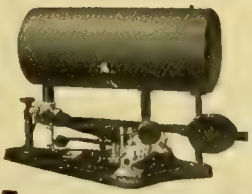
Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM. MOLL,
1664 Columbus Rd., CLEVELAND O.

For Greenhouses



MOREHEAD
Return Steam Traps

Embody all the Modern Requirements in a Steam Trap for Greenhouse Service.

Simple in construction and operation, can be installed anywhere and occupies small space. Requires no special attention, no lubrication, repacking of joints and glands, or repairs of any kind. Handles water at any temperature, never sticks, operation always visible. Works automatically nd absolutely reliable. Sent on 30 days trial.

MOREHEAD MFG. CO., 1047 Grand River Avenue, Detroit, Mich.

Montreal.

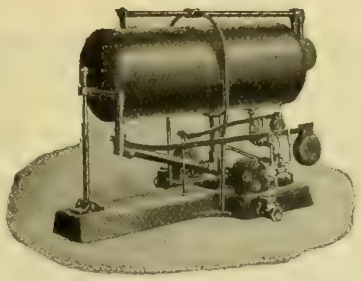
The carnival week was responsible for a good trade in this city, the hotels being crowded with visitors and numerous banquets and other functions called for decorations, both for table and hall. The weather was mostly too severe to allow any flowers to be worn outside but nevertheless the amount of sales recorded was greater by far than the previous weeks. Roses are still scarce but of improved quality: Killarney is still a great favorite with Richmond a close second. Some regard Canadian Queen as their favorite, but it is doubtful if it holds good with the public. American Beauty is considered by many florists as a gamble; they are never sure of a profit on it, as the flowers are often left on their hands; evidently the people of this city are not always inclined to pay the high price which they command. Carnations are not over plentiful but just fill the demand. Enchantress is well liked, also White Perfection and Lady Bountiful. The Lawsons seem to be dwindling away before their superiors.

Easter plants are coming along nicely, such as good lilies, but some poor, mixed lots have again been dumped on the growers this year. Hydrangeas will be nice this year. Growers who listened to Prof. Lochhead's lecture will know a remedy for the yellow foliage so common in forced specimens. The remedy, the professor said, is a lack of iron in the soil. Iron makes green leaves as well as blue flowers. Hyacinths and other bulbous stock sell well this season.

NOTES.

Hall & Robinson, during carnival week, had some blocks of ice in front of their store with tulips, daffodils and other flowers frozen inside of it, a suitable novelty for the occasion admired by many.

"DETROIT" RETURN TRAPS



"Detroit" Return Trap. (Patented)

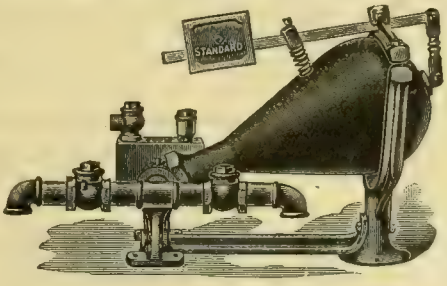
Will keep any Steam heating system free from water making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. **DETROIT, MICH.**



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

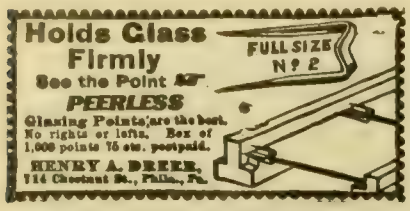
Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

E. HIPPARD, Youngstown, O.

Leo McKenna has put himself through a short course at the MacDonald College, St. Annes, and now will have to be admitted to the ranks of the profession.

LUCK.

COLORADO CITY, COLO.—Endicott & Groves have completed a $1,500 improvement on their greenhouses at 209 North Eighth street, which doubles their capacity.



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Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

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Lock the door before the horse is stolen, and insure your glass before it is broken.

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JOHN G. ESLER, Secretary

SADDLE RIVER. N. J.

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to collect an account is to place it with the

National Florists' Board of Trade

56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

Indianapolis.

VERY LITTLE DOING.

Business the last week has been almost at a standstill, but flowers of all kinds are good, plentiful and cheap. Considering that Lent is upon us, the outlook is not very rosy. Bulbous pot plants have made their appearance on the market in unusual numbers.

NOTES.

Messrs. Schreiber and Ellis, of the Bertermann Floral Co., and Hyatt, of Stuart and Haugh, Anderson, made a trip to New Castle to inspect the rose-growing establishments.

Roepke & Reiman, who make a specialty of summer roses, have fine prospects for this season. Varieties grown are Kaiserin, Liberty and La France.

Bertermann's new yellow carnation is making a hit with foreign florists. E. G. Hill has a new yellow rose to match it.

Meyer Heller has left the hospital after a very successful operation.

Another new flower store has been opened on North East street.

Pecky cypress is quoted at $15.50 per 1,000 feet in this city. J.

MARLBORO, MASS.—Winthrop L. Lewis has been petitioned into involuntary bankruptcy at the instance of four creditors with claims aggregating $500.

BROOKLYN, N. Y.—A fire, February 24, in the rear of Edward Mucko's store caused a loss of nearly $500 on furniture and stock. The losses are covered by insurance. It is probable that the blaze resulted from a defective flue.

Attention!! Glass Buyers!!

—Buy Now. Next Week May Be Too Late—

Prices have advanced at factories, but we still have a large stock of fine quality GREENHOUSE GLASS bought on old basis, and which we are offering this month at ATTRACTIVE PRICES.

If you do not need glass at once, you can send a cash deposit with order, and we will reserve the glass for you.

Our Prices on Hotbed Glass Will Surprise You.

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,

Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

MODERN PRIZE WINNING PLANTS

They bloom and operate the entire year. We are the

World's Largest Producer

of Greenhouse Glass

Ask the dealer and insist upon having our brand. If he cannot supply your wants, write direct to headquarters.

AMERICAN WINDOW GLASS CO.

Farmers' Bank Building, PITTSBURG, PA.

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Sunlight Double-Glass Sash Company

929 East Broadway LOUISVILLE, KY.

The double layer of glass does it

Lets in the light always.
Never has to be covered or uncovered; no boards or mats needed.
Retains the heat, excludes the cold.
Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
Ask for catalog A. It tells all about Sunlight sash.
Special catalog for greenhouse material

The James H. Rice Co.

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GREENHOUSE GLASS

A SPECIALTY.

Window Glass, Paint, Putty, etc.

Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

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250 ILLUSTRATIONS ANNUALLY
Specimen number free.
Subscription, $2.40 yearly.
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Chilwell Nurseries, LOWDHAM, Notts, England

LEAD, S. D.—Alexander Rose, formerly in business here, has sold out and removed to Fallon, Nev.

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IT is bound to cost you more to build in the near future. Save your money by building now. Give us a chance to estimate. We furnish plans free with all orders for materials.
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The KROESHELL BOILERS
IS THE ONLY PERFECT
HOT WATER BOILER.
(NOT CAST IRON)
Has water in front, sides, top and a water back.
Made in 15 sizes, heating 6,000 to 50,000 square feet of glass to 60° at 15° below zero.
Prices and cata ogue on application.
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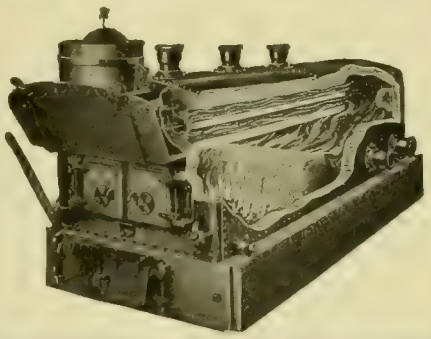

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We are in special position to furnish "PECKY" CYPRESS; everything in PINE and HEMLOCK BUILDING LUMBER. WRITE FOR PRICES.
Adam Schillo Lumber Co. Cor. Weed and Hawthorn Sts., CHICAGO. Tel. Lincoln 410 and 411.

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CATALOGUES
OUR SPECIALTY
WRITE FOR FIGURES.
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Catalogues, Colored Plates,
CALENDERS, POST CARDS, ETC.,
Wood Labels and other supplies.
Send for Catalogue.
VREDENBURG & CO.,
ROCHESTER, NEW YORK

Louisiana Red Cypress

As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress, we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

Cincinnati.

STOCK MOVING WELL.

Trade is about the same as last report. A nice line of stock is available and moving well, the only glut being in bulbous stock; sweet peas are also more plentiful and the same may be said of lily of the valley. Green goods, such as Asparagus Sprengeri and A. plumosus are shortening in supply and, as is usually the case, a good demand for same.

Weiland & Olinger's roses are coming into crop nicely and they now receive two shipments a day from their greenhouses at New Castle, Ind. Particularly worthy of mention is the fine color of Bridesmaid and their flowers of Bride are world-beaters. Any person under the impression that these two varieties are playing out ought to have a peep at this firm's roses.

John Evans, of ventilator fame, was a caller this week and Will Murphy had him in tow. Between visits to the different greenhouse establishments Will and John were keeping the pin boys busy on the different alleys. It seems as though there was a new arrival at John's home, the fourth boy, and maybe he was only celebrating.

We have a new florist in our midst, although sorry to say, only temporarily, as Miss Anna Weiland, of Evanston, Ill., is on a visit to her sister, Mrs. P. J. Olinger, of Belleview. While resting the other day Miss Weiland showed some of the boys how to make a floral piece, a la Chicago.

Wm. H. Gear, the genial over-the-Rhine retailer, is generally the early bird in the wholesale district in the morning. Billy as a rule is done with his buying and going back to the store when the other buyers arrive. He is some hustler, that boy.

Will Murphy is cutting the finest carnations of his career. To see a day's cut from his place is good for the eyes. As a side line Will is handling mushrooms and we might add that he is selling them, too.

Will Gardner and Charley Critchell are going to do the elegant at the next club meeting. It has been hinted that deviled crabs are on the bill of fare.

Wm. C. Hollstein, formerly with Hardesty & Co., is now the head decorator for the Walnut Hills Floral Bazaar. A good man in the right place. S.

Nashville.

Spring has so far opened up that the growers who have no up-town stores are coming into the market-house, where they have stalls, with fresh and vigorous looking plants and cut flowers.

McIntyre Bros., who are in the market with flowers whenever the weather is favorable, had a beautiful display.

Arnold Schmidt is a familiar figure in the market, and he deals in both flowers and vegetables. M. C. D.

Have You Heard About the Sash Bar Hinge?

It is the only hinge to use on your greenhouse if you have ventilators opening at the ridge.

Write us, and we will tell you about it.

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THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK. MARCH 13, 1909.** **No. 1084**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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AMERICAN ROSE SOCIETY.

Annual meeting and exhibition at Buffalo, N. Y., March 17-19 1909. AUG. POEHLMANN Chicago, President. BENJAMIN HAMMOND, Fishkill-on-Hudson, N. Y., Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH Adrian Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg Pa. January 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster Pa., Secretary.

ALBERT M. HERR, President elect; A. F. J. BAUR Secretary-elect.

Rose Number

NEXT WEEK.

Send Special Advts. Early and insure a good location.

CROSS FERTILIZATION OF THE CARNATION.

By the Originator of Enchantress and Beacon.

A paper read by Peter Fisher, Ellis, Mass., before the Massachusetts Agricultural College, Amherst, February 24, 1909.

Suitable Houses and Aspects.

I presume you have already been addressed on the subject of the best types of greenhouse construction and as this plays a very important part in the improvement of carnations, I will merely touch upon the subject. My preference is for a span roofed structure, with continuous ventilation, on each side of the ridge, and on sides, with raised benches, thus insuring a free circulation of air. The house may be built running north and south or east and west, as location and other circumstances permit. The east and west aspect has the advantage for about six weeks in mid-winter; the north and south about equal during early spring and fall, with a decided advantage during hot weather.

Selection of Varieties for Crossing.

Only the healthiest and most vigorous stock procurable should be used, and such varieties as embrace a wide range of self-colors are most desirable. To obtain the best results, the colors should be classified, keeping the different shades of light pink, dark pink, whites, crimson, reds, etc., together. By following up this method, a much larger percentage will come true to color in crossing than where this is done promiscuously or hap-hazard.

High Standard of Culture Necessary.

If the plants at the period of cross fertilizing, are in robust health, producing strong, vigorous shoots, which usually mean correspondingly large blooms, the seeds will invariably be large, of much greater vitality, producing strong and vigorous seedlings, from which one may naturally expect something phenomenal. On the other hand, if the parent plants are poorly grown, weak, spindling, and lacking in stamina, their seedling progeny is sure to be of like quality. The most decided results and greatest advances in my experience have always been obtained from parent plants exhibiting unusual strength and vigor.

There is not, as far as I know, any means of ascertaining before hand, just what the result of a cross will be. If crosses are made between colors of a like shade, and their progeny year after year, by continuing this method, the seedlings will, to a large extent, be a reproduction of the parents as to color. The habit of plant will often resemble either parent, or be exactly intermediate, but there is no certainty in the matter, as the most unlooked for colors appear at times, such as a pure white from the crossing of two reds, or vice versa. We can only hope and work towards the desired end, and if we stick to it long enough success will ultimately crown our efforts. One can invariably attain to anything they make up their minds for, providing they have the staying qualities, which defeat only spurs on to greater effort, and here let me tell you is the explanation for the "good luck" of many. It comes simply by "sticktoitiveness." By some I have been termed "lucky" in the production of some desirable varieties. I leave this to your own judgment.

Plenty of Patience Needed.

For instance, I worked six years, without satisfactory results, to procure a worthy successor to Daybreak. During those years I raised hundreds of a similar color, but, as the song says: "There was always something wrong." Flowers too small or too large and split, or stems too weak, plants lacking in constitution—something out of balance. In these efforts I had been using the pollen of Daybreak on other varieties. It occurred to me that I might be working along the wrong lines, so I reversed my tactics. By using the pollen of the Lawson color cerise on the variety Mrs. Bradt, a white ground variegated with red, I procured Enchantress. Lawson was raised from Daybreak, a flesh-colored variety, pollen from Van Leeuwen, a dark pink.

You see the color of Daybreak cropping out. Was this simply chance or was it the working out of Mendell's theory? There is food for reflection and careful study along these lines. Again I may say that, from a batch of first

year seedlings tested three years ago, we retained 250 scarlets for a test in the greenhouse, and today we have three left of the 250 varieties, with the possibility of disseminating one. Of the remaining 3,250 we retained four, with a possibility of disseminating two or three at most. Think of it, four out of 3,500; then tell me where the luck comes in! Yet a few years ago hundreds of those varieties so discarded would have been called wonders. It is owing to the present high standard of the carnation that it becomes more difficult each year to produce a decided acquisition. Yet, looking backward through the earliest years of my experiments, I can see where I discarded many a fine carnation through this critical sifting down. Still it is much better to be on the safe side.

Time to Commence.

The best time to commence cross fertilization is during late October or early November, that is, just after the disappearance of flies and bees that usually come into the greenhouses on the approach of cold weather. Pollen at this season is also more plentiful than during December, January or February. The best time in the day to cross-fertilize is from 11 a. m. to 2 p. m., the earlier the better (providing, of course, that the day is warm and sunny and the pollen perfectly dry). In transfering the pollen, some use a magnifying glass, camel's hair brush and pair of tweezers. I have never used either, until recently when I found it necessary to use eye glasses. I do not believe in the method practiced by some in removing the petals of the flower when half developed, as I think it injurious to the normal development of the other important parts of the flower, so essential to success. My custom is to split the calyx in three or four places, so that the petals can drop down around the stem, thus leaving the pistil, stamens, anthers and stigma fully exposed to light and air. The stamens can in this way be easily removed between the thumb and finger (forefinger) with the anthers and pollen intact, and transmitted as desired.

In using the camel's hair brush for conveying the pollen there is danger of getting it mixed, as it is difficult to clean the brush before using on a different cross. In crossing, one should always have a definite object in view—an ideal to work up to. Keep in mind the very best of the various types now in existence, also their defects; then go to work with a determination to excel. The first requisite, and one to be always kept in mind, is a healthy, vigorous constitution, that means disease resisting. Next comes color, always indispensable, for no matter if all other points have been obtained and the color is undesirable, the plant is only good for re-crossing, because of its desirable habits. Then one must work for the necessary stem and strong calyx to hold the flower erect. Size, form, substance and, last but not least, fragrance, must all be considered. Fragrance I regard as indispensable. The process of cross-fertilization is so simple that I need not go into it in detail.

Proper Stage for Crossing.

One must study the various varieties to be used, and fine judgment is sometimes required to know when the flowers have reached the proper stage for the experiment. In some varieties the pollen is perfectly ripe and ready for use as soon as the flower expands, while in others it does not appear for several days after the bloom develops. On the ends of the stamens are the anthers which, when they burst, produce the pollen. When ripe it is in the form of a powder. The stigma is the part to which the pollen is applied, and as it reaches the proper stage for fertilization the upper surface assumes a rough, hairy appearance. It is now ready for crossing, and upon this surface the pollen should be spread, being careful that it is properly ripe and dry, when it will be seen to adhere easily. If fertilization has taken place, the petals of the flower will wilt and fade within from one to two days, and often in a few hours, which is a sure indication that the operation has been a success.

After the petals dry up, they may be removed without danger of injury to the seed pod forming, and to prevent accumulation of moisture which might otherwise cause the pod to decay. Flowers fertilized early in October and November will usually ripen their seed in about six or seven weeks. Those crossed in December and January and February require eight to ten weeks, and those in March about six weeks.

Hat Trimmed with Natural Flowers.

Gathering and Sowing the Seed.

The seed pods should be picked with four to six inches of stem attached, carefully wrapped in paper, or enclosed in envelopes and allowed to dry thoroughly. This usually requires about two weeks. The seed should then be carefully removed and planted at once. Flats thoroughly drained with a layer of one to two inches of ashes, over which a like quantity of sifted loam of a light sandy nature has been spread, makes an ideal compost. Level off carefully, press moderately firm, sow in rows one to 1½ inches apart and ⅛-inch deep, which can be made by pressing a narrow strip of wood into the soil—cover carefully with about ⅛-inch soil, water with a fine sprinkler and place upon a shelf in a light situation out of the reach of mice, who are extremely fond of carnation seed. One mouse, if he gets busy, will destroy hundreds of seeds in a night. This happened to me one season when I had sown the seeds in 4-inch pots, which were placed on a bench, and I had omitted to cover them with a sheet of glass, as was my custom then. I lost almost an entire season's seeds by my neglect, in one night, and I confess I did not feel very kindly toward that mouse next morning.

After Treatment.

Great care should be taken to keep the soil moderately moist. If the sun is bright, a paper should be spread over the flats during the day, and removed towards evening. This prevents too rapid evaporation. The seed will usually germinate in from four to ten days, when all shading should be removed and the flats kept in a light airy position free of draughts. It requires good judgment in watering to prevent damping off by excess of moisture, or injury by becoming too dry. When the seedlings have developed their second leaves, they should be transplanted into small pots or flats; I prefer the latter, as there is less danger of a check by becoming too dry. They should be kept in a light airy position to insure a compact growth, in a night temperature of 45° to 50°. Then they can be planted in the field during May, when danger of check from frosts has passed. Plant in rows similar to general varieties. Those making a compact, bushy growth should not be stopped back but allowed to bloom, to determine whether they are worthy of being transplanted into the greenhouse later for a further test. Those inclined to run up with a single stem and no side growths should have the centers pinched out, so as to induce a bushy growth, so valuable later, should the variety prove an acquisition. The idea of encouraging the seedlings to bloom early is to be able to select from the field those worthy of further trial in the greenhouse. This enables one to save much valuable space that might otherwise be taken up by worthless sorts.

Selecting the Seedlings.

In selecting seedlings from the plants that have flowered in the field, only those developing desirable characteristics should be taken into the greenhouse. The usual results from a batch of seedlings raised from the ordinary commercial varieties is 50 per cent singles, 35 per cent splits or abnormal blooms, 15 per cent non-spliting. These figures sometimes vary to less singles and more split blooms. It is often desirable to save single varieties exhibiting profuse blooming qualities and healthy, vigorous constitutions. Select those with a strong, well-formed calyx, and wide petal; make the single variety the seed bearer, using pollen from extra double and even split varieties. Later I may be able to give more definite data from experiments in this direction. Beacon is the first variety I have disseminated, raised from a single yellow variety crossed with a double scarlet seedling. The selection of desirable colors is a very important matter. One is apt to get enthused about some particular shade, prejudiced in favor of his own, so to speak, for you know every fellow usually "thinks his own crow the blackest."

The buying public are, after all, the real critics, and I have found it to be a pretty safe rule to abide by the taste and selection of the ladies, as they inspect and comment upon the various shades of color, in the seedling house. I can well remember when Enchantress was in its second year with some 35

plants in bloom, the ladies used to stop and exclaim "Magnificent," "Exquisite." Of course a smile of satisfaction on my part was the result, as I thought, "Here is a winner." In conclusion, let me urge upon you to get all the theory you can, put it into practice, but don't stick to any man's "say so." Work with a definite object in view. Keep careful notes, watch results, and keep before you as a watchword and guide to success, first, last and all along, the word "selection."

THE RETAIL TRADE

WITH this issue appears our sixth supplement. Are you placing them in a folder where they will make a useful and valuable album for your counter sales?

Cross and Crown.

SEE SUPPLEMENT WITH THIS ISSUE.

The design figured herewith is one that has been popular for many years and is likely to be so for many more for when well carried out it is very beautiful. The individual cross and crown figured was made of Bride roses and adiantum and contains some very good work. We may suggest as an improvement to those about to construct such a design that the upper arm should have been lengthened a little while a few less roses on the lower arm would have given a rather better outline and a more artistic finish. As will be noted, the artist has kept his flowers well apart so that each rose tells and this is good policy as it saves stock and gives a better effect.

Various combinations may be used in this design. We have had a splendid effect by using cattleyas and Adiantum Farleyense on the cross, the crown being of solid violets. This gives a sharp distinction between the two and is effective and rich. The base was filled with ivy and Adiantum Farleyense with a cluster of cattleyas in the left corner. Another lovely design was made of Lilium longiflorum on the cross and the crown of Marie Louise violets both made solid. The base was of green galax and Asparagus Sprengeri with a cluster of lilies on the left and a clump of mignonette on the right. Pansies again may be used in many delightful combinations and there are fine effects to be had from carnations and various roses, but these will vary with the season and will at once suggest themselves to the florist of taste who has the stock at hand. S.

Hats With Natural Flowers.

Ladies' hats trimmed with natural flowers are among the novelties displayed in Chicago, Marshall Field & Co. having taken this means of attracting attention to their spring millinery display. As the suggestion may be of some value to retailers in the way of advertising their own craft, we show herewith one of the hats displayed and will describe some of the features of the exhibit.

Three ordinary, upright glass cases were used and arranged to give a woodland effect. The first one showed, beside the bonnets, a floral parasol. This was made up of the so-called air plant and Asparagus plumosus with violets and pink azalea blooms to add color. On the handle were the same flowers attached with a long white ribbon.

The hat shown in our illustration is an effective design with a ground work of air plant and Asparagus plumosus. The pink and white roses are well foliaged and the color effect is heightened by a sparing use of Trumpet daffodils and Paper White narcissus. As in the parasol and the hat just described the air plant is most liberally used as the ground work for practically all designs. Asparagus plumosus or A. Sprengeri are used in conjunction with the same to vary the effect. Another hat was trimmed with white roses, white sweet peas and purple pansies.

Very effective was one design with white and Enchantress carnations, those in front standing erect with a gradual rise from the rear. Another was of tradescantia with sweet peas circling the hat like a band with two bunches of violets at one side. Another hat in which tradescantia was used with the air plant showed a single bunch of violets with small sprays of Roman hyacinths.

A hat showing the use of a growing plant was trimmed exclusively with pink primulas on the usual ground work of air plant. A long pink ribbon trailed behind to heighten the general pink color effect. Somewhat on the same order of hat was one using well fruited strawberry plants, Paper White narcissus and red carnations. This was the only hat in the exhibit using the traditional bird in the trimming.

It will be recalled that a Merry Widow hat design was shown as a supplement in the AMERICAN FLORIST, issue of February 20. Such a design, or possibly an arrangement of two, or three, or four, as described above, could be used as a very effective window attraction for the approaching Easter season. And it may also be possible to secure good advertising results by arranging such an exhibit in some well located milliner's window, a neat card giving name and location of the florist furnishing the flowers or decorations as the case may be.

BRIDE'S SHOWER BOUQUET.

By Graser & Humphreys, Mt. Sterling, Ky.

Fine Bridal Shower Bouquet.

Roses, lily of the valley and orchids are the principal flowers used in the well arranged bridal shower bouquet herewith illustrated, and they are effectively and well put together. Graser & Humphries, of Mt. Sterling, Ky., were the makers of this shower, which was used

at an important local wedding. This firm has quite a good repute for high class work of this kind and the natural and pleasing arrangements it puts up give great satisfaction to its patrons.

La Grange (Ill.) Floral & Seed Co.

One of the tastiest and most attractive flower shops in northern Illinois is that of the La Grange Floral & Seed Co., Walter Scott, manager. La Grange is one of the largest of the Chicago suburbs and on a prominent street and in a new building, not yet quite completed. Mr. Scott opened his store on February 19. In his first window decoration he showed a life size wax figure, carrying a well made-up basket of white carnations, Bride and Richmond roses and adiantum. At one side of the figure was a large plant basket containing an arrangement of primulas, latanias and Asparagus plumosus. A couple of vases of roses, a vase of Enchantress carnations, a few plants of Otaheite orange, and a background of palms, ferns and araucarias, completed the arrangement. This window was a constant attraction to the people of the town, especially on Sunday, February 21, the bright sunny day being particularly favorable to the purposes of any well arranged window display.

The wax figure shown was one of the best money could buy, and instead of being a constant feature will only be used for special occasions, as, for instance, showing a typical spring girl in an Easter arrangement soon to come. Mr. Scott has demonstrated in this window what might be called a form of cooperative advertising, the wax figure being able to obtain the tastiest and most fashionable hats and gowns for the mere placing of a small card giving the name of the tradesman or tradeswoman supplying the same, and the ladies of the town, while admiring the millinery, etc., become interested in the flowers.

And the beholder, in the event that he or she has been given such an impulse by the display to step inside and buy, is not disappointed by the interior arrangement. Here the 12½x50 feet of space has been laid out with a view to the greatest possible convenience and attractiveness. A case with glass sides and top serves as a counter for the effective display of cut flowers or plant novelties. About the room are shown various designs of plant boxes, many of them appropriately filled with ferns, palms, Otaheite oranges, etc. Quite a large aquarium, well furnished and well stocked, is also included among the appointments of the store. At this season of the year appropriate space is devoted to the seed department of the business.

Sweet Peas and Asters for Market.

ED. AMERICAN FLORIST:—

What are the best varieties of sweet peas and asters in solid colors for selling in the market? E. R.

Among the best varieties of sweet peas the following easily head the list: White, White Spencer; shell pink, Countess Spencer; lavender, Lady Hamilton; red or scarlet, Queen Alexandra. In asters the list below will fill the bill for early midseason and late: Early Wonder in white and pink, Crego's Giant Comet, white and shell pink; Late Branching, azure blue, deep rose, white, shell pink and lavender. F. B.

Gardenia Culture.

A paper read by Wm. Kleinheinz before the Florists' Club of Philadelphia, March 2.

The best time for propagation is January and February. Select cuttings from strong growing, healthy plants. I have experimented with propagating in sand, in half peat and half sand, and in a mixture of fine chopped sphagnum moss, peat and sand in equal parts, and have found this latter mixture the best, producing the strongest roots. It is very important to give sufficient heat, say 75° to 80° bottom heat and 70° to 75° on top. Syringe two or three times a day, protect from the sun, and never allow any draught to strike the cuttings.

Under this treatment the cuttings will be rooted in from 20 to 25 days. Then the young plants must be potted into 2-inch pots in a mixture of half peat and half well-rotted compost. Never allow them to get dry, and protect from the sun for three or four days. Keep the house at a temperature of 68° to 72° at night and 75° to 80° by day, for about one week, until the young roots are coming through the soil, then commence to reduce the temperature to 65° to 68° at night and 72° to 75° by day, and the young plants will soon begin to grow. In from three to four weeks they will be ready for a shift into 3 or 3½-inch pots, and the shifting must be continued as often as necessary. Never allow the plants to get pot-bound. All the buds must be removed to secure a good, healthy growth.

In July the plants should be in 5- or 6-inch pots, and this is the time to plant on benches. Be sure to have good drainage in all cases, especially in the benches, as this is a very important item. The soil must be one part rough peat and two parts well-rotted compost, with a little sand. I find it well to mix a little pulverized sheep manure with it. The distance to plant is about 12 to 15 inches each way, but great care must be exercised in planting, to see that it is not done too deeply, as the young, fibrous roots always run on top and these are the ones to take care of. Plant solidly, but not too firmly, and leave a little drain around each plant, so that every one can be watered separately. Two weeks after this the bench can be leveled off and packed some, but not too firm, to give the water a chance to run through the soil quickly.

From September on the critical time begins, as the plants will now show buds, and we all know that the most difficult part of flowering gardenias in winter is to keep the buds. Great care must be exercised from then until February. The falling of buds is caused by irregular temperature, over-watering, running too dry, and by syringing with very cold water. Great care must be taken to avoid these mishaps. The night temperature should be 65° to 68° as nearly as possible, but never below 65°, and by day should be about 10° higher. As soon as the fibrous roots show on the surface a light top dressing of half compost and half sheep manure must be applied, and repeated as often as necessary. This is one treatment under which I have grown gardenias with success, but I have tried another way also, with good results.

I have been growing my plants up to 7-inch pots under glass all summer. By August 1 I removed the glass and kept

FLORAL EMBLEMS AT FUNERAL OF THE LATE E. V. HALLOCK, MARCH 6.

Lilac, Lily of the Valley and Croton Leaves. From the Executive Board, S. A. F. (By Young & Nugent.)

the plants without glass until September 15. This ripens the wood and the flowering buds can be found at the end of each growth by this time. The plants have to be moved under the glass again when the nights get cooler. I have planted a bench, when the plants have been treated in this manner, by October 1 and cut a very fine crop of flowers from December 15 on. This method gives anyone the chance to have gardenias in succession if they have different houses to plant in rotation, as you can hold them in a cool house at about 52° to 55° at night, until wanted for forcing.

By planting in the bench, it is understood that I mean to give them the same treatment as in the first method. The varieties grown are principally Veitchi or Florida and Floribunda. Gardenia Fortunei produces larger flowers, but is more suitable for summer flowering. All plants have their enemies, so, also, has the gardenia. The worst of all is the mealy-bug. Syringing with a mixture of Lemon oil and Rose-leaf keeps them in check, but the best and surest remedy is prevention. This can be accomplished only by heavy syringing with a good force of water, in summer three times a day, and, as the days get shorter, one or, on bright days, two applications.

WITH THE GROWERS

Emil Buettner, Park Ridge, Ill.

We recently visited the range of Emil Buettner at Park Ridge, Ill., and it is a very long time since we saw a neater, cleaner, or more prosperous looking lot of houses. Everything was in the pink of condition and the color on the carnations was remarkable. About 60,000 plants are benched here and some of the varieties were hardly recognized, so much finer in color were they than some we have recently seen. The old Lawson, for instance, was simply magnificent and a great mass of fine flowers and buds. Winsor, too, was in excellent shape, the characteristic stiff stems being topped with flowers of the most delightful pink and of great size for this variety. Other varieties, such as White Perfection and all the more popular kinds are grown, but we were particularly interested in Lady Bountiful. The flowers were the purest white of any we have ever seen and in such order it is certainly a grand variety. Whether it is the pure air of Park Ridge, the soil or the treatment, we are not prepared to say, but certainly the stock is magnificent in every respect.

About 15,000 Easter lilies are grown here for that holiday, but no attempt is made to keep up a succession at other times. The plants looked fine and they were being sorted into the different sizes when we were there, the most favored being taken to a cool structure, those behind being given more heat. Multiflora is the variety grown. Bulbous stock, outside of these and a few narcissi, is not much grown. We were much interested in the houses devoted to lilac. The plants are grown in small, narrow structures and heavily shaded at first. As the flowers show color they are brought to the lighter, unshaded parts of the house and given more air and a lower temperature. It is interesting to see the plants in all stages, from the swelling buds to the finished flowers and the time taken is about one month. Roses, principally Killarney, Richmond and Bridesmaid, were in excellent order, flowering freely and with flowers of extra fine color, like the carnations. Not a dead leaf or bit of rubbish is allowed about the place, which is a marvel of order and tidiness from end to end.

FLORAL EMBLEMS AT FUNERAL OF THE LATE E. V. HALLOCK, MARCH 6.
Cycas Leaves, Carnations, Violets and Freesias. From the New York Florists' Club. (By Meyer.)

Mrs. Mary A. Reissig, Riverside, Ill.

A fine new range of glass in the pink of cultural condition is that of Mrs. Mary A. Reissig of Riverside, Ill. On July 6 last, Mrs. Reissig took over the personal charge of the place she had long leased to other growers and her remarkable energy is evidenced by the fact that within three weeks time she had started to pull down the houses and in good time before the first frost had a range 140 by 175 feet completed and planted, and the new Number 14 Kroeschell hot water boiler installed ready for firing. The range consists of six 150 feet houses, of material furnished by the Foley Manufacturing Co., one 20 feet wide, one 26 feet wide, three 15 feet wide and one 32 feet wide. Along the ends of these houses run two leantos, one being 15 feet wide and that on the other end being 10 feet wide.

This new range is on the identical site of one erected in 1873 by the late Charles Reissig, who at that time built five houses to which additions were subsequently made until his glass surface reached 50,000 square feet. In 1891 he retired from the active management of his business and rented his greenhouses, which arrangement continued until his death on February 24, 1892. Mrs. Reissig continued the same policy, leasing her greenhouses to various growers. About 10 years ago she tore down the old range and rebuilt, with Schmidt & Meyer in charge.

Last summer she determined to re-enter the business and rebuilt once more as stated above. The place throughout is in the best of shape. A notable sight is that of one complete house of callas, there being in this house over 1,000 plants, and such success is being had with these that they will easily average four flowers to each plant, some running as high as six flowers to the plant.

Sweet peas for spring flowering are also a feature here, two benches being devoted to this crop. The principal varieties grown are Blanche Ferry and Gladys Unwin (pink), Emily Henderson (white) and Lady Hamilton (lavender). These are looking fine for Easter cutting. Close by is a bench of candytuft, the young plants coming along nicely for flowering by Doceration day. The principal crop is carnations, there being about 10,000 plants, Lawson, Lady Bountiful, Enchantress and Red Lawson being the varieties grown. O. P. Bassett will be grown next season, 1,000 plants of this fine new red seedling having been ordered. Some White Enchantress and White Perfection will also be grown.

Mrs. Reissig grows about 3,000 bulbs, including Roman hyacinths, Narcissus Paper White and N. Von Sion (single daffodils). The daffodils have all been cut out. About 2,000 freesias were also grown, the season being from about the

middle of January to the middle of February and they were fine while the season lasted. There is also a miscellaneous stock of palms, ferns, geraniums, begonias, vincas, pansies, etc., for planting outdoors. In their season chrysanthemums are also grown. Asparagus Sprengeri occupies some bench room for cutting.

This range of glass and the old home which Mrs. Reissig still occupies is set in the midst of a plot of 15 acres of land, part of it is the well known Reissig grove, of oaks, walnut, hickory, etc., the scene of many florists' picnics, and other kindred events. Just outside the greenhouses are grown asters and peonies. The place was once famous for its imported hybrid roses which Mr. Reissig had selected in Europe and were long the finest of their kind in this part of the country.

Chas. Ehrhardt, Park Ridge, Ill.

At Park Ridge, Ill., Chas. Ehrhardt has a neat and well arranged plant principally devoted to violets. When calling on him recently he was picking fine Princess of Wales and California, the principal single varieties grown. Mr. Ehrhardt has three new houses, altogether 71½x100 feet, built last summer, of material from the John C. Moninger Co., of Chicago, and he speaks highly of the excellent fit and quality of this material.

After the violets are over the houses will be planted to asters, some of the early benches being already planted. He grows about 30,000 of Carlson's White and Carlson's Pink and these produce fine flowers with 14-inch stems. Double violets are not much grown, but we noted a few Farquhar. Mr. Ehrhardt does not consider his soil suitable for the double varieties. It seems a fairly good holding soil and we can answer for it that it sticks well to the shoes, the day we visited here being a "soft" one. The place is well arranged, and it is a clean and well managed little plant, the proprietor himself being actively engaged.

Verbena Cottage Greenhouses, Westfield.

The Verbena Cottage Greenhouses at Westfield, N. Y., is an enterprise that has grown rapidly. W. B. Woodruff is the proprietor and when a mere lad in 1867—he commenced raising early vegetables and plants in a 3x6 hotbed, disposing of his produce to neighbors. He always found a ready market and, by means of book canvassing and other methods, he gradually increased his sash and eventually secured a greenhouse, his total of glass in 1870 being 180 square feet which he practically built himself. After many disappointments, squarely met by the young horticulturist, he found himself on his feet and has now about half an acre under glass, eight acres of land, a fine dwelling and large barns, coal sheds, etc.

Violets at one time were grown but the spot got so bad that he had to relinquish their culture and he turned more largely to pot plants. Verbenas—as may be gathered from the name of the place—were largely grown during the time they were popular, as many as 8,000 each year being shipped all over the United States. Mrs. Woodruff is greatly interested in the business and her innate love for flowers makes her a splendid hand at all kinds of decorations and designs of cut flowers of which there are seldom enough to meet the ever increasing demand. Besides looking after his home business Mr. Woodruff has charge of many private places and parks and is noted for his geniality and good business ability. The water supply is from two deep wells pumped by a windmill and hot air engine. Cattle are kept to provide manure and the place is heated by hot water. Coal is purchased annually in April, at the cheapest time, and the soil is stacked in August, a maxim of Mr. Woodruff's being "always be ahead of time."

R. B. Hayes, Shelby, O.

The establishment of R. B. Hayes at 68 to 71 South Gamble street, Shelby, O., is composed of eight houses, 100 feet long and 15 to 20 feet wide. He has 16,750 square feet of glass, all 16x16, and the houses are all cypress construction. The houses are connected and the gutters are 6½ feet in the clear. A gravity steam system is used, and natural gas for fuel. A Standard pumping engine with a Kewanee tank attached furnishes the water supply for greenhouses and residence. By connecting the cooling cylinder from the discharge back to the suction pipe it tempers the water for use to 60° in the coldest weather.

The benches are solid, except 20 feet at the east end, where they run over a basement story that has the boiler, coal room and store room under. Mr. Hayes certainly has a very up-to-date place, as he keeps abreast of the times and is considerably ahead of most growers. Everything is in the pink of condition, carnations, roses, lettuce and other crops growing in soil that, he tells me, has been in the houses 15 years. Mr. Hayes does some hybridizing of carnations and has several good ones. No. 93 is a white, three inches and over, a cross between Flora Hill and Enchantress, a non-burster, good constitution and fine keeper. No. 1061 is a fine red, 3 to 3½ inches, a good grower, good keeper; 32 plants last year produced more flowers than 250 Flamingo in the same bed for Christmas. No. 96 is of the color and habit of Enchantress, and does not burst, and 1105 and 1103 are pinks of the Lawson shade. He also grows Enchantress, Rose Pink Enchantress and Boston Market, besides his seedlings, and they are all looking fine. He does a wholesale and retail business, and his stock has a good reputation over this part of the state. Shelby being located at the junction of the Big Four and B. & O. railroad the shipping facilities are good. His latch string is always out to visiting florists. C. W.

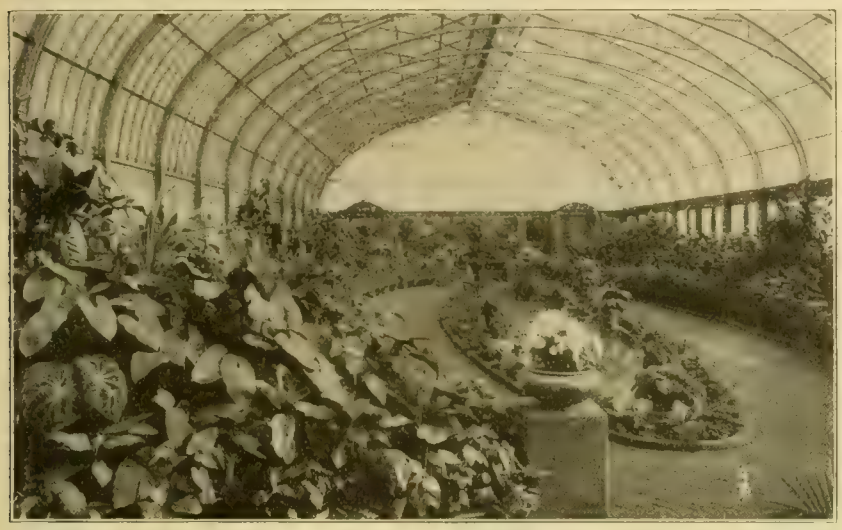
FLORAL EMBLEMS AT FUNERAL OF THE LATE E. V. HALLOCK, MARCH 6.
Violets, Lilies and Leucothoe. From the Chicago Florists' Club. (By Young & Nugent.)

Garfield Park, Chicago, Conservatories.

The large conservatories at Garfield park, Chicago, are now very attractive, the plantings of palms, ferns and other subtropical and temperate plants having made a good growth during last summer and fall and a large number of ornamental foliage and flowering plants having been grown in the adjacent propagating houses for purposes of decoration. It is of course much too soon as yet for the full beauty of the planting scheme to be seen. Time only is needed, however, as the plants have been well laid and Gardener Sells has his plants well in hand. Many of the smaller palms will have to be taken out later when they begin to get crowded and then the fern

vistas and the pretty views of the fernery through the large house will be at their best.

There will be considerably more variety in the plants here than is usual in such places and it is to be hoped that as they develop their proper size and habit, which they have plenty of room to do in this immense structure, that a good system of labeling will be kept up so that the public may see and take an interest in the many plants of economic value as well as decorative such as the bananas, cocoanut palms, various rubbers and others. Entering the large house from the east side there are fine banks of flowering plants such as azaleas, cinerarias and bulbous stock that give a very bright bit of color here, while winding walks lead to the sunken fernery and indoor water garden where various water lilies and lotuses are flowering finely.



FOLIAGE PLANTS AT THE CONSERVATORIES, GARFIELD PARK, CHICAGO.

In the other house figured there is a very varied collection of all the leading fine foliage plants and in the house devoted to flowering plants alone, there are many beautiful orchids and other seasonable flowers. Of the former, Cattleya Trianæ, Calanthe vestita, Oncidium sarcodes, Dendrobium Wardianum, Phaius maculata, Phalænopsis Schilleriana and others are flowering freely, but we would like to suggest a few more ferns of graceful habit being introduced as a foil to the orchid flowers. The New Holland and semi-hardy plants and conifers in another annex are growing into shape nicely and will be an interesting feature. We only had time for a hurried look into the propagating houses but here everything was in first class order. Large numbers of foliage and flowering plants, bedding stock and orchids are being prepared to keep up the display in the large structures and the need of these houses is now only too apparent. While everything outside is dull and dreary these fine houses are a splendid place for the public to visit and that they are appreciated is shown by the number of visitors one can always see there.

TRENTON, N. J.—Local posts of the G. A. R. have united for the purpose of sending a floral boat down the river from this city on Memorial day, following the example of the veterans of Easton, Pa. The boat will be named New Jersey, and on its trip will be kept close to the New Jersey shore.

HARDY HERBACEOUS PERENNIALS.

The Iris and Its Culture.

While the genus iris is confined almost exclusively to the northern hemisphere ranging from the Atlas mountains in northern Africa to a latitude of about 40° north, the iris family is closely represented in the tropics by the moræas and maricas, similar in effect but botanically distinct; while crocus, gladiolius, freesia, tigridia and ixia are familiar genera and serve to represent the family in all parts of the temperate and tropical world.

The genus iris, or, as popularly known, the fleur de lis, rainbow flower or poor man's orchid, contains more than 170 described species, according to J. Woodward Manning in a paper read by him before the Massachusetts Horticultural Society, of which about 100 have been cultivated at times by American horticulturists, while somewhat more than 130 species are grown by English iris fanciers, but some of these fail to combine sufficient distinction, beauty or ease of culture to warrant their extended use. While, perhaps less than 100 species are to be recommended for cultivation in American or particularly New England gardens, this is but a fraction of the number of varieties which by selection or cross fertilization have been produced and contribute most advantageously to garden ornamentation.

The question of the best species, their peculiar requirements, if any, their ornamental and color effect, the improvement of their varieties and their season of bloom are matters of interest to the flower lover. It is possible, too, to very materially extend the period of bloom as compared with the usual results attained. Such irises as figure in horticultural uses are divided into two classes, those of bulbous nature and those with rhizomes, the latter varying in this character from the conspicuous surface rhizomes of the very familiar German iris to very narrow, inconspicuous, subterraneous types of rhizome in which the roots are the more conspicuous.

The bulbous irises are most familiarly known as English and Spanish, both of which have been very greatly improved by selection. The English iris (I. xiphioides), grows 18 to 24 inches high and bears two or three flowers on a stalk. These vary in color from the purest white form, Mont Blanc, through shades of lavender, blue and purple, of which later color Lord Palmerston, with deep rich crimson purple falls and purple-claret standards, is perhaps the best. Many too are showily striped, flaked and blotched with shades of richer colors than the general tone of the flowers. The Spanish iris (I. Xiphium) has taller and more conspicuous standards than the last and the markings are more clearly defined on the falls than is the case with the English iris; possibly the improvement by selection has covered a longer period with the Spanish

VIEW IN THE LARGE NEW CONSERVATORY, GARFIELD PARK, CHICAGO.

iris. In any event such a variety as Thunderbolt is very noteworthy in its comparatively large flower and it grows two feet or more high. The flowers are richly colored bronze, with a remarkably broad signal patch of yellow on each of the falls. The better varieties of this class are Blanche Superba, of purest white, Golden Cup, a very popular yellow and Cantab, of ultramarine blue, with orange blotch and dark blue standards.

Both English and Spanish irises are of easy garden culture, planted in autumn, the English iris requiring the greater moisture of the two, the bulbs being planted at a depth of from three to five inches while a mulch is an advantage. There are a few other species of tall growing bulbous irises, such as I. juncea and the rare I. Boissieri, but they probably are seldom imported and do not compare horticulturally with the selected varieties of the last two species.

The dwarf bulbous species are most familiarly represented by I. recticulata, a native of Palestine, varying somewhat in type but gorgeous in coloring with its brilliant shadings of purple and gold and a delicious violet fragrance. Flowering as it does naturally in March our climatic conditions require its cultivation in frames to protect the flowers from staining by dampness, though it is hardy and can be used very advantageously in rockeries or in protected, sunny situations within easy access to the house. The Armenian iris (I. Bakeriana) is even earlier, but less showy, though of rich markings of purple and orange in connection with its general blue tone. I. Vartiana is another species from Asia-Minor, but more difficult to manage than the others and more tender.

Another class of bulbous species are known under the name of Juno irises, natives of the Caucasus, Afghanistan and northern India. They have comparatively large bulbs and require well drained situations and a thorough sun baking in summer to insure their continuance and future flowering. They have generally leafy stems with several flowers closely set to the stalk and combine all the ranges of coloring in the family. They closely follow the last group in their flowering period, but their inadaptability for cutting and the peculiar cultural conditions they demand without particular increase in their color range fails to promise much for their culture in American gardens except to the fancier. Of them I. Rosenbachiana, I. Sindjarensis and I. Assyrica are perhaps the best.

ELKHART, IND.—Henry Schenk, proprietor of the greenhouse north of the city, Charles Schenk and their sister, Mrs. W. H. Troyer, who left here for Dayton, O., March 2, in response to a message that their mother was dead, received a second message just before starting that their brother was also dead at the same place.

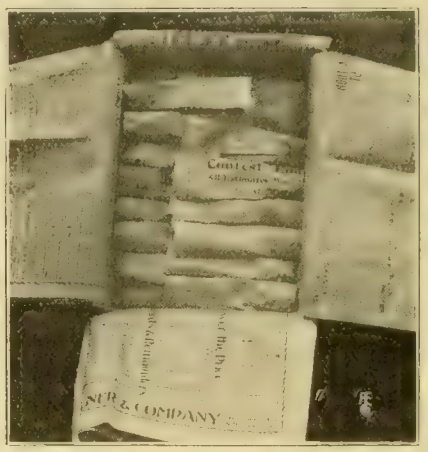
WHITMAN, MASS.—Under a foreclosure of mortgage the Barrows greenhouse property passed March 2 into the possession of J. R. Callahan & Co. of Bridgewater. Negotiations are now in progress to take care of the interests of H. H. Barrows, and it may be possible that the property will again come into his possession. The property has been the subject of some contention of late.

CHRYSANTHEMUMS

Packing Plants.

This subject may be of little interest to the majority, yet it is just as important to have the plants reach the customer in good condition as it is to produce good plants. When there is danger of freezing, the box in which they are to be packed is lined with old newspapers to keep out the cold. How many thicknesses to use will depend upon the severity of the weather, but usually from 6 to 12 will be sufficient. We receive many packages which reach us in good condition, when they have not been securely lined, but sooner or later such a shipper will sustain a loss.

When a package is turned over to an express company the shipper has little



Chrysanthemum Plants Properly Packed.

conception of what route, how many times it is to be transferred from one road to another, how long it may be on the trucks waiting for a late train and the weather conditions at distant points. For this reason it is wise to be on the safe side. We lined a mail package with six thicknesses of paper, wrapping the whole with cotton wadding and this package is the only one reported frozen this winter. The same party sent us a package by express using but three sheets for lining and it arrived safely. We merely mention this to show how little we know regarding the conditions which exist after the shipment leaves our hands.

Plants to be shipped should be thoroughly watered, turned out of the pots, wrapped tight in pliable paper to keep the earth intact. They are placed in rows close together on their sides with the ball of earth next end of box. This is followed by another row in which the ball is placed next to that of the first row. This operation is repeated until the bottom of the box is covered. The next tier is reversed by beginning at the other end of the box. The main object is to pack so closely as to prevent them from shifting. The illustration shows how the box will appear after the plants are in position. Should there be an intervening space between plants and lining, fill it with excelsior, sawdust or some other light material, so that the plants cannot move if the package is turned upside-down.

We find there are many who evidently fail to recognize this most important factor. Of the few details incident to this operation this is really the one upon which success or failure depends. They may be wrapped loosely and a little dry or wet without great loss provided they cannot shift. Expressmen are not always careful in handling such packages, and if there are intervening spaces between the plants they are sure to suffer in transit. The soil in which they are grown is heavy and when transported a great distance these air spaces are disposed of by the weight of the soil.

Should the package be turned over several times before reaching destination the contents will doubtless be in confusion, with the soil off the roots as well as many broken plants. When several varieties are put into one box they are usually separated by sheets of paper. When danger of frost is over the wrapped plants are set upright in shallow boxes, which are provided with a post in each corner, extending above the plants, to which cleats are nailed, to the two end posts. These cleats form a support for the cover which consists of thin slats that are nailed about an inch apart to admit air. This method of open packing is the most satisfactory when the weather will permit. It also allows the expressman to see the contents, and is thus not usually handled as roughly as when the closed system is employed. Do not use cut flower tags on a box of plants. The former are billed at merchandise rates and the latter is favored with 20 per cent discount.

ELMER D. SMITH.

Raising Chrysanthemums from Seed.

Chrysanthemum seeds germinate very readily. A temperature of about 50° in any glass structure will answer the purpose admirably, and if the boxes or pots in which the seed is sown can be placed where a little brisk bottom-heat can be obtained, the seed will germinate very rapidly and successfully, says Gardening Illustrated. We prefer to sow the seed in shallow pans or shallow boxes, crocking these carefully, and filling them with a mixture of light soil, loam, and leaf-mould in equal proportions. Add thereto a free sprinkling of coarse silver-sand, and mix the heap thoroughly. If the boxes and pans be filled with this compost, the seeds sown very thinly thereon, and subsequently just lightly covered with some of the finer particles of soil, and a sheet of glass placed over them, germination will quickly take place.

The soil should be thoroughly moistened at the time of sowing the seed. This is best done by holding the boxes or pans in a vessel of water, allowing this to percolate up through the holes in the bottom of the different receptacles until the soil is thoroughly saturated. If this be done in the first instance, it is possible no more water will be required until the seedlings are well developed. In the course of a month or so, the seedlings may be pricked out into other shallow boxes. They should be dibbled out in rows about two inches apart, and a similar distance observed between each seedling in the rows. If the soil be pressed firmly about the roots, growth of a sturdy character will subsequently develop, and to keep young seedlings sturdy the boxes or pans should be stood on shelves near to the glass. As soon as the severe weather is past stand these receptacles in a cold frame where the seedlings could be gradually hardened off, and ultimately the lights should be entirely removed, preparatory to planting them outdoors in well-prepared soil

in early May. Those who have time and opportunity, rather than wait until May to plant out these young plants, would possibly prefer to prick the seedlings off again into larger boxes, or into any rough cold-frame outdoors.

When planting the seedlings outdoors in early May, observe a distance between each plant of about two feet, and about two and one-half feet between the rows, taking care always to plant firmly, in order to keep the plants stocky. A stake must be inserted as soon as the plants begin to make progress, and should any of them show a disposition not to branch out into lateral growths, the tops of the shoots should be pinched out, as this will make the plant bushy and branching.

Outdoor Chrysanthemums.

ED. AMERICAN FLORIST:—

What are the best chrysanthemums for growing outdoors for early flowering in British Columbia? Is the new Golden Glow suitable and, if so, what treatment should it receive? E. R.

Success in growing chrysanthemums outdoors largely depends on climatic conditions and for this reason it is difficult to give advice. In southern Michigan there are very few of the early pompons such as Mlle. Elise Dordan or Tono, which are in flower early in September. It is possible that other varieties would flower earlier in British Columbia than they do here, in fact, we think it quite probable. Many varieties which flower in England during August and September are six weeks later with us and the climate of western British Columbia ought to be similar to that of England.

Golden Glow was planted outdoors last season for the first time, but it did not make flowers as early as those planted inside. It was a very dry season and this may in part account for this difference. If we had to select varieties for this purpose we would use Polly Rose, Glory of Pacific, Midge, Golden Glow, Carrie, Opah and Comoleta, for these are the earliest of the Japanese section. There is no special treatment required for Golden Glow. Rich soil, liberal cultivation, ample moisture, restricting the plants to four or five branches and disbudding them is all that would be necessary. This should give good bloom, provided they will set bud early enough to develop flowers before frost.

ELMER D. SMITH.

A Census of Floriculture.

Every member of the trade is, or should be, interested in obtaining a correct census of floriculture, and the following schedule has been sent us by the chief statistician of the bureau of the census, Washington, D. C., owing to the good offices of the Society of American Florists. This schedule should be taken as suggestive and it has been issued with a view of eliciting criticisms and other suggestions by the trade. The preparation and collection of this class of data is very troublesome work and it behooves everyone to assist as far as he possibly can. The information given is used for census purposes only, and has nothing to do with taxation or any other matter. All are invited to offer suggestions as to how these questions can be improved and should address L. G. Powers, chief statistician of the Bureau of the Census, Washington, D. C. Their suggestions will be looked forward to as an aid to the bureau in its work and will be given every consideration.

FLORIST'S ESTABLISHMENT.

1. Name of person, firm, or corporation conducting this establishment .....
2. Location of greenhouses: street and number.....
city or town ..... county ..... state .....

Note.—Inquiry 2 calls for the location of the greenhouses, while a corresponding inquiry on the first page refers to the business office. When the office is at the greenhouses the answers should be identical; otherwise, different.

3. Is this establishment owned or rented by person, firm, or corporation conducting same? .....
4. In renting, what is the amount of annual rental paid? $.....
5. Value of establishment: *a.* Land covered by greenhouses and by residence of operator (provided the latter is a part of this establishment) $..... *b.* Greenhouses and fixtures $..... *c.* Residence of operator (if a part of this establishment $.....; *d.* Equipment $.....; *e.* Live stock $.....
6. Total ground area in the establishment, including land covered by greenhouses, residence, etc. (square feet) .....
7. Total square feet of ground covered by greenhouses in the establishment .....
8. Total square feet covered by sash for hotbeds and by frames .....
9. Average number of persons employed in the establishment in 1909 .....
10. Total amount paid for labor in 1909 ..... $.....
11. Total amount paid for advertising, catalogues, and postage in 1909 $.....
12. Total amount paid for soil, stable manures, chemical fertilizers, and tobacco and other insecticides in 1909 ..... $.....
13. Total value of fuel consumed in greenhouses and office $.....
14. The number and value of field grown and pot grown plants and the amount received from the sales of those plants, and flowers cut therefrom, in the year 1909.

Note.—After this inquiry report only those plants which are grown by yourself; omit any bought for immediate sale. Do not make any entry in the spaces marked X.

Name of plant.	Number of plants grown and sold.	Amount received from sales of plants grown and sold.	Amount received from sales of cut flowers.
a. Roses		$.....	$.....
b. Carnations		$.....	$.....
c. Violets		$.....	$.....
d. Chrysanthemums		$.....	$.....
e. Lilies, hyacinths, tulips, and other bulbs		$.....	$.....
f. Other plants for cut flowers, including those grown outdoors		$.....	$.....
g. Decorative plants, including palms and ferns		$.....	$.....X
h. Bedding and blooming plants		$.....	$.....X
i. Hardy plants and shrubs		$.....	$.....X
j. Vegetable plants and vegetables		$.....	$.....X
k. Small fruits, including strawberries		$.....	$.....X
Total of all plants (lines a to k)		$.....	$.....

THE VIOLET.

Commercial Varieties.

Respecting the comparative merits of the double and single varieties, in a few of the larger cities the doubles are more popular with the dealers; this is entirely a local condition, due to the facts that in those localities the doubles are exceptionally well grown and the singles are not. When we reflect that in but a few restricted areas of this great country, it is possible to produce, at a profit, really fine double violets, while the single varieties seem to do well almost everywhere, the comparative value of singles and doubles to the trade is very apparent. It also seems to be evident that on those markets where both are shown in equally good form the singles have the preference and soon dominate the trade. For long distance shipping, however, the doubles will always lead, for although they lose the greatest charm of the flower—fragrance—they do keep their shape.

Of doubles we really have but two distinct varieties: Marie Louise and its various sports—all very similar in appearance and culture to the parent—and Lady Hume Campbell. The profitable culture of the former type is, I think, restricted almost entirely to the Hudson river section and some parts of the Pacific coast, while Campbell does nicely in many places. Most of the varieties of doubles brought out recently by European growers (and they are few in number) seem to be of the Marie Louise type and of little value in this country

The real beginning of the single violet industry in this country dates from the introduction, by a California grower, of a French variety, re-named by the introducer, California. This was the first winter blooming single violet of a respectable size of flower, and its introduction created quite a sensation. It was a

ESTABLISHMENT OF F. R. GILLMANN, RHINEBECK, N. Y.

big advance and is still largely grown in some sections. This introduction must have been about 18 years ago. Some five years later the list was enriched by the addition of two grand varieties from the same source (southern France) Princess of Wales and La France. The latter variety proved fine for early and late bloom, but inclined to be sleepy in midwinter. Princess, however, quickly took its position as the best single violet in cultivation, which place it has maintained to date. It is too well known to require description or criticism here.

During the past 10 years a number of American varieties have been partially introduced to the trade. Most of these originated from a single flowering deciduous type, quite common in the upper south. They were almost odorless, of comparatively small size, and of little value commercially. The only exception was the variety Boston, put out in 1908. This is a supposed sport of Princess of Wales, varying a little in color, but with quite distinct foliage. Reports of its behaviour vary greatly with different growers. It is only fair to the variety to withhold judgment until it has had a more thorough test in different sections and under varying conditions of culture.

During the same period the growers of France, Italy and Germany have introduced a number of varieties, most of which the writer has had under test. A majority of these kinds it is not necessary to mention by name as they proved of no value under our system of cultivation. In this list I would place Italia, Mlle. Pages, Perle Rose, Souvenir de Jules Josse and many others.

The two that stand out pre-eminent in the whole list, and that have proved of value commercially, are Kaiser Wilhelm and Baronne Rothschild. The Kaiser is of the Princess of Wales type, with flowers of better substance, long, stout stem, and with vitality equalling Princess when first introduced; fragrance not pronounced. Flowers as freely as the old favorite. Briefly described it is an improved Princess of Wales.

Baronne Rothschild with us has proved the best single violet ever tested, flowers of improved California type, larger, and with broader petals; keeping qualities of the best. It is the most fragrant variety—single or double—we ever handled, and retains its fragrance for a number of days. Color darker than Princess, stem long and strong. But it is in its free blooming qualities that it leads the whole procession. The foliage is small for a single and the whole vigor of the plant goes to the production of flowers. Coming into flower September 1, it keeps up the good work continuously until May 1—a month earlier and a month later than Princess. The originators claim that it will give two flowers to one of Princess. This seems a fair claim as with us it has done even better. Perhaps, like other of our emigrants, it does better in America than at home.

VIOLA.

Ornamental Bedding.

ED. AMERICAN FLORIST:—

Please tell me how I can cut out the correct form for a shield about 20 feet long on a lawn. Also how to make a crescent.

S.

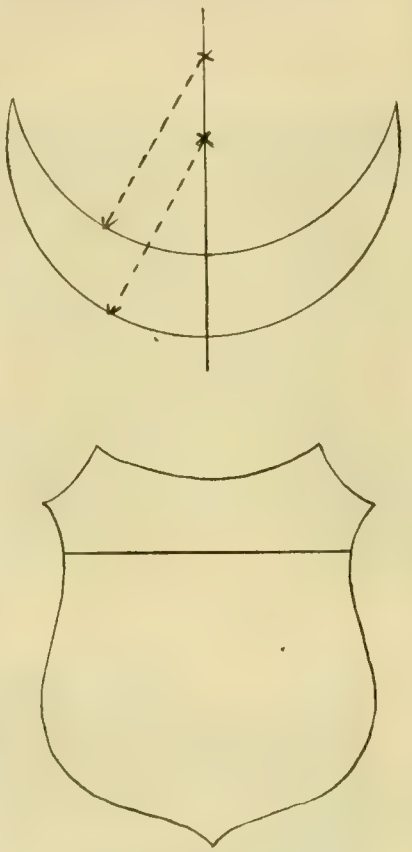
Enclosed designs will give "S." an idea how to make a shield and a crescent. The shield is drawn to scale one inch =10 feet. To make a crescent use the same radius for both lines, but from different points, which are both at right angles with the crescent and are governed by the width of the bed desired.

ALOIS FREY.

Lincoln Park, Chicago.

Clerodendrons.

There are very few greenhouse shrubs or hard wooded plants so easily cultivated as the clerodendron and when well grown there are not many that will so fully repay the attention given to them. Years ago clerodendrons (especially specimen plants of C. Balfouri) were frequently seen at exhibitions in the classes calling for stove or greenhouse plants in bloom, but of late years the growing of them, even for this purpose, seems to have fallen off. Their merits as bright, useful flowering plants are such, however, that there is no doubt but they will again be grown extensively. C. Balfouri, the variety mostly grown, is of a climbing habit producing its flowers on laterals put forth from the buds of the previous year's growth, and, in order to be sure of having the plants in condition to flower, it is necessary to ripen the young wood.



Designs for Crescent and Shield.

Dotted Lines Are Radii for Describing Crescent.

Clerodendrons may be grown from cuttings or seed, but the best results are usually obtained by putting in cuttings any time in the spring when they will root readily either in sand or sand and leaf mould. If each cutting is given a small pot to itself then plunged in a gentle bottom heat there will be but few failures in rooting and less liability of losing any in repotting. When the cutting pots are partially filled with roots the plants should be shifted to a larger size and their after success largely depends on the soil used in potting them. This should consist of two parts fibrous loam, the remaining third charcoal, and ½-inch bones in about equal proportion; the loam should be used in a lumpy state without the vicious process of screening. The potting compost should always be dry, that is, properly dry for potting. Clerodendrons in their growing season require a great deal of water and in order that they may get plenty of it and still have the soil in the pots sweet, careful attention should be given drainage; this applies to all hard wooded plants as well as to clerodendrons. If the young plants are kept growing vigorously throughout the season, repotting them whenever needed, the second season they should flower profusely.

It is absolutely necessary in order to have an abundance of flowers, to ripen the wood of the current year, and to do this, water should be given the plants sparingly in the winter months and the temperature of the house wherein they are kept not much over 50°. In the spring the plants may be started into growth the time to be regulated according to the time when they are wanted to be in full bloom; thus, if wanted in May and June they ought to be started early in February in a temperature of 65° to 80°; again, if wanted to be at their best in July, March will be time enough to start them by an increased temperature. In the spring C. Balfouri should be shortened not pruned in the way necessary for C. fallax and C. paniculatum; these flower better if they are cut back to within a short distance of the old wood. Repot the plants when they have started in growth.

D. M.

Civil Service Examinations.

ASSISTANT CURATOR WANTED.

The United States civil service commission announces an examination on March 30 to secure eligibles from which to make certification to fill a vacancy in the position of assistant curator (male), Division of Plants, National Museum, at $1,200 per annum, and vacancies requiring similar qualifications as they may occur. Applicants for this examination should have a general knowledge of systematic botany, Latin, and preferably also of French or German; general clerical ability, neatness, and accuracy; and experience in collecting, preserving, identifying, classifying, cataloguing, mounting, and labeling plants. College graduates are preferred. Age limit, 20 years or over on the date of the examination.

LABORATORY AID (MALE).

The commission also announces an examination at the same time to secure eligibles from which to make certification to fill a vacancy in the position of laboratory aid in agricultural technology (male), at $50 a month, in the Bureau of Plant Industry, Department of Agriculture, and vacancies requiring similar qualifications as they may occur in that department. Men only will be admitted to this examination. The duties of the appointee to this position will include aiding to secure and report scientific data in connection with various projects, such as cotton standardization, fiber investigations, examination of paper and pulp, the technology of wheat and other grains, and also general laboratory work. The questions in physics will be such as a person who has had a high school education may be able to answer. Age limit, 17 to 25 years on the date of the examination.

Applicants for either position should at once apply either to the United

States Civil Service Commission, Washington, D. C., or to the secretary of the board of examiners at any place mentioned in the list printed thereon, for application form 304. No application will be accepted unless properly executed and filed with the commission at Washington. As examination papers are shipped direct from the commission to the places of examination, it is necessary that applications be received in ample time to arrange for the examination desired at the place indicated by the applicant. The commission will therefore arrange to examine any applicant whose application is received in time to permit the shipment of the necessary papers.

To Be Done Now.

Cannas which are still dormant should be kept a little on the moist side, to sprout slightly; they resent the dry side and should never be sold as dry roots in shops, but if offered for sale should be in flats sprouting in a mixture of light soil with leaf mould or moss.

Gladiolus keep best tied in paper bags of 100 or less, or if on shelves or crates it is well to put newspapers under as well as over them.

Watch for decay in centers or under surface skin of tuberose bulbs; store in a temperature above 55°.

The Late E. V. Hallock.

The following resolutions on the death of President Edward V. Hallock were adopted by the New York Florists' Club at the meeting on March 8, 1909.

Whereas: We, the members of the New York Florists' Club, are overwhelmed with grief at the sudden demise of our friend and president, Edward V. Hallock, who was stricken down on the night of March 2, while apparently in the full possession of his health and faculties and

Whereas: This club has sustained a great loss in the death of its president at the beginning of his term of office when the prospects of a brilliant year seemed most promising. He was an able executive and earnest worker in the club's behalf and exerted his best energies for its upbuilding. Mr. Hallock stood for all that was elevating in horticulture, lending his speech and pen for its advancement. Not the least of his efforts were directed to the introduction of a course of practical horticulture in our public schools. He was a man whose attractive personality appealed to all. Generous, sympathetic, of fine impulses, kind and considerate of the feelings of others, he leaves many friends to mourn him. Therefore be it

Resolved: That these minutes be spread upon the record of the club and a copy be forwarded to his bereaved family, to whom we tender our deepest sympathy.

Signed:

WALTER F. SHERIDAN,
FRANK H. TRAENDLY,
Committee.

Scott Memorial Fund.

At the Niagara Falls convention the undersigned were appointed a committee to receive subscriptions for a memorial to the late William Scott. At that time the committee received a large number of subscriptions and many individuals, florists' clubs, business houses and the trade press interested themselves in the movement, turning over to the committee the sums raised by them, together with the names of the contributors. Consultation with the family of the late Mr. Scott, and with others interested, indicated that possibly the best form that the memorial could take would be a monument to mark the grave in Forest Lawn cemetery, Buffalo, N. Y. It seemed desirable to complete the matter with as little delay as possible, but considerable time was consumed in that the block of granite must needs be quarried specially in Vermont, for the stone selected. The memorial is now in place, however, and the unexpended balance of the fund has been turned over to Mrs. Scott for the maintenance of the plot.

FRED BREITMEYER,
A. GUDE,
JOHN BIRNIE,
HERMAN H. RITTER,
E. F. WINTERSON,
Committee.

OBITUARY.

J. B. O'Neil.

J. B. O'Neil, of Elgin, Ill., son of B. O'Neil of the same place, died at his home on Saturday, March 6. He was

The Late J. B. O'Neil.

only 28 years of age, but in spite of his brief career could number a very large circle of friends in the trade. His first experience was gained working with his father in store and greenhouse, and when only 10 or 12 years old was sent to Chicago to buy stock for his father's place. With the exception of a brief period in 1903 or 1904, which he spent in Des Moines, Ia., he has been employed for the past 10 years by Vaughan's Seed Store, Chicago, both in the store and on the road. A funeral service took place at the residence on Monday morning, at 9:30 o'clock and at the church at 10 o'clock, and was in charge of the Woodmen. Elaborate floral designs were sent by friends both in and out of the trade. Geo. Asmus, J. B. Deamud, C. Cropp, A. Henderson and John Degnan represented the Chicago trade at the funeral.

J. J. Nussbaumer.

J. J. Nussbaumer of San Angelo, Tex., died at his residence on Koberlin street February 28. Mr. Nussbaumer was born in 1860. He moved to San Angelo from Okawville, Ill., in 1895 to regain his health. He was a druggist by trade, but after moving to San Angelo he decided that outdoor work was what he needed and started a greenhouse in East Angelo. The mother, Mrs. Annie M. Nussbaumer, the wife, Mrs. Ella N. Nussbaumer, and son, Morgan, survive. Mr. Nussbaumer had been identified with the growth of San Angelo for 13 years, and he was one of its most highly esteemed citizens.

Joseph Metz.

Joseph Metz, one of the oldest florists of Harlem, died at his home, at 316 East One Hundred and Sixteenth street, February 27, of pneumonia, aged 81 years. He was born in Germany and came to New York 50 years ago, opening a store at One Hundred and Sixteenth street and Third avenue in 1886. He retired a short time ago. A widow and five children survive him.

Meetings Next Week.

Boston, Mass., March 16.—Gardeners' and Florists' Club of Boston, Horticultural Hall.

Boston, Mass., March 20.—Boston Co-operative Flower Market, Music Hall place, spring flower show.

Buffalo, N. Y., March 17-19.—American Rose Society, annual meeting and exhibition.

Detroit, Mich., March 15, 8 p. m.—Detroit Florists' Club, Cowie building. Paper on "Bulb Forcing," by Chas. H. Plum.

Grand Rapids, Mich., March 15.—Grand Rapids Florists' and Gardeners' Club, Board of Trade rooms, Pearl street.

Lake Geneva, Wis., March 20, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Montreal, Que., March 15.—Montreal Gardeners' and Florists' Club, Royal Guardians building, 211 Sherbrooke street.

New Orleans, La., March 18, 8 p. m.—New Orleans Horticultural Society, Kolbs hall, 127 St. Charles avenue.

New Orleans, La., March 14, 2 p. m.—Gardeners' Mutual Protective Association, 118 Exchange alley.

Newport, R. I., March 17.—Newport Horticultural Society.

Pasadena, Calif., March 19, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Philadelphia, Pa., March 16, 8 p. m.—Florists' Club of Philadelphia, Horticultural Hall, Broad street, below Locust.

Providence, R. I., March 15, 8 p. m.—Florists' and Gardeners' Club of Rhode Island, 96 Westminster street.

Salt Lake City, Utah, March 16.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

San Francisco, Calif., March 20.—Pacific Coast Horticultural Society.

Scranton, Pa., March 19, 7:30 p. m.—Scranton Florists' Club, Guernsey building.

Seattle, Wash., March 16.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.

St. Paul, Minn., March 16, 8 p. m.—Minnesota State Florists' Association, 510 Snelling avenue, North.

Toronto, Ont., Can., March 16, 8 p. m.—Toronto Gardeners' and Florists' Association, St. George's hall, Elm street.

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibition, le Jardin des Tuileries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine, France.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

THE AMERICAN FLORIST

1885 TWENTY FOURTH YEAR. 1909

Subscription, United States and Mexico, $1 00 a year; Canada $2 00; Europe and Countries in Postal Union, $2 50 Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

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Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York

ROBT. KIFT, 1725 Chestnut St. Philadelphia, Pa

THE AMERICAN FLORIST,

324 Dearborn St., CHICAGO

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SECRETARY HAMMOND, of the American Rose Society, writes: "The Buffalo people send their best wishes. Tell Chicago and all the other folk to come to the rose exhibition and bring their best."

A JOINT meeting of the tariff committee of the Society of American Florists, American Seed Trade Association and the Nurserymen's Association has been called for March 18, at noon, at the Iroquois hotel, Buffalo, N. Y., in order, if possible, to harmonize the new tariff schedules which are being proposed that these three national associations in horticulture may unite in recommending a uniform schedule to congress.

ROSE SHOW next week.

LESS than a month to Easter—be ready.

TRADE offers, printed on postals, form a very objectionable method of advertising for obvious reasons.

FREIGHT shipments of dormant trees and bulbs without use of refrigerator cars may generally begin with safety after March 15.

A STORM of remarkable severity for the season covered most states east of the Ohio March 4, leaving snow and ice, the effects of which will remain some time.

THE increasing importance of the gardenia, rivaling the orchid and cutting deeply into violet sales, renders the paper on its culture by Wm. Kleinheinz, elsewhere in this issue, of especial interest to cut flower growers.

THE premium list of the third spring flower show of the St. Louis Horticultural Society to be held in the Grand Avenue Masonic temple, St. Louis, Mo., March 24-26 contains a number of good cash prizes, especially for shrubs, table decorations and bulb stock. Otto G. Koenig, 6473 Florissant avenue, St. Louis, is secretary.

American Carnation Society.

CARNATION REGISTERED.

By The Chicago Carnation Co., Joliet, Ill. Conquest—Parentage, Daybreak, Lawson and unknown seedling; color, light pink overlaid with deep rose pink; size of flower, 3 to 3½ inches; habit, like Lawson with a stem as long as Enchantress and very stiff.

ALBERT M. HERR, Sec'y.

Society of American Florists.

MEETING OF THE EXECUTIVE BOARD.

The regular mid-Lent meeting of the executive board is called for Saturday, 8 p. m., March 13, at the Sinton hotel, Cincinnati, O., by order of President Valentine.

WITHDRAWAL OF REGISTRY APPLICATION.

Under date of March 1, 1909, C. G. Roebling, by James Goodier, gardener, withdraws his application of February 5, 1909, for the registration of Cattleya Eureka, stating that he has been informed by Mr. Orpet, of South Lancaster, Mass., that the same hybrid was exhibited by him under the name of Lælio-Cattleya Johannson.

W. N. RUDD, Sec'y.

[The apparent disparity in the name is, of course, accounted for by the fact that the plant frequently known and listed as Cattleya crispa is, correctly, Lælia crispa.—ED.]

MEETING OF TARIFF COMMITTEE.

The legislative and tariff committee of the Society of American Florists met February 24, at 35 Cortlandt street, New York. Benjamin Hammond, Frank R. Pierson, Patrick O'Mara, J. D. Eisele and Patrick Welch were present. E. A. Mosely reported inability to be present on this date. There was a mass of correspondence and Mr. Hammond suggested that F. R. Pierson act as chairman and he would act as secretary. The entire committee settled down to business. The following motion was moved and seconded:

Resolved: That it is the sense of this committee that the Society of American Florists recommend wherever possible that a specific duty upon bulbs and plants be imposed. Carried.

Resolved: That the schedule be by count and not by measure. Carried.

Resolved: That this committee do recommend that the following specific duty be levied on a ratio per 1,000, namely:

Hyacinths	$ 4.00
Tulips	1.50
Narcissi	1.50
Liliums, all kinds	7.50
Lily of the valley, pips	1.50
Lily of the valley, clumps	10.00
Iris, Spanish and English varieties	.60
Iris, all other varieties	10.00
Oxalis	.25
Crocus	.25
Jonquils (Narcissus Jonquilla)	.50
Ixia	.50
Montbretia	.50
Galanthus (snowdrop)	.50
Ranunculus	.50
Chionodoxa	.50
Freesia	.50
Gladioli	1.00
Scillas	.50
Anemones, bulbous sorts	1.00
Begonias	2.00
Gloxinias	2.00
Colchicum	1.50
Astilbe	3.00
Callas	10.00
Dahlias	15.00
Peonies	15.00
Amaryllis	15.00
Arums	5.00
Richardia	5.00
Zephyranthes	.50
Crown Imperials	5.00
Cyclamens	5.00
Muscaria	.50

All bulbs, bulbous roots or corms which are cultivated for flowers or foliage not specially provided for in this act, 50 cents per 1,000. Plants to be taken up at next meeting.

Resolved: That collected orchids be placed on the free list but that orchids established be subject to a duty of 25 per cent ad valorem. The committee proposes to seek a conference with the seedsmen and nurserymen upon all points of mutual interest so as to present the case before the ways and means committee with suitable unity.

BENJAMIN HAMMOND, Sec'y.

Tributes to the Late E. V. Hallock.

W. Atlee Burpee writes: "E. V. Hallock was one of nature's noblemen and loved by all who knew him. Our friendship has been of 30 years' standing and only last November we both remarked that we had not seen enough of each other of late years and must 'get together' at each other's country homes the coming summer. How little did I think then that never again should I see him living, never again enjoy his genial smile nor feel his warm hand clasp. His close friend, J. C. Vaughan, wrote last week as he was coming from Chicago to his funeral and said of his death: 'It leaves a great vacant space around New York for me' and this vacancy will be deeply felt by many other friends who, while not seeing him so frequently, felt always that in E. V. Hallock they had a friend true as steel,—one entirely free from self-seeking and whose very presence was uplifting. As a young man I well remember how free and open he was in giving of his knowledge and how deeply I regretted his selling out his bulb business as there are few men I have ever known with whom it was such a uniform pleasure to have business dealings. His host of friends will miss him keenly, but how terrible is the sorrow that so suddenly darkens the lives of his two daughters."

E. G. Hill, Richmond, Ind., writes: "It was with very deep regret that we heard of the death of our friend, E. V.

Hallock, of Floral Park, N. Y. For fully 30 years we have enjoyed his acquaintance in the trade and have only the very kindest memories of our relations with him. His letters, throughout all these years, have been an inspiration when they came to hand, for he was always in a cheerful frame of mind and fully assured that no matter how dull prospects might be at the moment they would very soon be very much brighter. His many friends will miss his cheery, kindly greetings."

H. G. Berning writes: "Though my acquaintance with Mr. Hallock was not an intimate one, I sincerely regret his untimely death. Our society and horticulture generally has sustained a great loss, and he will be sadly missed in our gatherings."

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—As salesman, designer and decorator; salary considered if position good. Address J. S., care American Florist, 1133 Broadway, New York.

Situation Wanted—In up-to-date flower store, by an experienced man; can furnish best of references. Key 810, care American Florist.

Situation Wanted—By a first-class designer and decorator; 18 years' experience; age 36; best reference given. Address Key 809, care American Florist.

Situation Wanted—By practical gardener and florist; private or commercial; life experience; good reference. Address J. HODGE, 210 N. Tod Ave., Warren, O.

Situation Wanted—In a greenhouse where I can learn the florist trade; young man, 19; Iowa or Illinois preferred. Address Key 792, care American Florist.

Situation Wanted—A young general all-'round greenhouse man wishes position near Chicago; eight years' experience; state wages in first letter. J. HANLON, No. 2056 Gratiot Ave., Detroit, Mich.

Situation Wanted—By all-'round florist and practical landscape gardener; twelve years' experience three years in Europe and nine years in the United States. Address Key 813, care American Florist.

Situation Wanted—As assistant on first-class commercial or private place; single, aged 23; eight years' experience; best of references; near Chicago preferred. Address Key 791, care American Florist.

Situation Wanted—By an all around general greenhouse man as assistant gardener; six years' experience; eastern states or New York preferred; state wages in first letter. RICHARD KRAUS, 15 Allen St., No. Cambridge, Mass.

Situation Wanted—By a young man, 23 years of age; speaks three different languages; 10 years' experience; able to take charge of a small or private place; south or western states preferred; first-class references. Address Key 818, care American Florist.

Situation Wanted—By an intelligent, industrious young married man, aged 28 Hebrew; considerable experience in general greenhouse work; capable of taking care of ten or twelve thousand feet of glass. Please give particulars and wages. Key 819, care American Florist.

Situation Wanted—Head gardener or superintendent for country estate; understands everything connected with such a position greenhouses, lawns, vegetable garden, etc.; salary $1,200 a year and cottage and fuel; married; best references. Key 816, care American Florist.

Situation Wanted—By a young man of good character; wants position as traveling salesman for florists' supply house or bulb house; with some experience; florist by trade; can furnish A1 references; N. Y. or Pa. preferred; ready any time. E. M. DUSINBERRE, Corning, N. Y.

Situation Wanted—As working foreman or grower; thoroughly understands growing roses, carnations, 'mums, bulbs and a general line of pot plants; life experience in all branches of the business; middle age, single; good references given. Address Key 794 care American Florist.

Situation Wanted—By first class man for private place near Chicago; understands the growing of carnations roses chrysanthemums, violets etc; no objection to commercial place; 13 years' experience in first-class places (English). Please state full particulars. Address Key 761, care American Florist.

Situation Wanted—By a single, industrious young man, with 12 years' experience in greenhouses, landscape and decorating; capable of taking charge of a small range of glass, commercial or first-class private place; nationalty American; speaks German and French. R. N. SCHMIDT, 2449 Harrison Ave., Cincinnati, O.

Situation Wanted—As gardener, private preferred; lifetime experience in the management of fruit, flowers and vegetable garden, lawns and drives greenhouses palms, ferns, roses carnations, chrysanthemums violets and plants for bedding, cut flowers, shrubs and hardy perennials, and landscape work; single; please state wages and terms in first letter. W. C. WOOD, Reeston and 16th St., Richmond, Ind.

Help Wanted—A gardener and florist to take charge of a small greenhouse and grounds, also vegetable garden. STATE PUBLIC SCHOOL, Owatonna, Minn.

Help Wanted—Married man for position near Chicago; acquainted with nursery and farm work; state age and wages. Address Key 811, care American Florist.

Help Wanted—An experienced, reliable man, (single preferred) as gardener for an institution; give references and full particulars. Address Key 817, care American Florist.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to WRIGHT'S FLOWER SHOP, 224 W. 4th St., Los Angeles, Calif.

Help Wanted—A good designer and decorator; must be experienced and able to give references from past employers and be sober and industrious. None other need apply. Address Key 795, care American Florist.

Help Wanted—First-class market gardener; one accustomed to growing vegetables in greenhouses and hotbeds. None but first-class man need apply. Address, with references, Key 747, care American Florist.

Help Wanted—A man to act as foreman on truck farm near Terre Haute Ind.; a good position for a good man. Give reference in detail, regarding ability, character, whether married or single. DAVID DICKSON PRODUCE CO., Office: 1107 Commonwealth Bldg., Pittsburg, Pa.

Help Wanted—Reliable, sober all-around man to take entire charge of small greenhouse plant, with knowledge of chrysanthemums, poinsettias and pot plants; position open at once; for further particulars address M. D. REIMERS, 329 4th Avenue, Louisville, Ky.

Help Wanted—Reliable, steady man who understands pot plants; good wages to right party, with or without board; situation in Chicago; state full particulars as to qualifications and experience. Address Key 820, care American Florist.

Help Wanted—Young man to take orders and handle cash in cemetery greenhouse office; must be bright, quick, of good address, and able to furnish unquestionable reference as to honesty. Retail flower store experience is desirable and a knowledge of the growing part of the business will be an advantage; man is wanted for about 3 or 4 months, but there is a possibility of a good permanent place for a man of exceptional worth. W. N. RUDD, Morgan Park, Ill.

Wanted—To buy from 5000 to 10 000 feet of glass in the vicinity of New York, or two or three acres of land with water supply and shipping facilities; with full particulars address, A. S. care American Florist, 1133 Broadway, New York.

Wanted—Name and address of every florist in the United States, employer and employe, who is interested in a Florists' Employment and Information Bureau. Address, enclosing two cent stamp for return postage, and full details will be mailed. Write today, FLORISTS' BUREAU, Wilkes-Barre, Pa.

For Sale or Rent—Greenhouses, 3600 feet glass, new, hot water system, fine condition, in growing city; R. R. center; rare opportunity. Key 814, care American Florist.

For Sale—Greenhouses located at Muncy Penna;: 30,000 feet of glass THE MUNCY BANKING COMPANY, of Muncy, Penna.

For Sale—About 5,000 feet of glass in a good town; no competition; can sell more than you can grow, at good prices. Write for particulars. DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

For Sale—Greenhouse property, 12,000 feet of glass, one large 9 room house, one 6 room house, large barn 6 acres of good land; established 36 years; good business; situated in Mass.; $4,000 cash Key 801, care American Florist.

For Sale—Greenhouses in good condition 3 houses 17x70 a good 10 room house good sized barn 1 acre of the best carnation soil, population 4,000 no competition steam heat city water in city limits a fine chance for some one. Address. A. RICHTER, Sturgis, Mich.

For Sale—Retail florist business; best section of Philadelphia; established for thirty-five years; busy all the year; good transient and order trade; also decorating and funeral trade; very cheap if sold at once; can show exact profits; best reasons for selling. J. T. JACKSON & CO., 13th and Chestnut, Sts., Philadelphia, Pa.

For Sale—Three houses, 100 ft., Moninger; three houses 75 ft., Deitsch, open; three houses, 34 ft., Deitsch, open; 1 house, 36 ft., closed. Eight-room residence adjoining plant; boiler and coal bins in basement. House and plant all piped and heated by steam. Store, 18x20; ice boxes, cash register, counters and other fixtures. Barn, 18x24. This plant is situated on corner lots, 150x150. Planting ground, 75x100. Located in an excellent city on the east coast of Lake Michigan, and plant is centrally located near churches and business district and in residence section. The store combines the plant, adjoining the same. For particulars address Key 790, care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Help Wanted.

WANTED—An A No. 1 florist, capable manager, for first class florist establishment; must be an up-to-date designer and decorator and an all-around man; good prospects to the right man; state experience, reference and salary to

BROOKLYN, N. Y., care American Florist, Chicago.

Situation Wanted.

A NO. 1 FLORIST, capable manager, is open for engagement; 16 years' experience in every branch of the trade; up-to-date designer and decorator; married; strictly sober. Unless you want a first class man, do not reply. Address

Key 805, care American Florist.

Situation Wanted.

As foreman or manager, by an expert grower of roses, carnations, 'mums, violets, fancy and blooming potted plants; also bedding plants, bulbous stock, etc.; can handle help to the best advantage; American, age 32; 17 years' experience; married; strictly temperate.

Key 807, care American Florist.

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,

125-133 W. Superior St. CHICAGO, ILL.

Toronto.

TRADE INCREASING.

Increasing activity in all branches of the business is the decided opinion of the trade generally. Inclement weather was responsible for the growers' small output, but now that we are favored with brighter weather, there are better prospects, especially for roses. Bridesmaid and Bride have responded to the calls of sunshine quicker than the other varieties, though Killarney and Richmond are fast coming in. American Beauty is still scarce, but the growth of the plants promise a good cut soon. Carnations were never better and good blooms are in evidence, the fancies being shown in most stores, though it is very noticeable that Rose Pink Enchantress is going back and less space will be given this variety. Violets which have been off crop most of the season are now in their glory and the single Princess of Wales, for which this section is noted, is in very fine shape. Lilies are plentiful; asparagus is scarce.

THE RETAILERS.

The windows of the different establishments about the city show more than the ordinary display of flowers. Simmons has begun to specialize, and the last few days has shown the table decorations in orchids. Chas. Tidy always shows the very best of stock, and his sweet peas and lily of the valley in hamper arrangements are fine. J. H. Dunlop has an elegant display of flowering plants. His lilacs are about the only ones grown in this vicinity.

A meeting of the agricultural committee of the floral section for the National Exhibition was held the other day for the reconstruction of the prize list. A number of changes, mostly of a technical character, are noticed, the particular aim being to bring in more uniform exhibits and which also include the amateur as well as the professional. A resolution was carried that the different parks and private growers be allowed to compete.

CARNATION EXHIBITION.

The annual carnation exhibition of the Toronto Agricultural Society and Gardeners' and Florists' Association at St. George's hall was probably the most successful among the 13 similar events of the past.

As one entered the hall his gaze was at once arrested by a most lavish and beautiful display of roses, carnations, lily of the valley and violets. On three sides of the room were ranged the flowers, with a fine group of pot plants interspersed. One of the special features of the exhibition was the fine collection of carnations which have never been seen in Canada before, sent by American firms. The gold medal awarded by the Toronto Horticultural Society for the vase of best carnations was won by H. Weber & Sons Co., of Oakland, Md., with Toreador. It is pink with a white stripe, and is particularly large and vigorous. Baur & Smith, of Indianapolis, Ind., sent their new Shasta. It is pure white, and is strongly perfumed. J. D. Cockcroft, of Northport, L. I., sent his Georgia, which is white and very pretty. The Chas. Knopf Floral Co., of Richmond, Ind., was represented by a new light pink variety called Mrs. Charles Knopf. Another specimen of their culture is ruby-colored flower, with rich odor, resembling to some extent the old garden carnation.

The Dale Estate, Brampton, had upon exhibition two immense bunches of roses, which the officers of the society claim have never been surpassed in this city for beauty and excellence. On one hand was seen a brilliant display of Bridesmaid and Bride. This company also sent a grand vase of the new pink carnation, Winsor; one of Enchantress of a light pink color; one of Beacon, a light red; also Princess violets as large as pansies, and lily of the valley. Wm. Lawrence, of Eglington, had a fine assortment of carnations on exhibition, including four well-known varieties. A vase of New York Express mignonette attracted much attention, for each spike of this fragrant flower was upwards of a foot long, and seemed to have reached the limit for size. A. E. Crowhurst, of Mimico, had four vases of carnations. Harlowarden was of exceptional quality. James Morgan, of Hamilton, had a vase of Princess violets, which were particularly fine.

A collection of orchids from T. Manton, of Eglington, commanded attention. It contained a pure white cattleya. Dendrobium Wardianum lent an interest to the group. The Steele-Briggs Seed Co. had a fine display of primulas from its own seed. Wm. Jay & Son had a beautiful display of Boston and lace ferns, and J. H. Dunlop, the president, a collection of white lilacs in bloom, with azaleas and croton foliage, which were much admired. In the evening there was a very fair attendance. A good orchestra rendered popular airs.

H. G. D.

Montreal.

BUSINESS GOOD.

Business during Lent so far shows very little sign of a decrease; in fact, there is a noticeable increase in the sale of pot plants, especially bulbous stock. Good roses are plentiful now and find a ready sale. Carnations and violets more than fill the demand and are very good. Lily of the valley is well liked during March and orchids are handled by almost all the stores in the city. In pot plants besides bulbs, there are azaleas, cyclamens, primulas, rhododendrons, lilacs, and many others to be seen in very good shape. Two snowstorms following each other have delayed spring operations; it will take a long time to thaw the amount of snow and the crust of ice is of considerable thickness caused by the many rains last January. Trees and shrubs have suffered severely by ice forming on the branches and causing breakage to an alarming extent. There will be a lot of planting in trees and shrubs this spring; partly replacing broken ones and partly of planting new grounds as the building operations in the suburbs are very active.

The lecture by Dr. Snell, St. Anne de Bellevue, given before the Gardeners' and Florists' Club March 1, proved to be very instructive to every member present. The subject was "The Chemistry of the Garden." The lecturer dwelt at great length on the subject and thought that horticulture required intelligence of the highest order for the production of crops, for the protection and for the utilization of same. The advisability of holding a chrysanthemum show next fall was discussed but it was held over till next meeting; in the meantime, the growers are advised to prepare for same. A committee was appointed to interview the parks' committee of the city council and recommend that a larger amount be set aside for the keeping of the parks and squares, also to enforce the by-law to keep dogs on the line in the public parks.

LUCK.

CLEVELAND, O.—Lafayette A. Gates, 60, retired florist, died at the Grand hotel, Cincinnati, February 22, shortly after his arrival there. Gates had been suffering from Bright's disease. He was returning from Florida, whither he went a month ago in search of health. Mr. Gates is survived by a widow and one daughter, who live at 3521 Memphis avenue.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000: 10,000, $7.50
Sphagnum Moss, large bales..... .....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs.. 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, BOSTON, MASS.

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,
EVERGREEN, ALA.

SOUTHERN WILD SMILAX

Give me your orders, will save you money.
Write or wire for prices.
Satisfaction Guaranteed.

Harrison & Pinkston,
LOUISVILLE, ALA.

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.
EVERGREEN ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. Smilax, Ferns, Palm Leaves and all kinds of Green Goods.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..
51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75

	Per 100	
Bridesmaid and Bride, fancy	$ 6 00 to	$ 8 00
Good		4 00
Killarney, fancy	6 00 to	8 00
Good		4 00
Chatenay, fancy	$ 6 00 to	$ 8 00
Good		4 00
Mrs. Jardine, fancy	6 00 to	8 00
Good		4 00
Kate Moulton, fancy	6 00 to	8 00
Good		4 00
Richmond, fancy	6 00 to	8 00
Good		4 00
Uncle John, fancy	6 00 to	8 00
Good		4 00
Perle	6 00 to	8 00

ROSES, Our Selection, $5.00 per 100

Carnations,	Per 100	
Fancy		$ 3 00
Good	$ 1 50 to	2 00

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

St. Louis.

PRICES LOW.

The second week of the Lenten season opened up with very little doing. There were quite a few flowers in the market and prices were forced down, especially on carnations. Roses as yet, have not been over plentiful and the prospects are they will not be until after Easter. Violets have become somewhat scarce and are now quoted at $3 per 1,000. Very few American Beauty roses are in and many of these are shapeless and bull headed. Sweet peas, when good, are easily disposed of, the only ones left over being very short stemmed. Ferns are somewhat scarce and are bringing $2 per 1,000. The plantsmen are all busy and getting ready for Easter. A goodly supply of bulbous stock is looked for, also all varieties of flowering plants.

NOTES.

A. F. Longren of Desplaines, Ill., was with us this week. He is very enthusiastic over the new carnation, Lucille. He disposed of quite a few cuttings while here.

Park Commissioner Scanlon has sent a protest against the Historical Society erecting a building within Forest park as against the ordinance.

Henry Ostertag has been nominated by the democrats for the house of delegates for the Twenty-eighth ward.

The meeting of the Florists' Club next Thursday will be a busy one; many important questions have to be answered.

Foster Floral Co. has discontinued the sale of fruit, and now confines itself only to the sale of flowers.

Will Osseck is still very lame and is not able to get down as early as he would wish.

Fred Alves, manager at Geo. Angermueller's, is expected to be married shortly.

Walter Retzer of the St. Louis Seed Co. will sever his connection with this firm.

W. F.

—THE—
J. M. McCullough's Sons Co.

Wholesale Commission Florists.

CONSIGNMENTS SOLICITED.

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Wholesale Flower Markets

St. Louis, Mar. 10.		
Roses, Beauty, long stems	3 00@	4 00
" " medium stems	2 00@	2 50
" " short stems	50@	1 00
" Bride, Bridesmaid		3 00@ 8 00
" Chatenay		5 00@10 00
" Ivory		5 00@ 8 00
" Killarney		4 00@10 00
" Mrs. Potter Palmer		5 00@ 8 00
" Rhea Reid		6 00@10 00
" Richmond		6 00@10 00
" Alice Roosevelt		5 00@ 8 00
Carnations, fancy		1 50@ 2 00
" common		2 00@ 2 50
Freesia		1 50@ 2 00
Hyacinths Romans		1 50@ 2 00
Lily of the Valley		3 00
Violets		15@ 25
Asparagus Sprengeri		1 00@ 2 00
" cut sprays		1 00@ 2 00
Ferns, fancy, per 1000, $2 00		
Smilax		12 50
Cincinnati, Mar. 10.		
Roses, Beauty	$1 00@	$ 6 00
" Bride, Bridesmaid		3 00@ 8 00
" Golden Gate		3 00@ 8 00
" Killarney		4 00@ 8 00
" Richmond		4 00@ 8 00
Carnations		2 00@ 4 00
Callas		10 00
Jonquils		3 00
Lilium Harrisii		12 50
Lily of the Valley		3 00@ 4 00
Tulips		4 00@ 5 00
Violets		1 00
Adiantum		1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c		
Boxwood, per lb. 15c		
Ferns, Eastern, per 1000, $1 50		
Galax, Green and Bronze	1 00	
Smilax	12 50@	15 00
Buffalo, Mar. 10.		
Roses, Beauty, special		6 00
" " fancy		4 00
" " shorter	2 00@	3 00
" Bride, Bridesmaid		4 00@12 00
" Killarney		4 00@12 00
" Richmond		4 00@12 00
Carnations		1 50@ 3 00
Callas		8 00@10 00
Daffodils		2 00@ 3 00
Hyacinths, Roman		2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@	2 00
Lily of the Valley		3 00@ 4 00
Mignonette		2 00@ 4 00
Tulips		2 00@ 3 00
Violets		50@ 75
Asp. Plumosus strings, each	50@	60
Ferns, per 1000		2 00
Galax, per 1000		1 50
Leucothoe Sprays		1 00
Smilax strings	12 50@	15 00
Milwaukee, Mar. 10.		
Roses, Beauty	1 00@	5 00
" Bride, Bridesmaid		4 00@10 00
" Killarney		4 00@12 00
" Liberty, Chatenay		4 00@10 00
" Perle		4 00@ 8 00
" Richmond		4 00@10 00
Carnations		1 50@ 3 00
Daffodills		2 00@ 3 00
Lilium Giganteum		12 50
Lily of the Valley		3 00@ 4 00
Narcissus		2 00@ 3 00
" Trumpets		2 00@ 3 00
Sweet Peas		50@ 75
Tulips		2 00@ 3 00
Violets		50@ 75
Adiantum		1 50
Asparagus, per string		50
" Plumosus, per bunch	25	35
" Sprengeri, "		25
Ferns, Common, per 1000		2 00
Galax, per 1000		1 50
Smilax, per doz.		1 75

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTIN CO. Who esale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,
MILWAUKEE, WIS.

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Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

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Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

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WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

ALBUQUERQUE, N. M.—John Woodward is making considerable additions to his greenhouse plant and is increasing his cultivated acreage from six to 14 acres.

SAN FRANCISCO, CALIF.—A well dressed young man tricked three retailers recently, and tried the same scheme at Wickstrom's Floral Depot, 804 Eddy street, where he was detained until the police arrived and placed him under arrest. He gave his name as Lewis Larsen, 20 years old. He called at the store of Podesta & Baldocchi, 1206 Sutter street, saying he wanted to buy $5 worth of flowers for his father's grave. He gave a check for $16.50 and got $11.50 change. The same trick was played on G. B. Antonini, 2001 Sutter street, and Pelicano, Rossi & Co., 1343 Sutter street. All the checks were worthless. The police say that altogether about 15 checks have been passed by Larsen.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

In saying our special **Killarneys** are the fanciest stock in the country, we are only voicing the opinions of the best flower buyers on the Chicago market and and Eastern growers who have seen them,
$4.00 to $12.00 per 100.

Our **White Lilac** in now of the larger variety—especially fancy stock and the crop is large enough to warrant the special low price we now offer it.
$1.00 per bunch.

Also large supply of all other Seasonable Cut Flowers. Headquarters for both Single and Double Violets.

Carnation Green Fluid Dye, For St. Patrick's Day, 50c per pint; 75c per quart; 10 quarts for $6.00.

Chicago.

MARKET CONTINUES VERY QUIET.

The market continues very quiet with little change from the conditions of a week ago. It is always a matter of remark that trade in the first week of Lent is a little duller than subsequently and so it has proved this year, though with the exception of a little spurt on Saturday and Monday the market has been practically featureless. The weather has been extremely freakish with sudden changes from spring conditions to those of winter and back again but has affected the production of stock little, if any, all growers' establishments rapidly coming into shape for a large Easter output. American Beauty roses continue practically off crop with little to be said for quality in the main. The miscellaneous roses are in large supply with excellent quality obtainable. Carnations are in very heavy supply and it takes considerable effort to move the stock to say nothing of cleaning up at night. The price of white carnations has advanced rather sharply owing to the demand for dyeing purposes for St. Patrick's day.

CHICAGO FLORISTS' CLUB.

A good attendance was out for the regular monthly meeting of the Florists' Club at the Union restaurant the evening of March 4, with President Geo. Asmus in the chair. Several important topics of interest came up for discussion including the matter of the next flower show. No action was taken in regard to this. The resignation of J. H. Pepper as recording secretary on account of intention of shortly removing from this city was presented and accepted. Louis Winterson was elected to fill the vacancy. Chas. E. Morton, of the Redondo Floral Co., Los Angeles, Calif., formerly of this city, was present and told of the organization of a florists' club in Los Angeles, and the interest that is being taken in it. The committee for the good of the club reported suggesting that a card party for a ladies' night be given by the club in the near future. The committee was authorized to forward these plans and to make the necessary arrangements. Allie Zech, who was elected a member at this meeting, was appointed by President Asmus to serve on the sports and pastimes committee.

It was decided that the club send a wreath to the funeral services of the late E. V. Hallock in New York, and a committee consisting of J. H. Pepper, J. C. Vaughan and F. F. Benthey was appointed to draft suitable memorial resolutions.

Ten names were proposed for membership, including G. H. Pieser, Jr., Michael Fink and Max Ringler, all of Kennicott Bros. Co.; Walter Adams, of Ernst Wienhoeber Floral Co.; W. S. Schofield, 184 North State street; Michael Matchen, 414 Summerdale avenue; R. E. Kurowski, of J. C. Moninger Co.; S. W. Baker, of La Grange; Peter Olsem, of Joliet, and John Pell, of Glencoe. Those elected to membership included: Allie Zech, 51 Wabash avenue; Geo. Ambrust, Oak Park; Chas. Zapfl, 753 Thorndale; R. F. Simons, 848 W. Harrison street; F. Merker, 1603 W. Twenty-second street; Chas. Bemish, 45 Wabash avenue; Chas. S. McCauley, Geneva; Emil Maerz, 242 N. Winchester; Paul Kubish, 45 Wabash avenue; F. Ayers, 396 Ontario street; F. Haage, 718 N. Leavitt street; F. Krause, 62 Racine avenue.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
I have a plan for saving you Money. Write me.
21 Wabash Avenue, CHICAGO.

DEATH OF MRS. J. F. KIDWELL.

We regret to have to record the death of Ida M. Kidwell, wife of J. F. Kidwell, on March 9 at her home, 3804 Wentworth avenue. The funeral will take place from the residence Friday at 1 o'clock, interment at Mount Hope. Mr. Kidwell and family have the sincerest sympathy of a large circle of friends in the trade both in this city and in Washington, D. C., where he attained some little prominence as a grower before moving west.

NOTES.

Emil Buettner's Easter lilies are coming along finely and promise an excellent crop of exceptionally fine blooms for Easter. Practically the entire cut of Mr. Buettner's place goes to the A. L. Randall Co.

On Wednesday the condition of Earnest Oechslin was considered so favorable that it was expected that he could be taken from the hospital to his home by Saturday of this week.

The Fleischman Floral Co. is showing some magnificent rhododendrons in its window and a fine lot of bulbous stock. Lenten dullness is an unknown quantity here.

Peter Reinberg is showing a salmon pink seedling carnation of last season's origination. It is of a slightly deeper shade than Enchantress.

Geo. Reinberg is cutting quantities of cattleyas, principally C. Schroederi with some C. Trianæ, also Dendrobium Wardianum.

C. L. Washburn, of Bassett & Washburn, is at West Baden, Ind., recuperating from the effects of a very bad cold.

The bowlers are asked to meet at Bensinger's alleys, 118 Monroe street, Friday evening of next week.

The death of J. B. O'Niel at his home in Elgin on Saturday last, is noted elsewhere in this issue.

O. J. Friedman is to move from 1 Van Buren street to 185 Michigan avenue.

Frank Beu is showing some excellent wallflowers on the Flower Growers' Market.

Visitors: H. P. Scherer, Fort Wing, Ind.; Chas. Morton, Los Angeles, Calif., on his way east; J. W. Lawrence, Toronto, Ont.

PETER REINBERG,
35 Randolph Street, CHICAGO.
Phone Central 2846.

Largest Grower in the world.....

Will Take Best Care of Every Order.

1,800,000 Feet of Glass.

PRICE LIST:

Carnations $1.50 to $2.50 per 100
" white.....per 100 2 50 to 3 00

	Per doz
AMERICAN BEAUTIES	
Extra long stems	$5 00
36-inch stems	4 00
30-inch stems	3 00
24-inch stems	2 50
20-inch stems	2 00
15-inch stems	1 50
12-inch stems	1 00
Short stems	75

	Per 100
RICHMOND and **KILLARNEY**	
Select	8 00 to 10 00
Medium	4 00 to 6 00
GOLDEN GATE	4 00 to 8 00
PERLE	4 00 to 8 00
CHATENAY	4 00 to 8 00
BRIDE and **BRIDESMAID**	4 00 to 8 00
SUNRISE	4 00 to 8 00
UNCLE JOHN	4 00 to 8 00
IVORY	4 00 to 8 00
HARRISII LILIES	12 00 to 15 00
LILY OF THE VALLEY	4 00 to 5 00
VIOLETS	75 to 1 00
ADIANTUM	1 00 to 1 50
ASPARAGUS	50c per bunch
FERNS	$2 00 per 1000

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

WEILAND & RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

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ORCHIDS
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Fancy Stock in **Violets, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

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A letter, telephone or telegram to Deamud will bring you just what you want in Cut Flowers.

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Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

SEND FOR PRICE LIST.
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

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L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

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Wholesale Growers of and Dealers in
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All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
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J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO Mar. 10.

Roses, Beauty, extra select		5 00
" " 36 in		4 00
" " 30 in		3 00
" " 20 to 24 in	2 00@	2 50
" " 15 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select	10 00@	12 00
" " medium	6 00@	8 00
" Chatenay, select		10 00
" " medium	6 00@	8 00
" Golden Gate, Uncle John	4 00@	8 00
" Kate Moulton	4 00@	8 00
" Killarney, select	10 00@	12 00
" " medium	5 00@	8 00
" Mrs. Marshall Field, select	12 00@	15 00
" " " medium	6 00@	10 00
" Perle	5 00@	8 00
" Richmond, extra select	10 00@	12 00
" " medium	5 00@	8 00
Carnations	1 00@	3 00
Callas per doz.	2 00@	2 50
Cattleyas ($9.00 per doz.)	60 00@	75 00
Daisies		50@ 2 00
Gardenias per doz		6 00
Hyacinths, Roman	3 00@	4 00
Lilium Harrisii per doz.	2 00	15 00
Lily of the Valley	3 00@	4 00
Pansies	1 50@	2 00
Stevia	1 00@	2 00
Sweet Peas	75@	1 50
Tulips		3 00
Violets, single	50@	1 00
" double	50@	1 00
Adiantum	75@	1 00
Asparagus Plum, strings each		50
" sprays	2 00@	4 00
" Sprengeri	2 00@	4 00
Boxwood per bunch		35
Ferns, fancy per 1000		2 00
Galax, green per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild per 50-lb. case		5 00

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THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

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Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

New York.

TRADE QUIET.

The inclement weather that visited this city and vicinity March 4-5, cut down the rose supply to some extent. Good roses were scarce on March 6, but the demand not being heavy there was enough to go around. The week, as a whole, was a quiet one in the cut flower business, but considering the great exodus from the city to witness the inaugural and the very bad weather, there seems reason for thankfulness that business was no worse. Lilies, particularly callas, move slowly. The skirmish line of the southern narcissus is already in sight and doubtless in a week or 10 days the hosts will appear. Special American Beauty roses have brought 60 cents each, but there is no great demand for the short grades.

FLORISTS' CLUB MEETING.

The club met in the Grand Opera House building on the night of March 8. Vice President Turner called the meeting to order. Ex-president Weathered moved that regular business be suspended as a token of respect to our late beloved president, Edward V. Hallock. Seconded by Ex-President Traendly and adopted. Patrick O'Mara made a brief address. In an eloquent and sympathetic vein he extolled the high qualities of our late beloved president. He said he had no doubt that every member of the club felt that we have lost one of the best of men in the death of President E. V. Hallock, who had a smile and a kind word for every one. Benjamin Hammond followed, speaking along similar lines. He said President Hallock had been one of the most straightforward men in everything he did and was sincere in all his doings; he always seemed to be master of his business and was beloved by all with whom he had dealings. Wm. Hendrickson said that he owed much of his success to Mr. Hallock, as he was always kind and helpful and had an encouraging smile and word for all. Brief remarks were made by Ex-presidents Traendly and Totty. On motion of Patrick O'Mara, it was voted that all business be adjourned to the April meeting. It was a very sad and quiet night and every member seemed to realize the great loss the club has sustained. There was a fine exhibition of roses but the awarding of certificates was also postponed till the April meeting.

EXHIBITS OF ROSES.

Vase of White Killarney from Waban Rose Conservatories, Natick, Mass.

Vase of White Killarney from F. R. Pierson Co., Tarrytown.

Vase of My Maryland from A. N. Pierson, Inc., Cromwell, Conn.

Vase of My Maryland from Myers & Samtman, Chestnut Hill, Pa.

Vase of Richmond and one of Killarney from Adolph Farenwald, Hillside, Pa.

Vase of Bride and one of Bridesmaid from Henry Hentz, Jr., Madison, N. Y.

Rosa Sinica (Cherokee rose) and South Orange Beauty (Wichuraiana X American Beauty) from W. A. Manda, South Orange, N. J.

Vases of Bride, Bridesmaid and Killarney from W. G. Badgley, Chatham, N. J.

Vase of 25 Bridesmaid from Valentine Hamann, Summit, N. J.

Vase of Kate Moulton and one of Mrs. Jardine from Robt. Simpson, Clifton, N. J.

Vase of American Beauty from Henry Hentz, Jr., Madison, N. J.

Prominent visitors were: Harry A. Barnard, representing Hugh Low & Co., Royal Nurseries, Bush Hill Park, Middlesex, England; Michael Barker, editor AMERICAN FLORIST; Adolph Farenwald, and Wallace R. Pierson.

NOTES.

A large delegation from the Florists' Club attended the funeral of the late President Hallock, at Queens, L. I., March 6. Among those who attended were Ex-President Traendly of the S. A. F., Ex-President Weathered of the club, W. C. Rickards, John Scott, Marshall Duryea, Louis Schmutz, Sr., Henry Weston, Chas. Lenker, F. R. Pierson, Tarrytown, and Wm. J. Stewart, Boston. From Chicago were J. C. Vaughan and wife, Leonard Vaughan and M. Barker. Impressive services were held at the family home. Many fine floral tributes from the horticultural societies and individuals were laid on the last resting place of their departed friend.

Four ex-presidents of the New York Florists' Club attended the funeral of the late President Hallock. They were James Dean, Frank Traendly, John Scott and Chas. B. Weathered.

The second annual ball of the Greek-American Florists' Association was held at the Palm garden, Fifty-eighth street near Lexington avenue, on the night of March 2. The affair was a pronounced success and creditable to the Greek-American Association and the various committees in charge.

August Millang of Twenty-eighth street was married March 4 to Miss Emma Trojan of Elmhurst, L. I. The bride was bookkeeper for the firm of Millang Bros. during its existence and has for the past six years been a bookkeeper in the wholesale district.

Some changes have recently been made in the Growers Cut Flower Co.'s board of officers, whereby Jacob Hauck succeeds J. Vonder Linden as president and J. J. Brozat succeeds Aug. Kramer as treasurer.

Julius Roehrs, Sr., of Rutherford, N. J., has returned from his trip to Cuba and southern waters, much improved in health.

The many friends of Lyman B. Craw, of the Lord & Burnham Co., will regret to learn that he is seriously ill.

Visitors: H. N. Bruns, Ernst Wienhoeber and M. Barker, editor of the AMERICAN FLORIST, Chicago; T. D. Long and wife, Denver, Colo.; Benjamin Hammond, Fishkill-on-Hudson, N. Y.; E. A. Seidewitz, Baltimore, Md.; S. S. Skidelsky, Philadelphia, Pa.; J. D. Eisele, Riverton, N. J.; J. F. Bradshaw, Wallace, N. C.

Cincinnati.

BUSINESS GOOD.

We have had a week of good business. Plenty of work to sell the stock received, of which there was a good supply in practically all lines with the exception of American Beauty roses. Carnations, especially colored, were in over supply all week while there were not nearly enough white for orders. The best grades brought $3 per 100. At closing time each evening there always was a surplus of colored on hand, and these found an outlet the next day by the fakir route, and, of course, the grower will be a little ruffled when the returns are received. Bulbous stock was a glut all week, and it took some hustling to unload. Prices went glimmering. The one redeeming feature was the good call for lily of the valley, callas and Lilium Harrisii, these being sold out clean every day. This may be attributed to the immense amount of funeral work at the present writing. Violets, at the beginning of the week, were slow sellers, but as the week advanced there was a good call, especially for singles. There was an abundance of green goods of all kinds and a good call.

NOTES.

The next regular meeting of the Florists' Society will be held March 13 in the club rooms, Jabez Elliott Flower Market. At this meeting we expect to have President Valentine, Secretary Rudd and the balance of the executive committee of the S. A. F. with us. It is the desire of the officers to have all that possibly can attend this meeting. After the meeting there will be lunch, refreshments and cigars, with Charley Critchell and Billy Gardner doing the elegant. We might also add that the banquet to be tendered the aforesaid by our society will take place at the Sinton hotel on March 15 at 7:30 p. m. If you contemplate attending and have not notified the committee do so at once by sending your name to E. A. Forter, 232 West Fourth street, and he will make provisions for you.

The Blecher Floral Co., which succeeded W. K. Partridge at 148 East Fourth street, and began business in a very auspicious manner, has been forced to seek other quarters and has removed the stock and fixtures to 134 East Fourth street. Mr. Blecher was unwilling to part with the old store, but the landlord wanted to increase the rent, and Mr. Blecher did not feel inclined to work for the landlord, consequently the next best thing to do was to vacate. However, the company will do business wherever located, as Mr. Blecher is an artist and has a nice following of customers.

Ernst Wienhoeber and H. N. Bruns of Chicago were in the city a few hours the past week calling on the president of our society, J. A. Peterson. You can wager that the gentlemen saw a whole lot of our city in the few hours spent here, and undoubtedly left with a good impression of local hospitality.

Miss Adar Kresken, who, since her mother's death, has been down with nervous trouble, is able to sit up, and the doctors' reports are very encouraging, stating that within a week or 10 days the patient will be able to get to the store.

Nearly every retailer of prominence had something for the Alms & Doepke opening, this company having distributed its orders among 10 of the leaders. A very nice custom which is to be commended.

Coulthard & Pogue supplied the carnations for the spring opening of the Fair. Some 15,000 blooms were used.

Bob Ruttle, who has been down with the grip, we are glad to report, is convalescing. S.

Buffalo.

BUSINESS POOR.

March entered like a lamb, but soon changed, consequently we had snow, rain and cold which was not conducive to the sale of stock. Bulb stock is in profusion with a limited call only at reduced prices, while roses and violets are in no demand. The Lenten season has stopped all society functions, and even funeral work has been quiet. The automobile show last week and the sportsmen's show this week called for very pretty windows by the principal retailers.

The regular meeting of the Florists' Club was held on Tuesday evening, when Benjamin Hammond, secretary of the American Rose Society, addressed the club on what the Rose Society proposed to do. He and W. F. Kasting looked over the space at the Iroquois hotel which he thought was well adapted for the meeting, and in every way was pleased with what the committee was doing. After his remarks, the club got down to business of which the most important was the election of officers. It was the most spirited of any ever held by the club, and resulted in almost an entirely new board of officers. The selections were as follows:

Edward Slattery, president.
C. G. Guenther, vice president.
Wallace Eiss, treasurer (re-elected).
Wm. Legg, secretary.
D. B. Long, financial secretary.
Trustees: W. J. Palmer, Chas. Sandiford, L. H. Neubeck.

The newly elected officers are all good hard workers and it is safe to say that the club will have another year of prosperity. It is needless to say that Mr. Slattery will do all in his power to make the club a success, and will be ably assisted by his subordinate officers.

BISON.

The "Hub" Centrally located between the two markets
CHARLES MILLANG,
Wholesale Florist,
444 Sixth Avenue, cor. 27th St., NEW YORK.
Consignments Solicited
Telephone 7062 Madison Square.

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Our Specialty is Everything.

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Are the best product of the best growers for the New York Market.

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All flowers in season. Consignments of first-class stock solicited.

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PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Mar. 10.

	Per 100
Roses, Beauty, special	50 00@60 00
" " fancy	35 00@40 00
" " extra	25 00@30 00
" " No 1	12 00@15 00
" " No. 2	5 00@ 6 00
" " No. 3	2 00
" Bride, Bridesmaid, extra and special	6 00@10 00
" No. 1	3 00@ 5 00
" No. 2	2 00
" Killarney, special	12 00@ 15 00
" extra	6 00@ 8 00
" Richmond	2 00@15 00
Carnations fancy and special	3 00@ 4 00
" common	1 50@ 2 00
Callas, per doz.	75@ 1 00
Cattleyas	40 00@60 00
Daisies	50@ 2 00
Gardenias, per doz.	1 00@ 5 00
Lilac, Cut, per bunch	50@ 1 00
Lilium Longiflorum	6 00@ 8 00
Lily of the Valley	1 50@ 2 50
Mignonette, per doz.	30@ 60
Narcissus (Paper White)	2 00@ 2 50
" (Yellow)	1 00@ 1 50
" (Southern)	20@ 30
Sweet Peas, per doz bunches	1 00@ 1 50
Tulips	1 00@ 1 50
Violets	20@ 40
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.
Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Fresh Flowers

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Telephone 3870-3871 Madison Square.

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HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave. & W. 26th St., New York

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising

V. S. DORVAL, Secretary.

Philadelphia.

WEATHER HINDERS TRADE.

Business the past week was handicapped by the stormy weather; there was a fair amount doing, however, when the Lenten season is considered. Stock of all kinds is plentiful with the exception of American Beauty roses, which are still off crop. All good flowers of the special class appear to sell readily for 75 cents each and it has often taken the entire product of two or three commission houses to make up a dozen. The teas are becoming much more plentiful and prices have fallen 20 per cent from those of a week ago. Some excellent Bridesmaid has been offered recently, the strong bottom shoots developing into canes with enormous buds. Carnations are in good supply and sell readily at $3-$4 per 100. Sweet peas appear a bit off crop; growers say another week will bring in some new stock. Violets are a trifle overstocked; the quality of Princess is extra fine and prices rule low. Lily of the valley is in fair demand, the supply being light at present. Gardenias are more plentiful and cheaper. Orchids (cattleyas) are coming a little more freely but prices rule high. Daffodils and tulips are seen everywhere and are largely used for cheap boxes and by the curbstone merchants. Southern arbutus sells fairly well. Adiantum is always in demand and the old A. cuneatum is preferred by some to A. Croweanum. There never seems to be enough Asparagus plumosus. The local grown, together with the imported southern stock, all goes, and still the cry is for more. A. Sprengeri, when strictly fresh, is all right for decorations and made up work, but A. plumosus is the only kind asked for over the counter.

NOTES.

Robt. Craig reached home from his trip to the Isle of Pines last Wednesday. He reports, as did Mr. Westcott, that he had the time of his life. The tropical atmosphere and growth of the island was a revelation to them. In speaking of the well known palms and other familiar plants that are seen growing outside there with such luxuriance, Mr. Craig says they are not found outside of the lawns or points adjacent to dwellings where they were planted by the occupants. They appear, however, to like the climate and it would seem as if all plants of a similar nature would thrive here. The principal industry is the raising of grape fruits which are produced in quantity and possess a flavor that is said to be far superior to those grown in Florida. Mr. Craig purchased an estate of 170 acres and will plant a large acreage in grape fruit which will grow into profit in five years. Wm. P. Craig and John Groff, Mr. Craig's son-in-law, sail on Saturday to put the place in order for the first planting.

James J. Karins, the genial traveling salesman of the Henry A. Dreer Co., has just returned from a most successful trip to the Pacific coast. Two very fine Rhapis flabelliformis over nine feet in height and which when packed weighed 1,500 pounds each were a part of one of the orders which started on their journey to the far coast this week. Business at Riverton is most satisfactory. The sale of the new crested Nephrolepis Scottii is, Mr. Eisele says, proving a record breaker.

The Pennock window last week was a study in one color. The double cross of red immortelles of the Anti-Tuberculosis society was suspended in the center and flanked on either side with small flowered, dark red azaleas. These were arranged in a bamboo lattice frame work which filled up the entire background. Choice baskets of flowers were displayed on the bottom, the whole making a very beautiful decoration.

W. E. McKissick & Bros. are busy shipping special lots to out-of-town buyers for bargain sales. This is a practice grown up of late with the retailers in which certain lots of surplus stock are offered at a special price which, while low, still leaves them out with a fair profit and increases the use of flowers amongst those who are tempted to buy because of the low figures.

Fox, at the Sign of the Rose, features this week azaleas in one window and in the other Dutch hyacinths. Holland wooden clogs give a home touch to the bulbs which are planted in birch covered tubs with long handles. The azalea pots were all Vervæneana, nicely covered with pink tinted paper; both lots were priced, which is very important from a selling point.

Business in the commission houses is good for the season. The Leo Niessen Co. says it could do more but these people are so insatiable that the volume of trade, no matter how large, instead of satisfying only spurs them on. Extra Killarney and Richmond are the features this week and a special St. Patrick's day solution for carnations cheap enough for everybody.

Wm. K. Harris celebrated the seventy-first anniversary of his birthday, March 10, by an informal dinner at a well-known Broad street resort, the guests including John Westcott, John Burton, Edwin Lonsdale, George Anderson, Dennis Connor, Chas. H. Eimerman, U. G. Rowley and M. Barker.

The Century Flower Shop had as a special for last Saturday gardenias, offering them at 25 cents each. A large sale was the result.

K.

Boston.

STOCK OVER PLENTIFUL.

The effect of the Lenten season has to be endured. Engagements and weddings are rare occurrences this year, the few that have graced the calendar being carried out with unusual simplicity. Funeral work is at present the chief means of consumption and offers an outlet for but a small portion of the varied stock flooding the market. Notwithstanding the increase of all sorts of marketable stock prices have remained about the same; an occasional bargain is found, but the bulk of first class stock demands good figures. Bulb stock is shown no consideration and vast quantities are dumped out at first bids without hesitation. American Beauty roses are still at a premium and have been dropped from the list. Efforts have been made to realize from other markets but without success. Killarney is without a peer, and Richmond is also in good standing.

NOTES.

The details of planning the exhibition to be held at the Music Hall Market March 20, are rapidly being completed. The enthusiasm shown by all of the stockholders has greatly encouraged the members of the committee in charge, who are sparing no time or efforts to successfully stage the show. A full list of entries, wherein will be shown a complete collection of the products of commercial growers, insures deep interest and keen competition for the numerous prizes offered.

James F. Quinn of Brookline, during the past week, was nominated for the office of selectman. Mr. Quinn is among the best known men of this town and his popularity was well attested by the vote, he receiving more than any other candidate and is practically assured of election.

Visitors: Paul Berkowitz and A. Zeikman, Philadelphia, Pa.; Albert Pochelon and Walter G. Taepke, Detroit, Mich.

B.

Boston Spring Flower Show.

SCHEDULE OF PRIZES.

The following are the principal prizes offered at the spring flower show to be held under the auspices of the Boston Co-operative Flower Market March 20. The show is to be held in Music Hall Place and John McFarland, North Easton, Mass., is secretary:

ROSES.

Killarney, 25 flowers, first (Braman & Dow), cut glass, value, $10; second, $5.
Richmond, 25 flowers, first (Julius Zinn), cup, value $25; second, $5.
Bride, 25 flowers, first, $5; second, $3.
Bridesmaid, 25 flowers, first, $5; second, $3.
American Beauty, 50 flowers, special prize, salesman's cup, value, $25.
Killarney, 50 flowers (W. W. Rawson & Co.), cut glass, value, $20.
Richmond, 50 flowers, special prize (Boston Plate & Window Glass Co.), cup, value $25.
Bride, 50 flowers, $8.
Bridesmaid, 50 flowers, $8.
Best new rose of 1909, 50 flowers (Schlegel & Fottler), first, cup, value, $25; second, $10.
Note.—Exhibitors competing in Classes A and B must do so from places not exceeding 35,000 feet of glass. Classes C, D, E, F and G are open to all.

CARNATIONS.

White, 50 flowers, $5, $3.
Scarlet, 50 flowers, $5, $3.
Light pink, 50 flowers, $5, $3.
Dark pink, 50 flowers, $5, $3.
Crimson, 50 flowers, $5, $3.
Variegated, 50 flowers, $5, $3.
Seedling, not disseminated, 100 flowers (T. J. Grey & Co.), $25.
Seedling, white, red, dark pink, light pink, scarlet, variegated (separate classes), not disseminated, 50 flowers, $5.
Vase of 100, any color (Joseph Breck & Sons), special prize, $15.
Vase of 100 mixed, limited to six varieties (A. T. Stearn's Lumber Co.), cut glass, value, $25.

VIOLETS.

Bunch of 100 blooms of Lady Hume Campbell, $2, $1.
Bunch of 100 blooms of Marie Louise, $2, $1.
Bunch of 100 blooms of any other double variety, $2, $1.
Bunch of 100 blooms of Princess of Wales, $2, $1.
Collection of violets, display of not less than five varieties (H. E. Fiske Seed Co.), cup, value, $15.

SWEET PEAS.

White, 100 flowers, $2, $1.
Pink, 100 flowers, $2, $1.
Purple or lavender, 100 flowers, $2, $1.
Any other color, 100 flowers, $2, $1.

MISCELLANEOUS.

Group of commercial foliage and flowering plants. Not to cover more than 60 square feet of space (A. H. Hews), $25.
Best arranged floral basket, $10.
Best arranged center piece for table, of cut flowers (H. Robinson & Co.), cut glass vase, $15.
Best shower bouquet for bride, to be made of lily of the valley and green, $10.
Lily of the valley, 100 spikes, $4.

Spring Flower Show

TO BE HELD UNDER THE AUSPICES OF THE

Boston Co-operative Flower Market

Send for premium list. All are invited to co-operate.
To be held **March 20th,** in New England's leading market

MUSIC HALL PLACE, BOSTON, MASS.

All information promptly given by addressing

JOHN McFARLAND, Secy., North Easton, Mass.

Daffodils, Single and Dbl. $2.00-$4.00 per 100
Tulips, Single and Dbl. $3.00-$4.00 per 100
Valley. $2.00-$4.00 per 100

The Leo Niessen Co.
Wholesale Florists, 1209 Arch St., Philadelphia, Pa.

Freesia, pure white $3.00 per 100
Lilac, white 50c per bunch
Callas $1.50 per dozen

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. Boston, Mass.

Asparagus Plumosus Nanus.
Extra large heavy Strings, 50 cents each.
W. H. Elliott, Brighton, Mass.

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The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

J. B. Murdoch & Co.
714 Penn Avenue,
PITTSBURG, PA.
All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.
W. E. McKissick & Bros.
WHOLESALE FLORISTS.
Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.
ABSOLUTELY THE BEST POSSIBLE SERVICE.

FANCY Roses FANCY Violets
Orchids, Gardenias.
McCALLUM CO., Inc. Pittsburg

Washington.

NO LENTEN QUIETNESS HERE.

The Lenten quiet has not been very noticeable, and will hardly be so until normal conditions return. The visitors as well as the new officials, are being given a round of entertainment, and hospitalities of one kind or other for which the winter season was not long enough are on the programme for the next two or three weeks, hence the retailers are all rushed and working early and late, to keep up with the various functions.

The regular monthly meeting of the Florists' Club took place at Eagles hall on the evening of March 2. The election of officers was the main business of the evening, and resulted as follows:

F. H. Kramer, president.
John Robertson, vice president.
Wm. Gude, treasurer.
O. A. C. Oehmeler, secretary.

Geo. H. Cooke and Theo. Diederich, directors for three years.

John Bollinger of Bethesda, Md., was admitted to membership of the club.

On the evening of March 3 it started to rain and blow, and by daylight of March 4 there were at least six inches of snow covering the ground, and a gale from the west that at times mounted to the velocity of 20 miles an hour. Readers will have noted by their local press the havoc wrought to telephone and telegraph wires and the gay decorations that lined Pennsylvania avenue on Tuesday night were soaked, beaten out by the wind and borne to the ground by the weight of the snow. On the whole, it began to look as if all the inaugural exercises would have to be postponed. However, while poles and decorations were falling down, the court of honor in front of the White House, where it had been planned to have President Taft review the parade, stood the terrific storm intact. As the day progressed the storm quieted down, the sun began to shine, and the national programme was carried out without further delay.

The sale of flowers for those who attended the inaugural ball was not as great as in former years, but business increased about 50 per cent and flowers which were not used were easily disposed of the following day. Everyone who saw the decorations at the inaugural ball room claimed them to be the most magnificent in the history of such affairs.

NOTES.

Geo. C. Shaffer showed a very appropriate and patriotic window setting for the inauguration. The feature of the window was a wax figure dressed to represent Columbia, an eagle carrying a sash, inscribed with the words E Pluribus Unum, and the picture of Taft on one side, and Sherman on the other. The pictures were placed in an oval shaped frame of leucothœ, Roman style.

Z. D. Blackistone showed an oil painting of the president and vice-president set in a bank of azaleas and maidenhair fern, with the national colors as a background.

Marche & Co. displayed silk banners artistically arranged, and vases of American Beauty roses and orchids.

The opening of the wholesale house makes it very convenient for local retailers to secure good stock. G. S.

Wholesale Flower Markets

	Per 100
PHILADELPHIA, Mar. 10	
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	40@ 50
Lilac per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00
PITTSBURG, Mar. 10.	**Per 100**
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	3 00@10 00
" Chatenay	3 00@10 00
" Killarney	3 00@10 00
" Richmond	3 00@10 00
Carnations	1 50@ 2 50
Cattleyas	75 00
Daffodils	2 00@ 2 50
Freesias	3 00
Lilium Longiflorum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Sweet Peas	50
Violets, single	50
" double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00
BOSTON, Mar. 10.	**Per 100**
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties
The finest in this Market.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

WATERTOWN, N. Y.—Bennett & Son have leased a store in the new Guilfoyle block and intend to occupy same at once.

OMAHA, NEB.—We deeply regret to announce the death on March 1 of Harry J. Hess, the 12-year-old son of J. J. Hess, of diphtheria. Our sympathies are with the bereaved parents. P. B. Floth was very low at the last hearing and also the daughter of L. Henderson. We hope to have better news of these ere long.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

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WITH HIGHEST GRADE ARTISTIC WORK
Dillemuth FLORIST
Can be relied on to fill all mail, telegraph or cable orders.
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Only the Best
Dunlop's
Canada's Best Known and Most Reliable Florist.
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We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

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3 and 5 Greene Ave. and 339 to 347 Greene Ave.
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Best Quality on Shortest Notice
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Order by mail, telephone, telegraph or cable. Cable address: "Daniels, Denver."

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Prompt and Careful Attention given to all Mail and Telegraph orders.

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Established in 1857.

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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

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JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

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The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

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Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

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GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

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.....241 Massachusetts Ave.

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Write, Wire or Phone Your Orders to
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Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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Nashville, Tenn.

Joy Floral Co.
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Mar. 17, Mauretania, New York-Liverpool.
Mar. 17, Oceanic, New York-Southampton.
Mar. 17, Adriatic, Southampton-New York.
Mar. 17, Breslau, Baltimore-Bremen.
Mar. 18, Laurentian, Boston-Glasgow.
Mar. 19, Virginian, St. John-Liverpool.
Mar. 19, Marquette, Philadelphia-Antwerp.
Mar. 20, Numidian, Glasgow-Boston.
Mar. 20, Columbia, New York-Glasgow.
Mar. 20, Caledonia, Glasgow-New York.
Mar. 20, St. Paul, New York-Southampton.
Mar. 20, St. Louis, Southampton-New York.
Mar. 20, Lusitania, Liverpool-New York.
Mar. 20, Samland, New York-Antwerp.
Mar. 20, Vaderland, Antwerp-New York.
Mar. 20, K. Augusta Victoria, N. Y.-Hamburg.
Mar. 20, Amerika, Hamburg-New York.
Mar. 20, Potsdam, Rotterdam-New York.
Mar. 20, Yorck, Bremen-New York.

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571 Fifth Ave, Windsor Arcade,
NEW YORK CITY.

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THE LEADING FLORISTS OF THE NORTHWEST
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Order your flowers for delivery in this section from the
Leading Florists of the Northwest

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Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

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Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

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C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

Kansas City, Mo.

Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

AUBURN, N. J.—William England's seedhouse was burned to the ground March 4.

THE Wyoming Seed Co. will erect a large warehouse and store near Cheyenne in the spring.

CHICAGO.—Wholesale onion set growers say their warehouses should be well emptied by the last of March.

VALENTINE BEANS and several other kinds are proving very scarce as the southern planting time arrives.

ROCKY FORD, COLO.—The Ebbert Seed Co. has been incorporated with capital stock $25,000. A. W. Cowager, H. Van Buskirk and R. S. Beall are the incorporators.

AMONG those who attended the funeral of the late E. V. Hallock, at Queens, N. Y., March 6, were W. Atlee Burpee, Philadelphia, Pa.; J. C. Vaughan and wife and Leonard H. Vaughan, Chicago; M. H. Duryea and W. C. Rickards, New York; and H. M. Wall, Brooklyn, N. Y.

GARDENA, CALIF.—John Bodger & Sons write: "Everything looks fairly promising to us, excepting in some places where the water laid a little long in the lowlands at the time of the heavy floods in January. We have been delayed quite a little in our planting and have had to replant in some places but, on the whole, the prospects are better than they were last season."

Jubilee Flower Show, Haarlem, 1910.

The complete schedule has now been published. It is a volume of 80 pages in the Dutch language, because the competition is only open to Dutch exhibitors. It is expected that many special prizes of honor will be given by patrons, societies, etc. The premiums offered in the schedule are 75 gold medals and about 2,500 other prizes. The judges will be chosen among the horticulturists of all nations. The permanent show in the open (from March 23 till May 16) according to the schedule, will consist of 200 classes for beds and groups of hyacinths, tulips, narcissi, crocuses and other bulbous plants; herbaceous perennials, rockeries, conifers, aucubas, azaleas and rhododendrons, buxus, ilex, prunus and other shrubs.

The first special show (March 23-31) contains 275 classes, principally for hyacinths, tulips, narcissi, crocuses, amaryllis and other bulbous plants in pots. A special feature will be the class for bulbs and plants, retarded in ice, and there are also very important classes for Azalea mollis and rhododendrons, roses, lilacs and other forced shrubs, stove and greenhouse plants and cut flowers.

The second special show (April 15-24) will have 300 classes of the same general character as those of the first show, but the third special show (May 4-12) will not afford an opportunity for showing hyacinths, but will probably have the character of a special show of orchids and decorative floral art. The regular meetings of the committee judging new bulbous plants will also be held in the show buildings every week.

The permanent exhibition in the open will doubtless be of the highest interest to foreign visitors and although the artistic and suitable arrangement of bulbous stock is a rather difficult task, there is every chance of obtaining good results, because already four local exhibitions of the same nature have been organized before in the bulb district. The Noorduijk section of the Bulb Growers' Society has done so twice already; the Sassenheim section quite recently, and the Hillegom section is this season preparing a local show, which may be considered as a valuable trial for the large jubilee show, to be held next year.

Damages for Untrue Seed.

A jury in Judge Brennan's court, Des Moines, Ia., awarded $471 damages against E. J. Hohberger February 25 because he sold Geo. T. Schlenker seed of yellow tomatoes when the latter ordered seed of Large Red. Schlenker sued for $1,700. He claimed he planted an 8-acre field of plants from seeds purchased from Hohberger, believing they were of the red variety. He did not discover the error, he said, until the plants grew and the yellow fruit made its appearance. He asserted there was no market for the yellow tomatoes and that he lost the profits from the 8-acre tract.

Pineapple Seed For Michigan.

The distribution of garden seeds by congressmen at government expense, is a custom that has outlived its usefulness, remarks the Manistique Pioneer-Tribune. The average householder has sufficient money to purchase his own vegetable seed, and he prefers to purchase them from a reputable seed firm rather than run the chances of losing a year's crop by experimenting with the ofttimes worthless seeds donated by the government. When a person in this latitude receives cantaloupe and pineapple seeds, he is doubly certain that the money is wasted.

J. E. HOOPES & CO.'S ESTABLISHMENT, MUSCATINE, IA.
Picking Sweet Potatoes From Vines. See Issue of February 20,

Imports.

During the week ending March 6, imports were received at New York as follows:

McHutchison & Co., 170 cases, 25 pkgs. plants.

Vaughan's Seed Store, 36 cases trees, two cases bulbs.

P. Ouwerkerk, 44 cases trees.

Frank H. Darrow, 42 cases plants, eight cases trees, 20 pkgs. seed, 133 cases lily of the valley pips.

Wm. Elliott & Sons, 13 pkgs. trees, 11 cases trees and shrubs, eight cases plants.

O. V. Zangen, six cases bulbs.

A. T. Boddington, two cases bulbs.

P. Henderson & Co., one case bulbs.

To others, 294 cases trees and shrubs, 202 pkgs., 138 cases plants, 15 cases bulbs, 1,100 bls. seed, three bags seed, 358 bags sunflower seed, 200 bags clover seed, 95 bags poppy seed.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

Catalogues Received.

The W. W. Barnard Co., Chicago, seeds, bulbs and plants; Winterson's Seed Store, Chicago, seeds; Manitowoc Seed Co., Manitowoc, Wis., seeds; Diggs & Beadle, Richmond, Va., seeds; A. E. McKenzie Co., Ltd., Brandon, Man., seeds; Gate City Seed Co., Keokuk, Wis., vegetable seeds; Metairie Ridge Nursery Co., New Orleans, La., new roses, nursery stock, etc.; Ellwanger & Barry, Rochester, N. Y., nursery stock, hardy plants, etc.; Rockmont Nursery, Boulder, Colo., nursery stock; The Elm City Nursery Co., New Haven, Conn., nursery stock; F. & F. Nurseries, Springfield, N. J., nursery stock; Leesley Bros. Nurseries, Chicago, nursery stock; Wagner Park Conservatories, Sidney, O., plants, nursery stock, etc.; The Wm. H. Moon Co., Morrisville, Pa., hardy trees and plants; David Herbert & Son, Atco, N. J., dahlias; Harlan P. Kelsey, Salem, Mass., hardy rhododendrons; W. F. Schmeiske, Binghamton, N. Y., hardy phlox; W. Atlee Burpee & Co., Philadelphia, Pa., vegetable seeds; Fairbanks, Morse & Co., Chicago, spraying outfits; Geo. S. Josselyn, Fredonia, N. Y., grape vines, small fruit plants, etc.; Schlegel & Fottler Co., Boston, Mass., seeds, implements, etc.; J. K. Alexander, E. Bridgewater, Mass.

Sutton & Sons, Reading, Eng., seeds, bulbs, etc.; James Carter & Co., London, Eng., seeds; Van Zanten & Co., Hillegom, Holland, bulbs; Wilhelm Pfitzer, Stuttgart, Germany, seeds and plants; Nonne & Hoepker, Ahrensburg, Germany, seeds, dahlias, etc.; Kallen & Lunnemann, Boskoop, Holland, nursery stock, plants, etc.; Ottolander & Hooftman, Boskoop, Holland, nursery stock; Vilmorin-Andrieux & Co., Paris, France, chrysanthemums; Arthur De Meyer, Ghent, Belgium (McHutchison & Co., 17 Murray street, New York, agents), nursery stock.

They Make Good Soup.

It has remained for a "back-of-the-yards" constituent of Congressman James T. McDermott of the Fourth district, Chicago, to find the most original use for the seeds which congressmen distribute by the grace of the Department of Agriculture. The stock yards representative made up a list of all the voters in his district who have yards and lots large enough for home gardens and sent each a consignment of seeds for spring planting. Recently McDermott received a letter from one of the lucky ones containing thanks and the following request for more seeds: "Please send some more of them seeds. They make good soup."

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

THE CREGO ASTER
"The Best in the Market."
S. F. Schelley, Brantford, Ont., writes: "I had some of your Pink Asters seven inches in diameter. At the Horticultural Exhibition I easily took first prize with a mixed bunch of 18 blooms."
Trade packet, $1.00; half ounce, $4.50; ounce, $8.00.
G. S. CREGO, 693 E. 10th St., Portland, Ore.

Skidelsky & Irwin Co.
SEEDS, BULBS AND PLANTS.
144 N. 7th St., PHILADELPHIA
KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

The Everett B Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors........................⅛-oz. 60c; oz. $4.00
Pure white........................⅛-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Landreths' Seeds
BLOOMSDALE FARMS
BRISTOL, :: PENNA.
If you want Seeds for filling in, name varieties and quantities.

Seed Beans
F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

Vaughan's Seeds

ALYSSUM
Vaughan's Little Gem, extra fine strain.............lb., $3.50; Trade pkt., 10c; oz., 35c

ASPARAGUS PLUMOSUS NANUS
We handle this Asparagus both in seeds and plants of all sizes, in very large quantities. 100 seeds, 50c; 1000 seeds, $3.50; 5,000 to 10,000 at $3.25 per 1000 seeds

BEGONIAS — Trade pkt.
Berna. Flowers are of very bright, carmine red; they are produced all summer and in great abundance.................$ .15
Salmon Queen, new .... .25
Semperflorens Red Lubecca. Fine for bedding.............................. .25

LOBELIA
Bedding Queen. This is undoubtedly the best of the dwarf Lobelias The best Lobelia for carpet beds, borders and pots ....Trade pkt., 15c; ⅛ oz., 25c; oz., $1.50

	Trade pkt.	Oz.
Speciosa, dark flowers and foliage, true	$ .10	$ .55
Hambrugin, new, for hanging baskets	.25	
MAURANDYA, mixed...¼ oz., 25c	.10	1.00

"VAUGHAN'S BEST" MIXTURE of Large-Flowering PETUNIAS
This mixture is made up by ourselves and includes all the best sorts and colors of the Large-Flowering and Fringed sorts. Trade pkt. (1000 seeds), 50c; 3 pkts. for $1.25

	Trade pkt.	Oz.
Howard's Star	$ .10	$ .80
Snowball.......⅛ oz., 25c	.10	
SALVIA Splendens, Clara Bedman or Bonfire	.25	2.50
SALVIA Zurich........¼-oz., $1.25	.25	
SMILAX, new crop....... lb., $3 00	.10	.25
STO KS, "Prince Bismarck," new giant double white	.25	
THUNBERGIA, mixed	.10	.40

VERBENAS

	Trade pkt.	Oz.
Defiance, brilliant scarlet true	$ .10	$ .80
Firefly, new, brilliant scarlet, white eye	.15	1.20
Mammoth, mixed	.10	.80
White, extra choice	.15	1.00
Rose and Carmine shades	.25	2.00
Purple	.25	2.00
Mayflower, beautiful pink	.15	1.00
Extra Choice Mixed, Venosa	.05	.20
Lemon (Citriodora)	.20	1.25

"Vaughan's Best" Mixture of Verbenas. This is unquestionably the best strain of Verbena seed in existence. Trade pkt., 25c; ¼ oz., 50c; oz., $2.00; 2 ozs., $3.50.

VAUGHAN'S SEED STORE,
CHICAGO: 84-86 Randolph St. NEW YORK: 14 Barclay St.
Greenhouses, Trial Grounds and Nurseries, Western Springs, Ill.
Book for Florists, Spring Edition, Now Ready

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

O. V. ZANGEN, Hoboken, N. J.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

Varieties of Cucumbers.

The beginner is sure to ask: What variety shall I plant? while the experienced man is sometimes led astray by glowing descriptions of new kinds to change his planting, or a great part of it. We have choice between three types, namely, the English, the American and their hybrids. The English type is a long cylindrical fruit, almost seedless, of fine quality, but unpopular in most American markets. It is too large a fruit and hence too expensive to meet the average wants. It is the great standby in Europe. Among its desirable features is an inclination to set fruit without pollination.

In the American type we have the White Spine as the best of its class. Most successful growers use this, and very many have a private selection of their own, which they guard jealously, so much so, that such seed is not in the market. They realize fully the advantage they have in a productive, uniform variety. The fact is that, under glass, one must make each and every foot of space produce the utmost, which is only possible by using perfected seed-stocks. Our markets demand a cucumber of medium length, good even color, and great uniformity. Every grower should endeavor to produce his own seed if he cannot buy satisfactorily.

In the hybrid class, Davis' Perfect is the best known today. It is a rank grower, longer than White Spine, but not as productive, nor as uniform, and probably slower to come into bearing. It is too long for some markets and, lacking uniformity, does not bring the highest returns. It may produce one of our best forcing strains by further selection. European growers prefer seed of several season's age, to fresh seed, of all cucumbers, claiming the old seed produces less vine and more fruit. Cucumber seeds are good for many years, hence one need run no risk whatever; he can try his stock one year and if good, plant heavily the next.

MARKETMAN.

Green Fly in Lettuce.

ED. AMERICAN FLORIST:—

Enclosed please find a leaf of lettuce, which has some kind of lice or bug on it. Please notice a little fly too, which is with it. It also attacks Asparagus Sprengeri and ferns. How can I get rid of it? Would hydrocyanic acid gas affect coleuses, moon vines, tomatoes, cabbage or other vegetable plants if used when they are dry at about ½ ounce to 1,000 cubic feet? Would it not be better to use it in the day time? L. D. P.

The insects on the lettuce leaves sent are green fly or aphides and tobacco in some form is the remedy for them. Lettuce, owing to its curly, crinkly leaves, offers so many retreats to the insects, that they are not easily reached. While tobacco dust is very desirable for any insects in the crown of a plant, it will not reach the under side, nor will a spray, hence the great popularity of smoking. Here is where the newer forms of tobacco—such as Nikoteen and Nicoticide, are a little lame. They are too expensive for the vegetable grower. In order to reach the last bug, a smoke must be mild but continuous, until the remotest bit of air is thoroughly poisoned. A quick, hot burning of tobacco is almost useless. It will hurt the crop before it reaches the pest.

The best method we have yet seen is to dry tobacco stems and cut in a feed cutter; then provide a 7-inch common stove pipe with bottom screen and handle and use these as smokers. Place some live coal in the bottom and pack full of the cut tobacco. Stand in the walks or suspend from roof. For a 20-foot house use one pipe every 50 feet at least, and as soon as one charge is burnt, replenish, and keep this up all night. If necessary, continue on cloudy days, all day, until the last fly is dead. Repeat this once a week. However, the remedy must go hand in hand with prevention. Be sure to give plenty of water at the root and keep the temperature down. Where soil is allowed to dry out and temperatures run high, green fly will breed on lettuce almost faster than they can be destroyed, while well grown lettuce is almost immune. MARKETMAN.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points March 6 were as follows: New York, cucumbers, 75 cents to $2.25 per dozen; lettuce, $1.25 to $1.50 per strap; mushrooms, 20 cents to 50 cents per pound; mint, 40 cents to 50 cents per dozen bunches; radishes, $2 to $3.50 per 100 bunches; rhubarb, 30 cents to 60 cents per dozen bunches; tomatoes, 15 cents to 35 cents per pound. Cincinnati, cucumbers, $2 to $2.25 per dozen; mushrooms, 40 to 45 cents per pound. Boston, cucumbers, $12 to $15 per box. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $3.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 15 to 25 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents; French endives, 25 to 40 cents per pound.

Huntington, N. Y.

The fifth annual carnation exhibition of the Horticultural and Agricultural Society took place on March 5. Owing to bad weather the exhibition was small. Carnation Bay State attracted much attention and received first prize in its class. This was exhibited by A. Roper, Tewksbury, Mass. They were splendid flowers on magnificent stems. White Bros., Gosport, N. Y., were awarded first for light pink with Winsor and first for 25 Beacon. H. T. and A. H. Funnell won first for 25 white with White Enchantress and the Huntington Nursery Co., first for 25 assorted. August Heckscher (A. Alins, gardener), won first for roses, both classes, for violets single and double, for mignonette, flowering plant, foliage plant, bulbous flowers and greenhouse vegetables. H. L. Pratt, Glen Cove, N. Y. (H. Gant, gardener), won first for freesias and sweet peas. A. H. F.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums, **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

For Transplanting. 1000

Cabbage, Wakefield and Succession.....$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100: 3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain .....40c per 100 3 00
Chinese Giant and Cayenne...50c per 100
Tomato, Earliana, Chalk's Jewell, and Early June Pink.....30c per 100 2 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 39 Illustrations.

Price $1.00.

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Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

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VAUGHAN'S 1909 VEST POCKET CALENDAR FOR GARDENERS.

Full of useful suggestions and reminders for every month in the year.

Every man about the place should have a copy in his pocket.

Price 25 cents, postpaid.

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THE STRAWBERRY BLIGHT

Its Cause and Cure.

How to more than double the yield of crop without increasing the cost of production. A great discovery. Price of book $2.00: worth $25.00.

WM. C. TRIMBLE, Princeton, Ill.

Tuberose Bulbs

No. 1, 1 Size

1000 lots and up at bottom prices.

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VAN ZANTEN BROTHERS

Royal Netherlands Bulb Nurseries and Export Trade.

HILLEGOM, HOLLAND.

Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA, care of Messrs. Maitus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

FLOWER SEEDS.

	Pkt.
Begonia Dichroa, Ruby	$ .50
Stocks, Cut and Come Again, asst	.50
" Early Brompton or Nice, asst	.50
Salvia, Bonfire, Farinacea	.25
" Triumph, Zurich	.50
Petunia, large flowering, fringed and stained	.50
" Howard's Star, Inimitable	.25
Lobelia, Lugdenensis, Hamburgia	.25
" Barnard's Perpetual, White Lady	.25
Myosotis, Stricta, 3 colors	.20
" Robusta Grandiflora, 2 colors	.20
Poppy, Alpine, fine for pots	.15

All other standard varieties in fresh stocks. Catalogue on application.

Fresh Tobacco Stems, $1.50 per 300 lbs.

W. C. BECKERT, North Side, **Pittsburg, Pa.**

Paris Daisy, Giant white, yellow, 2-in. 2c. **Geraniums,** single and dbl. Grant, Buchner, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c. **Vinca Alba, Cuphea, Swainsona, Dbl. Alyssum, Abutilons, Alternanthera, Coleus, Feverfew** (Gem), 2-in., 2c. **Asters,** Earliest, 40c per 100. **Stocks,** Princess Alice, 40c per 100.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, yellow; **Swainsona,** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c, $8.00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5.00 per 1000; **Artillery Plant, Hardy Pinks,** 75c; **Flowering Begonias,** $1.25; **Fuchsias,** 8 kinds, $1.00; **Salvia,** Splendens, Bonfire, 90c per 100; **Parlor Ivy,** 75c; **Stevia,** 75c; **Verbenas,** 60c. Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Warnaar & Co.

Wholesale Bulb Growers, SASSENHEIM, HOLLAND.

SPECIALTIES:

Hyacinths, Tulips, Narcissus, Peonies, Spireas and Dahlias

Large stocks of the popular **Daffodils,** Von Sion and Golden Spur.
Best strain of the new pink **Spireas,** Queen Alexandra and Peach Blossom, and the new whites, Gladstone, Queen of Holland and Blondine.
Over 100 standard varieties of **Peonies** in cultivation.
Offer for the first time their new dwarf **Mignon Dahlias,** a gem for bedding: height, 14-16 inches.
Grow the best novelties in **Peony Dahlias.**

Please apply for a personal call or descriptive catalogue, until May 1st, to

WARNAAR & CO.

care J. W. HAMPTON, JR. & CO., 8-10 Bridge St., New York.

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

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MERIDEN, CONN.—John J. Bonell entertained a number of his friends at his home 131 Converse avenue March 2.

BEAUMONT, TEX.—C. J. Axelson, formerly of St. Louis, Mo., has built up quite a modern and extensive greenhouse and floral business here having erected two houses 24x162 and 14x110 feet, respectively.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-Presdent; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

TRADE in some of the eastern Canadian sections is said to be very brisk.

PENDELTON, ORE.—F. J. Prann intends starting a nursery here and he has arrived on the ground.

READING, MASS.—Chas. S. Pratt, has filed a petition in bankruptcy. Liabilities, $3,751; assets, $573.

LINCOLN, NEB.—W. M. Bonnewell and Earl Cooper have purchased a 10-acre tract of land for the nursery business.

BOISE, IDAHO.—Hume & Bryan, proprietors of the Wendell nursery, now have 20 acres prepared and part of it set to nursery stock. Their present quarters are already found to be too small and they are now planning on adding another 20 acres to it.

Spirea Van Houttei.

There are few shrubs to equal the spireas for a fine display and possibly none among the early flowering section that can compare with the subject of our illustration, S. Van Houttei. Its beautiful flowers are so freely produced that the bushes appear to be covered with snow and a large block of it in a park or garden makes a splendid display. It is also excellent as a single specimen on a lawn, and, being strictly hardy and not particular as to soil it may be planted anywhere without fear as to the result. But keep the man with the shears away from it in spring. The proper time to prune is after the flowers are past when the older wood can be removed to make room for the forming new shoots.

Herbaceous Phloxes.

The plants of herbaceous phloxes as usually seen in gardens are but a poor imitation of what they could be if good culture, rich soil and careful attention were given and the plants were divided or otherwise propagated regularly every year. Old, starved clumps with their centers burned out by the hot sun in summer and their roots vainly seeking moisture and feed are but caricatures of the fine plants, carrying noble spikes of flower, that result from well considered treatment. As the time is approaching for propagation growers will be wise to keep this in mind and, while retaining their old plants for this reason, if necessary, prepare a lot of young vigorous stock for next year.

As soon as the young shoots are about three inches high, take off the requisite number for stock and use them for cuttings. Cut just below a joint and remove the lower leaves; insert in sandy soil in a frame or cool house and keep moist until rooted. By the end of May these will be nice plants and may be planted out in nursery beds at about nine inches apart when they will grow into good stock for next season's planting and to take the place of old and worn out plants. A sufficient number should be grown annually and a similar number of the old ones destroyed, three years being about the period of their usefulness.

Division of the plants is another simple and excellent method of propagating and may be carried out rather earlier than propagation by cuttings. As soon as the shoots are well above ground take up the plants and divide them into several pieces according to the size of the clumps, allowing four to six good young shoots to each division. Throw away the hard, useless centers of the plants; they are not worth the trouble of handling. The divisions may be planted at once where they are to grow and will flower abundantly the first season. Three to five plants set out in a clump give a far finer effect than single plants, but care is needed that the same variety is used in each. A border treated this way is always a fine feature in a garden not too much exposed. Hot sun is one of the worst trials to phloxes. They delight in a cool, moist soil and a sheltered and semi-shaded position. But if the shade is cast from adjacent trees the position is not good as a rule, as the tree roots rob the phloxes of their nutriment. There are numberless varieties in many differing shades of color, and pure white and a selection is easily made.

Nurserymen and the Tariff.

At the recent meeting of the tariff committee of the Society of American Florists considerable comment was made on the fact that the tariff committee of the Nurserymen's Association, instead of recommending a tariff schedule in line to produce approximately the same revenue as the old schedule and to relieve some of the technical difficulties in the administration of the law had, on the contrary, on several items, recommended radical increase. For instance, they recommended that the duty on roses instead of the present rate of 2½ cents each, be made four cents each, thus proposing an increase of 60 per cent. It was said, by a member, a well-posted horticulturist, that, with the present disposition of congress not to increase import duties but rather to slightly lower them, that such attempts as this, on behalf of the nurserymen or any similar attempt by any industry must result in a failure to get any consideration or to remedy the numerous red-tape difficulties which really need adjustment, at this time. It is to be hoped that the conference proposition, mentioned elsewhere in this issue, will make some of these matters clearer to the nursery trade committee than they now seem to be.

Golden Leaved Trees.

The judicious use in parks or gardens of trees whose leaves are of other colors than green is of considerable advantage from an artistic standpoint, for such trees make distinct breaks of color, and if planted tastefully blend beautifully with the prevailing hue, and serve to brighten up the landscape at a period when the flowers of most trees have fallen. A comparatively wide selection of trees is at hand for the purpose, and their leaves may be golden, purple, bronze, silver, or variegated. It is, however, with the former only that we are dealing at the present moment, and a considerable number of such trees to select from are at hand.

Golden leaved trees comprise both deciduous and evergreen subjects, and examples may be obtained for almost any position. They may be used in a diversity of ways, each having its peculiar merit. The larger-growing kinds may be placed in conspicuous positions in large or small groups, whilst as isolated specimens they are equally advantageous. Such groups formed on hillsides are frequently effective, for, in an elevated position, they can be seen from a considerable distance, especially when backed up by green-foliaged trees. Isolated examples are also commendable, especially for lawns and other conspicuous places. The smaller-growing kinds may be requisitioned for the neater parts of the garden, where they are equally at home

SPIREA VAN HOUTTEI.

mixed with purple, silver, or bronze-foliaged subjects, or planted to form simple golden masses, whilst some may be used successfully as dot plants in shrubberies, especially where the prevailing hue is of a somewhat somber character.

The group may be roughly divided into two divisions, evergreen and deciduous. The former is composed largely of conifers, the only other family which produces suitable material being the holly. Coniferous trees may be divided again into two groups, golden and golden variegated. In the former group the leaves are golden throughout, assuming a more or less greenish tinge towards winter, whilst in the latter the leaves may be striated with green or gold, as in many yews, or the gold and green may be in patches. The latter condition is very noticeable in some of the cupressuses, and varieties exhibiting this character should be avoided, for they rarely behave satisfactorily. The golden patches frequently die, and the variegation gives the trees a more or less diseased appearance. In the following notes varieties of this description are not mentioned.

Cupressus Lawsoniana provides several golden varieties, which assume the same habit as the type, and grow to a considerable size. They are increased by means of cuttings in autumn, or by grafting on to stocks of the type in spring. Good varieties are aurea, lutea, and gracilis aurea. The latter is of very elegant habit, and a distinct acquisition. The Japanese C. obtusa provides several varieties, good forms being aurea, tetragona aurea, and Crippsi. The latter is a strong-growing, richly-colored variety of good habit, whilst tetragona aurea is of slow growth, rather low stature, and good color.

In the retinospora group (C. pisifera) the best golden variety is plumosa aurea. This forms a distinctly beautiful specimen of plumose habit, with delicate golden leaves. It is well adapted for a conspicuous place on a lawn. The American arbor-vitæ (Thuya occidentalis) provides several golden varieties; aurea and lutea are the best, but they are inferior in merit to the various varieties of cupressus. Thuya plicata aurea is a strong-growing form of the "canoe cedar," whilst zebrina, a variety of the same species, has foliage curiously barred with green and gold. A golden variety of the Chinese arbor-vitæ (Thuya orientalis) is in cultivation. This is of rather dense, compact habit, and of slow growth. In addition to these there are golden varieties of Pinus sylvestris, Pinus cembra, and the common spruce. The various yews are very ornamental, but more frequently assume a bush-like habit than tree-like proportions. Good ones are T. baccata elegantissima, Barroni, Dovastoni aurea variegata, adpressa aurea, and fastigiata aurea.

For general purposes the deciduous section of the group is possibly of greater value than the evergreen set, for the various varieties thrive in places where coniferous trees would not have much chance. Catalpa bignonioides aurea is one of the best-colored trees we possess, the color being a rich gold, whilst it remains good from the time the leaves appear until they fall. Unfortunately, it is of low stature, growing in width more rapidly than in height. Amongst the sycamores and maples there are several golden-leaved and golden-variegated varieties. A few of the most conspicuous are Acer Negundo Californicum aureum, also known as A. Odessanum, a conspicuous and strong-growing tree of good color; A. Negundo aureo-variegatum, a variegated form of the same type; A. Prinz Handjery, a golden-leaved form of the sycamore, of rich color when the leaves expand, but fading to a yellowish-green tinge towards midsummer; a golden-variegated form of the sycamore, known as flavo-marginatis, is conspicuous, and keeps its color throughout the summer and autumn, while lutescens, a golden-leaved Acer platanoides, is very pretty.

A set of three elms provide change, one of them, a form of Ulmus campestris, known as Louis van Houtte, being specially worthy of notice. It is of strong growth, and rapidly forms a fine specimen. A form of the same species, known as antarctica aurea, is recognized by its weak growth and small golden leaves, whilst U. montana fastigiata aurea is a golden form of the fastigiate mountain elm. Two oaks are of value, Quercus pedunculata Concordia and Q. rubra aurea, both having rich golden foliage. For damp ground Alnus glutinosus aureus and Populus deltoidea aurea are both useful trees, the latter being a particularly fast grower, and a good subject to plant for a quick effect. Amongst ashes, a golden-variegated form of Fraxinus Americana, called aucubæfolia, is showy, and worth a place. In addition to the above-mentioned, there are several of inferior merit, a few of which are Ptelea trifoliata aurea, Pyrus Malus aurea, Laburnum vulgare foliis aureis, Acer dasycarpum lutescens, and Pyrus aria chrysophylla. As a miniature tree the golden form of the Japanese maple, Acer Japonicum, is very beautiful, while the golden-leaved varieties of Acer palmatum are equally desirable.—Gardeners' Magazine.

Helianthus Laetiflorus.

Last season I was much impressed with the serviceableness of Helianthus lætiflorus in a broad border in my garden, says a correspondent of the Journal of Horticulture. The year 1907 was disappointing for late-blooming perennial sunflowers, but in 1908 the weather conditions were better for these flowers. In 1907 even H. Miss Mellish did not flower with me, the frost coming so early that its buds were destroyed ere they could open. H. giganteus was also injured, while H. lætiflorus did not open either. There are several things being sold or grown under the name of this plant, but I believe that mine is the true plant. As stated in some works of reference, it resembles some forms of H. rigidus, but it seems free to a great degree from the running tendency of the varieties of H. rigidus, although erect growing and of the general appearance of that sunflower. With me it is about four feet or five feet high, and gives a great number of smallish yellow flowers. It is said to bloom in August, but it has never flowered with me so early, and last year it was in the very end of September when the first flowers opened.

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Providence, R. I.

Business remains steady but not brilliant. Carnations and roses hold at the usual winter rate, and are improving in quality.

A delegation of 10 members from the Florists' Club recently visited the Boston club and were entertained with speeches and luncheon. The night was stormy and the local delegation was justly proud of its numbers. The Boston club promised to be represented at one of our local meetings in the near future. Last Friday Messrs. Craig, White, Finlayson, Duncan and Cooper of the Boston club, accompanied by Messrs. McCarthy and Macnair of this city, visited the extensive grounds of Senator Aldrich at Warwick. Despite a windy day, the visitors made a thorough inspection of the beautiful property and voted it the best thing along our New England shore. Mrs. Greene prepared a splendid lunch which was served in the new stone house. The party also visited J. A. Foster's, but lacked the company of Manager Burke, who was down with grip that day. By 4 p. m. the party were at the Budlong rose farms in Auburn, where, in charge of Mr. Pritchard, they were shown over this amazing enterprise, with its great houses of Killarney, Bride, Bridesmaid, Chatenay and Richmond, all in the pink of condition and flowering well. One house of Bridesmaid looked like a streak of pink ribbon, so abundant were the blooms. The delegation on the way to the station stopped off long enough to see the store of Macnair-Florist and were given a very good working idea of the establishment, with its salesroom, designing department and flower-coolers. M. M.

VAUGHAN'S LIST OF

Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots and budded	$2 00	$12 00
3 yrs. old, 3 to 4 ft., well branched, own roots and budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
KILLARNEY, 2 yr., budded	2 50	18 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, budded	2 50	16 00	135 00
3rd size, selected, budded	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3-inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00
TREE ROSE Baby Rambler, 1½ to 2½ ft. ..... each, 75c; per doz., 8 00
TREE ROSE Baby Rambler, 2½ to 3 ft. ..... each, $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.

French Stock ..... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

GRAFTED ROSES

On selected Manetti, clean, healthy wood grown, especially for grafting.

BRIDE, MAID, CHATENAY, KAISERIN, KILLARNEY, RICHMOND, WELLESLEY.

$12.00 per 100; $100.00 per 1000.

My Maryland ..... $20.00 per 100 | **Rhea Reid** ..... $15.00 per 100

(Orders booked now and plants held till you are ready for them after the Easter rush or later).

Lily of the Valley. A few cases still to offer of **Reimschneider's Holsatia,** 3 year Hamburg pips, heavy roots, extra strong, suitable for late forcing.

Per **case** of 2000 pips, $24.00.

JACKSON & PERKINS CO., Newark, N.Y.

Dreer's Tuberous Rooted Begonias

The Begonias and Gloxinias which we offer are grown for us by an expert who has made a specialty of this class of stock for many years, and there is no better or finer strain on the market.

BEGONIAS, Singles in separate colors: Scarlet, crimson, white, rose, yellow and orange, 40c per doz., $3.00 per 100, $25.00 per 1,000.

BEGONIAS, Singles in Choicest Mixture: 35c per doz., $2.50 per 100, $22.00 per 1,000.

BEGONIAS, Doubles in separate colors: Scarlet, rose, white and yellow, 65c per doz., $5.00 per 100, $40.00 per 1,000.

BEGONIAS, Double in Choicest Mixture: 50c per doz., $4.00 per 100, $35.00 per 1,000.

SUN-PROOF BEGONIA, Duke Zeppelin: $1.25 per doz., $8.00 per 100.

SUN-PROOF BEGONIA, Lafayette: $2.00 per doz., $15.00 per 100.

FRILLED BEGONIAS, in separate colors: Scarlet, white, pink and yellow, $1.00 per doz., $7.00 per 100, $60.00 per 1,000.

For a full line of seasonable stock, see our new wholesale list.

HENRY A. DREER, Philadelphia, Pa.

Chrysanthemums

—— AND ——

Aster Seed

Elmer D. Smith & Co.

ADRIAN, MICH.

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Bargains in 4-inch Pot

ROSES

for immediate shipment.

400 best sorts, 2½-inch now or Spring.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

MOLINE, ILL.—J. J. Staack & Son are planning on a large greenhouse establishment at Watertown on land they have purchased there, also on improving much of the land and establishing a nursery. The home establishment will probably be retained.

FRESH STOCK, GUARANTEED TRUE TYPE

ORCHIDS

No Greenhouses Direct To You.

Cattleyas all collected in flowering season.

C. Mendelii arrives in May.
C. Mossiæ arrives in June.
C. Gaskelliana arrives in August.
C. Gigas Hardyana arrives in October.

C. Aurea arrives in October.

Miltonia Vexillaria now ready.
M. Roezlii arrives in October.

In any quantity. Place order early.

G. L. FREEMAN, 388 Appleton St., HOLYOKE, MASS.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World.

SANDER, St. Albans, England.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM.** Agent.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

GET YOUR ORDER IN FOR EASTER PLANTS

Lilies, Spireas, Azaleas, Hydrangeas, &c., &c.

Will ship Lillies in paper pots so they will reach you in fine shape. All will be in for Easter. Ask us to send you our Soft Wooded plant list. **Dreer's Fancy Petunias. Fine Fuchsias, Salvia Zurich, Geraniums, etc., etc.**

GEO. A. KUHL, Wholesale Grower. **PEKIN, ILL.**

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high	$2 50 each
7-in. pots, 36 to 38-in. high	3 00 each
9-in. tubs, 42 to 48-in. high	5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each. $7.50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,
225 W. 16th St., DAVENPORT, IOWA

---

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.

Cinerarias, 4-inch	$5.00 per 100
Pansies, fine plants	2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns. Boston and Scottii, 4-in. pots, $1.50 per doz., $10 00 per 100; Boston, 3-in. pots, $4.00 per 100; Whitmani, 3-in. pots $5.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100
Cannas, King Humbert and Mt. Blanc, 3 in. pots, $5.00 per 100.
Dracena Indivisa, 5-in. pots $2.00 per doz.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots $5.00 per 100
Clematis, large flowering varieties, dormant plants, $15.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100.
Ficus Elastica, 6-in. pots, 25c each.
ROOTED CUTTINGS from soil. $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem), Coleus (Verschaffeltii and Golden Bedder), Alternantheras, 4 varieties, 50c per 100, from sand.
Carnations. R. C., from soil, $2.00 per 100—Pink: Enchantress, Dorothy; scarlet: Robt. Craig, Elbon; white: Flora Hill, B. Market.—Winsor, $3.00 per 100.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.50 per 100; 3-in. $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins Ricard, Grant La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in. pots, $2.50; 3-in. $5.00 per 100. Mme. Salleroi, 2-in. $3.00 per 100
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in. $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-inch, $2.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order.

GEO. M. EMMANS, NEWTON, N. J.

Carnations in Variety

ROOTED CUTTINGS

	Per 100	1000
Enchantress,	$2 50	$20 00
White Enchantress,	3 00	25 00
White Lawson,	1 50	12 50
Pink Lawson,	1 50	10 00
Var. Lawson,	2 00	18 00
Winsor,	2 50	20 00
Lady Bountiful,	1 50	12 50
Boston Market,	1 50	12 50
Beacon,	3 50	30 00
Kingston Pet,	2 50	20 00
Pres. Seelye	4 00	35 00

Newburgh Floral Co.,
58 Second St., **NEWBURGH, NEW YORK.**

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

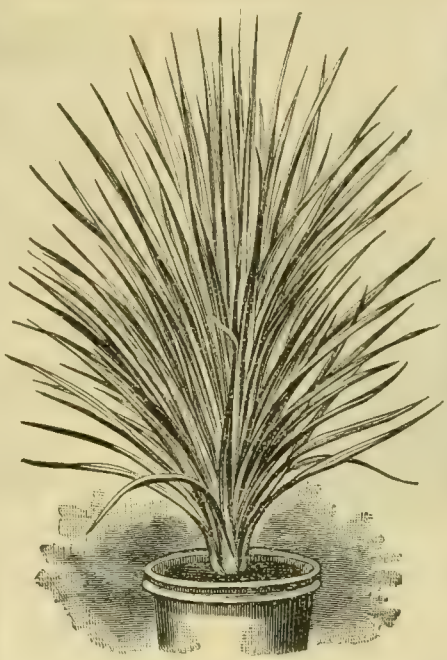
R. Witterstaetter, Station F., **Cincinnati, O.**

PETER FISHER

Ellis, Mass.

Send for Price List of Carnations.

ROCKLAND, ME.—The Mather greenhouse on Pleasant street is to have a new and commodious office and a bulb cellar added to its equipment in the spring.



Easter Lilies in Pots

Write for Prices.

Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

	Per doz.	Per 100
3-inch	$ 0.75	$ 6 00
4-inch	1.50	12.00
5-inch	3.00	22.50
6 inch	6.00	45.50
7-inch	7.00	
8-inch	12.00	

You can recommend these plants: first-class value for the money. If you don't want them shipped at once, we will reserve them until any date you name, only send in your order today.

Send for complete wholesale price list of Palms and Ferns.

The Geo. Wittbold Co.,
1657 Buckingham Place, CHICAGO.

VERBENAS

62 Fine Varieties. Perfectly Healthy.

Rooted Cuttings, our selection	$ .75 per 100;	$ 6.00 per 1000
Plants, our selection	2.50 per 100.	20.00 per 1000
Rooted Cuttings, purchaser's selection	.90 per 100;	8.00 per 1000
Plants, purchaser's selection	3.00 per 100;	25.00 per 1000

Carnations

All the Best New and Standard Varieties. Send for circular.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS.

We have an immense stock of fine plants from 2-in. pots for immediate shipment, at prices running from $2.00 per 100 up to 50c. each. We will send 1000, 50 each of 20 good sorts, our selection, for $18.50. Our Special Geranium Catalogue describes upwards of 250 varieties.

We have the following in first-class stock from 2-in pots 25 at 100 rate, 250 at 1000 rate.

	Per 100	1000
Achryanthes, Emersoni	$2 00	$18 50
" Besteri Mosaica	2 00	18 50
Ageratum, Inimitable, Princess Pauline	2 00	18 50
" Dwarf White, Stella Gurney	2 00	18 50
Cineraria, Maritima Candidissima	2 00	17 50
Centaurea, Gymnocarpa	2 00	17 50
Hardy Chrysanthemums, send for list	2 00	17 50
Dahlias, Send for list of Standard and New varieties, only the best plants for spring delivery	2 00 and up.	
Fuchsias, in good varieties	2 50	
Hardy English Ivy,	2 00	15 00
Parlor Ivy, Senecio Scandens	2 00	
Lobelia, Kathleen Mallard, Double	2 00	18 50
" Crystal Palace Gem, Single.	1 50	
Petunia, Dreer's Superb Single	2 00	
Salvia, Bonfire	2 00	18 50
" Zurich	3 00	22 50
Smilax, Extra strong	2 00	18 50
Verbena, Large flowering, red white, pink and blue	2 00	

R. Vincent, Jr. & Sons Co., White Marsh, Md.

LARGE FERNS FOR EASTER

		Per 100
Boston and Piersoni,	5-in	$25.00
" " "	6-in	40.00
" " "	7-in	60.00
" " "	8-in	80.00
Scotti, Whitmani and Elegantissima,	5-in	50.00
" " "	6-in	75.00
Asparagus Plumosus,	4-in	8.00
" "	5-in	15.00
" "	6-in	20.00

MOSBAEK GREENHOUSE COMPANY,
ONARGA, ILLINOIS.

VERBENAS 70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100: $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000. All rooted cuttings.

GERANIUMS, from 2¼-in. pots. at $2.50 per 100; $22.00 per 1000.

Express prepaid on rooted cuttings.
Cash with order. Write

S. D. BRANT, Clay Center, Kan.

PANSY PLANTS.

100,000 large flowering from fiield beds.
50c per 100; $2 50 per 1000.

Geraniums 2½-in. pots, my se'ection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.
— Cash —

JOS. H. CUNNINGHAN, DELAWARE OHIO.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express. east of the Mississippi.
Large seedlings, $7.50 per 1000;
No order taken for less than 1000.

Drake Point Greenhouses, Yalaha, Florida

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias.** 5 kinds, 90c; **Pilea.** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Varieg.,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula.** Obc. Grandif. Lilac, 2¼-in., strong stock. $1-75 per 100: 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

PREPARE FOR EASTER

From Whom Will We Purchase Our Easter Supply?

An Immense Stock of Choice Easter Plants Now Ready for Immediate Shipment.
Blooming Easter Week or Before if Desired.

"From whom shall we purchase our Easter supply this season?" That seems to be the cry all over the country. "We have tried so many already. I know what I am going to do," some sensible man says. "I shall go back to Godfrey Aschmann. He is the best and most reliable man in the business. What he advertises he has and there is no bluff about it, I tell you his usual stock of **Azaleas** can't be beat, and the **Lilies** he has this spring are the finest I have ever seen. No wonder. He imports them direct from Japan. He has a friend in Japan who looks after his interests and sends him the cream of Japan's plants. He has enough to supply all, and I tell you no lie when I say that his other plants, such as **Hydrangeas, Cinerarias, Spireas, Ficus, Araucarias, Palms, Hyacinths, Tulips, Daffodils, Etc.,** are of such excellent quality that they will make a man's mouth water, and they are so remarkably cheap that we often wonder how he can do it."

AZALEA INDICA.

We are headquarters for these plants for the past twenty-five years. We make a specialty of importing large quantities of this so well known favorite Easter novelty Grown for us in Ghent Belgium, by an Azalea specialist. Have now three houses full of the choicest. Only well known American varieties are imported They are planted in the fall, as soon as they arrive from Belgium, into 6, 7 and 8 in. pots, planted in greenhouses and kept cool during winter. They are now in excellent condition, covered with buds, just right for Easter.

☞ Please bear in mind facts (mostly unknown to some Azalea growers) that fully 30 to 40 per cent of the newly imported Azaleas in dormant state will lose their buds and foliage during the long transportation of the sea voyage and during winter up to Feb 1 and have to be kept over for another year

☞ We only ship good stock and full of buds and flowers, and therefore you can't expect Azaleas at this time to be as big and as cheap as if you would buy them in dormant state in the fall.

☞ What is the name of the best double pink Azalea? Mme. Van der Cruyssen is the name. Originated by the well known Azalea specialist, Mr. Van der Cruyssen of Belgium. Millions are raised every year and shipped into every part of the globe from Belgium. We have a big stock on hand of this well known variety. Every plant is as round as an apple, covered with buds just right for Easter. Have all sizes for 60c, 75c, $1.00, $1.25, $1.50, $1.75 to $2.00 each.

Deutsche Perle (double white) 75c, $1.00, $1.25 to $1.50; Bernard Andreas Alba (white) we have mostly big plants of this variety, $1.50, $2.00, $3.00 to $3 50, a few at 75c, $1 00 to $1 25; Niobe (also white), 75c, $1.00, $1.25, $1.50 to $2.00 each.

Vervæneana, De Schryveriana (double variegated), 75c, $1.00, $1.25 to $1.50; Dr. Moore and Memorie de Louis Van Houtte (double pink), $1.00, $1.25 to $1.50; Apollo (red), 50c 60c, 75c to $1.00; other good varieties, such as John Llewellyn, Emperor of Brazil Talisman, Helena Thielmann, Illustre, etc., 75c $1.00 to $1.25.

When we are out of one color we send the next similar color; also if we are out of the size ordered, we send the next size, either above or below the price mentioned.

Easter Lilies. Lilium Multiflorum, the genuine Japanese Easter lily, directly imported by us. We have a friend in Japan who looks after our interests there. He picks out for us only the good, healthy ones, and marks them while they are growing, the 10-in. bulbs, and therefore he ships to us the cream of the plants of Japan. We have Lilies this year to burn; can supply, if nothing happens, every customer and others who want Lilies. If you see them growing in our greenhouses, you must all admit they are "crackerjack9"; we sell them cheap, too. Where other florists get 15c per bud, we only charge you 10c per bud for plants in 6 in. pots, having 5 8 10 and more buds to the plant. Plants under 5 buds, 12c per bud, 6-in. pots.

Jerusalem Cherries, large plants, full of buds, 6 to 6½in. pots, 35c, 50c.

Moonvines (Ipomœa Multiflora), best white Moonvine for which we have a world-wide reputation, now ready 2½-in. pots, $5.00 per 100.

Araucaria Robusta Compacta, Glauca and **Excelsa.** Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds same as when we first started. Why the Arsucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen.

Araucaria Robusta Compacta. Specimen plahts, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variesy, very graceful snd beautiful, Specimen plants, 6-7 8 in. pots, 4-5 year old, 4 5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old 4-5-6-7 tiers 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

Hybrid Rose Bushes, grafted, long plants, 30 inches to 3 feet high, John Laing Brunner, Magna Charta etc. 6-in pots, 50c, 75c to $1.00. **Rambler Dorothy Perkins,** etc., 5½ in., 50c; **Hermosa,** 5 in., 35c.

Begonia new improved Erfordi, 5-in., $2.00 per doz ; **Begonia Flambeau** 5-in $2.00 per doz

Spirea Gladstone. This variety, owing to the dry summer in Holland last year, is very scarce this Easter, but we were fortunate enough to secure sufficient to fill our usual house, and the plants are now in fine condition, full of buds, just right for Easter, 6-7 in. pots, 75c to $1.00 each. Spirea Floribunda, Japonica and Superba, 6-in. pots, 25c, 35c to 50c.

Primula Obconica, 5-in. pots, $2.00 to $2.50 per doz.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot $2.50 per doz. pots.

Hyacinths, 4 best colors, King of the Blues, Grand Maitre (light blue), La Grandesse (best white), Gertrude (best pink), 4-in. pots, $12 00 per 100. Now outside in cold frames. Two weeks will force them into bloom.

Asparagus Plumosus Nanus, 3-in., $5.00 per 100.

Hydrangea Otaksa, in bud, 6-7 in. pots, 35c, 50c 75c to $1 00 each.

□ **Cineraria Hyb. Graddiflora,** H. F. Michell's new improved strain. Our plants of this strain are twice the size of those of other years, with perfect, large, green foliage. Some of the plants are almost as large as a bushel basket. 6 in. pots, 25c 35c, 50c 75c to $1.00 each.

Areca Lutescens, 4-in. pots, three plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in. pots 25c; 30c, 40c to 50c.

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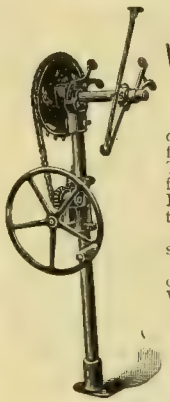

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CARNATIONS, immediate delivery, Bay State, the gold medal winner, Georgia, Mrs. J. C. Vaughan, $12 per 100; $100 per 1,000. Afterglow, Winona, $6 per 100. White Enchantress, Beacon and Winsor, $3.50 per 100; 30 per 1,000. Rose Pink Enchantress, White Perfection, Enchantress, $3 per 100; $25 per 1,000. Lawson, White Lawson, $2.50 per 100; $20 per 1,000. Chas. H. Totty, Madison, N. J.

Carnations, White Perfection, White Enchantress, Winsor, Beacon, $3 per 100; $25 per 1,000. Afterglow, Lawson-Enchantress, Sarah Hill, $6 per 100; $50 per 1,000. Georgia, $12 per 100; $100 per 1,000. Victory, $2.50 per 100; $20 per 1,000. R. P. Enchantress, $3 per 100; $20 per 1,000. Enchantress, $2 per 100; $18 per 1,000. Mrs. Patten, $1 per 100; $10 per 1,000. Lawson, $1.50 per 100; $12.50 1,000. Weiland & Olinger, New Castle, Ind.

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Carnations, R. C., from soil, $2 per 100: Enchantress, Dorothy, Craig, Elbon, Flora Hill, B. Market, Winsor, $3 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Carnations, Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson, Harlowarden, Eli Cross, 25 Monroe St., Grand Rapids, Mich.

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Ferns, Boston, 6-in., 50c; 7-in., 75c to $1.25; 8-in., $1.50. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c and $1; 8-in., $1.50. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50, Amerpohli, 5½ to 6-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Geraniums, standard varieties, R. C., $1.75 per 100; $15 per 1,000; 2¼-in., $3 per 100; $25 per 1,000. Mosbæk Greenhouse Co., Onarga, Ill.

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Greens, fancy and dagger ferns, $1.75 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $7.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

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Heliotrope, $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

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Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

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Palms, Areca lutescens, 4-in., 25c. Kentia Bel., 5 leaves, 5½-in., 25 to 30 ins., 50c to 60c; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

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Pansies, Jenning's strain, 1st size in bud and bloom, $1.25 per 100; 2nd size, bud and bloom, $1 per 100; strong plants bloom in April, $5 per 1,000; smaller size, $4; seeds, $1 per pkg., 4,000 seeds, $4 per oz. E. B. Jennings, box 254, Southport, Conn.

Fancy strain pansy plants, extra large, stocky plants in bloom and bud, $15 per 1,000. Joy Floral Co., Nashville, Tenn.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

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Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

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Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

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Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

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Peonies, Double Chinensis. Order Now. 2 to 5 eye divisions in red, pink and white. Splendid values, $1 per doz.; $5.50 per 100. Our list of 116 varieties for fall planting now ready. Ask for it. All the good ones, including the latest varieties. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Peonies, distinct named kinds and colors; strong roots, $1 per doz.; $8 per 100. F. A. Baller, Bloomington, Ill.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

Peonies. Warnaar & Co., Sassenheim, Holland.

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Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunia Marvel, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

PRIMULAS.

Primula obconica, 5-in., $2 per doz. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Roses, R. C., Maid, Bride, Moulton, $1.50 per 100; $12 per 1,000. Richmond, $2 per 100; $15 per 1,000. Am. Beauty, $3 per 100; $25 per 1,000; bench plants, $7 per 100; $65 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

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Bridesmaid	15.00	120.00
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My Maryland	$10.00	$90.00
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Denver, Colo.—Daniels & Fisher.
Denver, Colo.—The Park Floral Co.
Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.
Galveston, Tex.—Mrs. M. A. Hansen.
Helena, Mont.—State Nursery Co.
Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.
Kansas City, Mo.—Geo. M. Kellogg Estate, 906 Grand Ave. Also Pleasant Hill, Mo.
Kansas City—Samuel Murray, 1017 Broadway.
London, Eng.—Wills & Segar, Onslow Crescent, Kensington.
Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.
Louisville, Ky.—J. Schultz, 644 4th Ave.
Nashville, Tenn.—Joy Floral Co., 610 Church St.
New Orleans, La.—U. J. Virgin, 833 Canal St.
New York—M. A. Bowe, 1294 Broadway.
Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.
Owatonna, Minn.—Clinton Falls Greenhouses.
Philadelphia, Pa.—Robt. Kift, 1725 Chestnut St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.
San Francisco, Calif.—J. B. Boland, 60 Kearny St.
St. Louis, Mo.—Young's, 1406 Olive St.
St. Paul, Minn.—Holm & Olson.
Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.
Toledo, O.—Krueger Bros.
Toronto, Ont.—Dunlop's, 96 Yonge St.
Washington, D. C.—Z. D. Blackistone, 14th and H Sts.
Washington, D. C.—A. Gude & Bros., 1214 F St.

BLOWERS.

Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

BOILERS.

Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers. Meyers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, N. Y.

Boilers, boilers of high grade for greenhouses. Steam or hot water. Giblin & Co., Utica, N. Y.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., N. Y.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

Rococo boilers and hot water heaters. American Heater Foundry Co., West Chicago.

BUILDING MATERIAL.

Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouses and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material, cypress sash bars. Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress"; everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

Greenhouse material. Louisiana red cypress. Louisiana Red Cypress Co., Hibernia Bldg., New Orleans.

Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes. Established 1851. John B. Smith & Sons, Ltd., Toronto, Can.

Building material of all descriptions for all cypress, semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

If you do not find what you need in our Ready Reference Department, write us about it.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Sunlight double glass hotbed sash. Sunlight Sash Co., 506 Floyd St., Louisville, Ky.

CARNATION GREEN.

Carnation green fluid dye, 50c per pt., 75c per qt., 10 qts., $6. A. L. Randall Co., 19-21 Randolph St., Chicago.

Emerald Green Carnation Fluid, $1 per qt. Winterson's Seed Store, 45-49 Wabash Ave., Chicago.

Green carnation fluid, $1 per quart. Mrs. F. Beu, 60 Wabash Ave., Chicago.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Peerless glass repair clamp, $1 per 100. A. Klokner, Wauwatosa, Wis.

GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No right or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburgh, Pa.

Glazing points. Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 115 Blackhawk St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. Y.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, N. Y.

HOSE.

CRESTLINE SPECIAL, Garden Hose. Made in three different weights. A tough, durable hose that has the life in it. Every section guaranteed. State whether black, red or white.

Price with couplings:	5-ply.	6-ply.	7-ply.
½-in., per 50 ft........	$4.00	$5.00	$5.50
½-in., per 100 ft........	7.75	9.75	10.75
¾-in., per 50 ft........	4.50	5.50	6.00
¾-in., per 100 ft........	8.75	10.75	11.75

Immediate shipment. Express or freight.
THE CRESTLINE MFG. CO.,
Box 233. Crestline, O.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters. Jenning's improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides, tobacco paper, 24 sheets, 75c; 144, $3.50; 288, $6.50; 1,728, $35.10. Nicofume liquid, pint, $1.50; ½ gal., $5.50; gal., $10.50; 5 gals., $47.25. The Kentucky Tob. Product Co., Louisville, Ky.

Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton, $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

Insecticides. Nicoticide Bug Killer, the best bug killer and bloom saver. P. R. Palethorpe Co., Owensburg, Ky.

Fumigating supplies, vaporizing pans for tobacco extract, improved. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

"Sulfocide" Pratt's Soluble Sulphur Summer Spray. B. G. Pratt Co., 50 Church St., New York.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

MISCELLANEOUS.

OILED APRONS AND COATS.

Guaranteed waterproof and will wear much longer than rubber clothing with same care and cost less. Colors, yellow or black.

Aprons, size about 30"x45", 10 oz., 75c each, 12 oz., 85c each.

Long coats, yellow, $2.75 each, black $3.00 each.

¾ coats, yellow, $2.40 each, black $2.65 each.

The long coats reach to shoe tops and the ¾ coats reach to knees. When ordering state color desired, also size coat you wear.

KEYSTONE MANFG. CO., 5th and Girard Ave., Philadelphia.

Krick's Perfect Plant Stand No. 1, including 10-inch saucer and rest, $2.35; No. 2, 14-inch saucer and rest, $2.50. W. C. Krick, 1166 Greene Ave., New York.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Kinney pump, prepaid, $2. The Hose Connection Co., Kingston, R. I.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Pl., Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Wire work, second to none. Wm. H. Woerner, 520 N. 16th St., Omaha, Neb.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co, 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Stuttle's patent pipe clamp. Henry Stuttle, Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot Mfy., 490 Harvard St., Detroit, Mich.

Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, N. Y.

PUMPING ENGINES.

Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

STAKES.

Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit, Mich.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Baskets for florists, see advertisement in this issue for sizes and prices. Coles & Co., 109-111 Warren St., New York.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag. $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

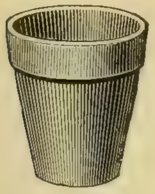
Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Iron reservoir vases. McDonald Bros., Columbus, O.

VENTILATING APPARATUS.

Ventilators. One Wolf Roller Bearing Machine is raising uniformly 50 heavy hotbed sash. Most powerful and labor saving. Send for estimates and references. The Wolf Machine Co., Dayton, O.

If you do not find what you need in our Ready Reference Department, write us about it.



THE WHILLDIN POTTERY COMPANY
THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

Standard Flower Pots!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	$4.88	144 6-in., in crate,	$3 16
1500 2¼ "	5.25	120 7 "	4 20
1500 2½ "	6.00	60 8 "	3.00
1000 3 "	5.00	HAND MADE	
800 3½ "	5.80	48 9-in., in crate,	$3 60
500 4 "	4.50	48 10 "	4.80
456 4½ "	5.24	24 11 "	3.60
320 5 "	4.51	24 12 "	4.80
		12 14 "	4.80
210 5½ "	3.78	6 16 "	4 50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers Hanging Baskets Lawn Vases etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE OHIO.

Those Red Pots

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS,
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.

HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St

Florists' Refrigerators

Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.

McCRAY REFRIGERATOR CO.
960 Mill Street, KENDALLVILLE, IND.

H. BAYERSDORFER & CO.,

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA
Send for our new catalogue.

MINNEAPOLIS, MINN.—Wm. D. Desmond has purchased an interest in James Souden's firm, 106 South Sixth street. The firm name has been changed to Souden & Desmond, and the business will be moved from the present location on Sixth street to 833 Hennepin, a much larger store. Plans are now being figured on by Souden & Desmond for the erection of large greenhouses and nurseries. "We are going to make this a flower house every Minneapolitan will be proud of," said Mr. Souden.

Baskets for Florists

COLES & COMPANY,
109 and 111 Warren St., NEW YORK.

—Write for 1909 Catalogue—

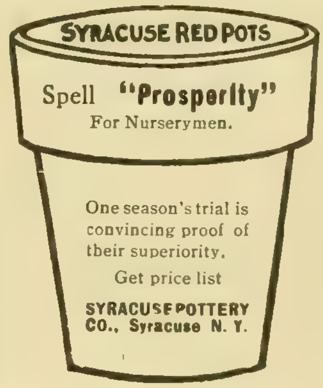
ARROW BRAND

TILLS OR VERBENA BASKETS.

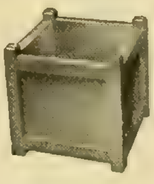
MADE THE CORRECT SIZE. WHITE WOOD. BEST QUALITY.

No.	Capacity	Inches Long	Inches Wide	Inches Deep	Packed in Crates of	Weight per crate	Cost per 1000
1	1 quart	8¼	5	2½	500	104	$ 7 50
2	1½ "	9½	5¼	3	500	117	8 00
W. Scant	2 "	10	6	2¾	500	125	8 50
13	2 "	10	6	3	500	133	8 75
3	2¼ "	9¾	5¾	3½	500	133	8 75
10	2½ "	10	6½	3¼	500	140	9 00
11	3 "	10½	7	4	500	171	9 00
12	3½ "	11	7	4	250	97	10 00

With detatached wire handles if required, $2.00 per 1000 additional.



MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants boxwoods, bay trees, etc. They are attractive in design strong and durable. Suitable for either outdoor or indoor use. Write for prices.

WAGNER PARK CONSERVATORIES, Sidney, Ohio.

DECORATING FLOWER POTS

A BUSINESS NEED

Send fifteen cents in stamps and we will mail you a cover price list and booklet, explaining all about these great covers

EVER READY FLOWER POT COVER CO.,
W. H. Grever, Manager,
146 Hughes Ave., **Buffalo, N. Y.**

GEO. KELLER & SON,
Manufacturers of
Red Pots

Before buying write for prices.
361-363 Herndon St.,
CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for Prices.

A. F. KOHR,
1521 Leavitt Street, CHICAGO

Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE.

Furnishes the Most Nicotine for the Money!

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

By far the CHEAPEST.

JUST NOTE PRICES:

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT

76-78 Wabash Ave., CHICAGO

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S

SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray. Use 1 part to 75 or 100 parts of water.

B. G. PRATT CO., 50 Church St., New York, U. S. A.

Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

THE H. A. STOOTHOFF CO.,

MOUNT VERNON NEW YORK.

Pat. Nov. 21, 1899.

KRICK'S

Perfect Plant Stand

This Stand Is Adjustable and Folding

Can be raised from 24 to 40 inches in height

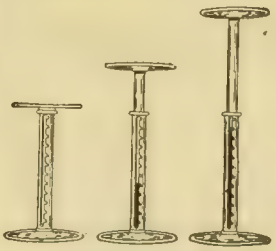
The top of stand is furnished with a saucer and curved rest, SHOWING PLANTS TO BEST ADVANTAGE in decoration.

Are Tastefully Finished in Aluminum and Gilt.

No. 1, including a 10-inch saucer and rest.....$2.35
No. 2, including a 10-inch saucer and rest..... 2.50

W. C. KRICK

1164-1166 Greene Ave., Brooklyn, New York



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

Garden City Sand Co.

Chamber of Commerce Bldg., CHICAGO.

Phone: Main 4827.

BUILDING AND PROPAGATING SANDS.

Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,

R. I. W. DAMP RESISTING PAINT.

"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

If a pane of glass cracks it feels more comfortable between the bars; disagreeable indeed—but if you slip a Glass Repair Clamp over the crack you can see yourself smile.

$1.00 a 100 by dealers or by

A. KLOKNER, WAUWATOSA, WIS.

Albany, N. Y.

Among the very creditable designs lately by local retailers was a large shield by W. C. King for the funeral of Frederick J. Kingsbury, for many years an employe of the local office of the American Express Co. The shield was in the form of the company's well known trade mark and was made up of Bride roses, orchids and violets. The Masonic fraternity also had Mr. King make up a large standing cross of galax and callas, and friends contributed two pillows of Bridesmaid roses, orchids and violets.

Otto Burkhart, 399 Quail street, for many years in the employ of Whittle Bros., has resigned his position and will start in business as a grower. He will erect on his large lot at Quail street and Woodlawn avenue this spring a carnation house 30x150 feet.

Edward P. Tracey of the Rosery and Philip Warner of Newtonville are enthusiastic over their recent visit to the exhibition in Horticultural Hall, Boston. Both agree that if you want to learn what is going on in the trade that is the place to go. R. D.

WATERBURY, CONN.—Truman S. Lewis, of Woodlawn terrace, will build a greenhouse 20x50 feet.

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

Mention the American Florist when writing

Unrivalled for all Purposes.

THOMSON'S

Vine, Plant and Vegetable

MANURE

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES

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Tweed Vineyard. Clovenfords, Scotland.
Sold by the leading American seedsmen.

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INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

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Original Designs.

Attractively Finished.

We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

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Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

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THE IDEAL WINTER SPRAY

SCALE KILLER & FUNGICIDE

POWERFUL CLEANSER AND INVIGORATOR
Mixes Instantly. No Sediment. No clogging. Non-injurious to user
COMPARATIVE TEST WILL PROVE ITS MERITS
Quart, $1.00; Gallon, $3.00
1 gallon makes 100 gallons. Write for descriptive pamphlet and testimony

PROPS. WM. COOPER & NEPHEWS
177 ILLINOIS ST. CHICAGO
Freight prepaid on direct orders. Mention this paper.

THE BEST Bug Killer and Bloom Saver

For **PROOF** Write to

P. R. PALETHORPE COMPANY,
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SCOLLAY'S

Plant Sprinkler Putty Bulb.

VAUGHAN'S SEED STORE, CHICAGO NEW YORK

The Kinney Pump

Mixes liquid manure with the water while watering. Fully guaranteed.
Sent prepaid for $2.00

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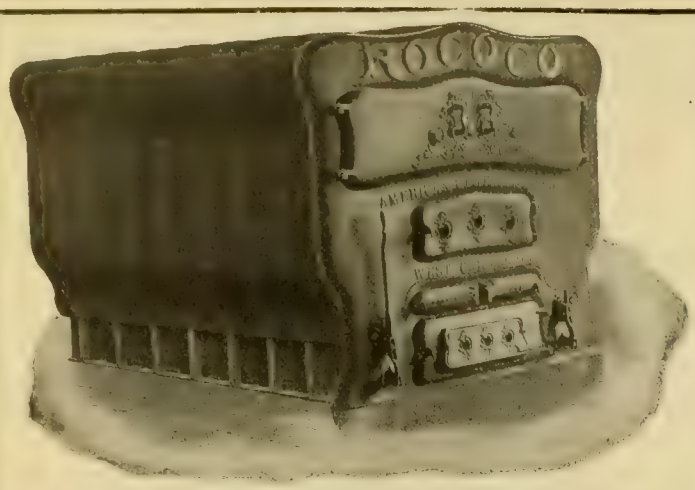
ELMIRA, N. Y.—Makres & Kominos opened a retail store at 331 East Water street February 27.



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The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

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Hartford, Conn.

There was a fine display of carnations February 26, at the meeting of the Connecticut Horticultural Society in the county building. On a long table in the center of the room were large vases filled with pink, red and white carnations. Among the varieties exhibited were Enchantress, Red Lawson, Rose Pink Enchantress, White Lawson, Beacon and Pink Lawson. Miss Helen Whiting of West Hartford was given first award for her exhibit, A. N. Pierson of Cromwell second and J. F. Huss third. W. H. Shumway of Berlin was given honorable mention for his exhibit.

A paper on carnations was read by Howard A. Pinney, tracing them back 300 years before Christ and describing the evolution in modern times. In behalf of the Historical Society, Geo. W. Smith presented to the retiring secretary, Alexander Cumming, Jr., a purse of money. Mr. Cumming goes to Seattle, Wash., and this was his farewell to the society of which he has been secretary for two years. Geo. W. Smith was appointed secretary to succeed him.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade **Estimates Furnished Free,** Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs pressure.

1-48x21 locomotive fire box boiler. 60 horse power 100 lbs pressure

24-Horizontal tubular boilers, triple riveted ½-in. shell ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

Greenhouse Boilers. A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers Return tubular boilers. Cast Iron Sectional boilers, etc.; some are rebuilt some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters.

Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$600.**

Boiler Flues. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with caked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

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HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list

5 carloads of Boiler tubes 2 to 6 inches inclusive also tubes with threaded ends. Get our prices on pipe valves and fittings; we can save you money. Greenhouse fittings at half price

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Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us

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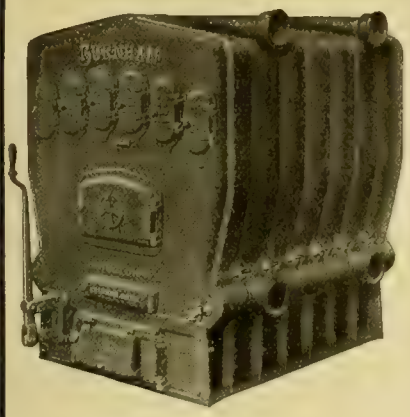
MONMOUTH, ILL.—Hewitt's Flower Store is building a new greenhouse, the business having grown sufficiently to make this necessary.

GUTHRIE, OKLA.—Furrow & Co., are building an additional greenhouse on their farm, just north of the city, 50 x 150 feet.

The Burnham

Send for Catalog.



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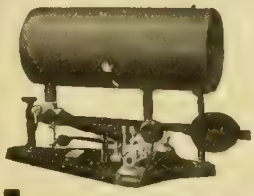
BURNLEY, ENGLAND.

For Greenhouses



MOREHEAD

Return Steam Traps

Embody all the Modern Requirements in a Steam Trap for Greenhouse Service.

Simple in construction and operation, can be installed anywhere and occupies small space. Requires no special attention, no lubrication, repacking of joints and glands, or repairs of any kind. Handles water at any temperature, never sticks, operation always visible. Works automatically nd absolutely reliable. Sent on 30 days trial.

MOREHEAD MFG. CO., 1047 Grand River Avenue, **Detroit, Mich.**

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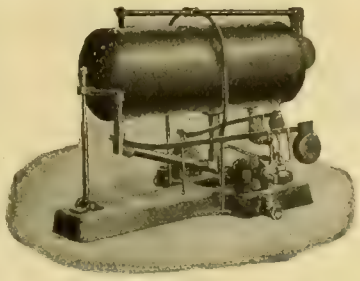

"Detroit" Return Trap. (Patented)

Will keep any Steam heating system free from water making every foot hot and efficient returning automatically all water of condensation directly into the boiler—hot—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. DETROIT, MICH.

THE KROESCHELL BOILER

is the only perfect

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Prices and catalogue on application.

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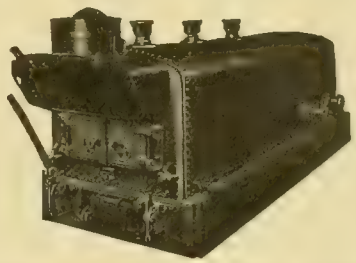

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Organ of the French Rosarians.

Published at Paris. Once a month with colored plates.

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Par Grisy-Suisnes. (Seine et Marne), FRANCE.

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This is the British Trade Paper, being read weekly by all the horticultural traders: it is also taken by over 1000 of the best continental houses.

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Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

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JACK: "Did you say that slipping a Glass Repair Clamp over a cracked glass will repair the pane?"

JILL: "Exactly, and don't you forget it."

$1.00 a 100 by dealers or by

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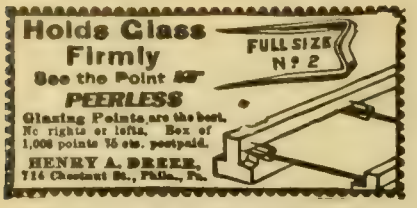

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$1.00 per 100 by dealers or by

A. KLOKNER, WAUWATOSA, WIS.

Minnesota State Florists' Association.

The monthly meeting was postponed from February 16 to 23. The night being stormy the attendance was smaller than usual, but this was more than made up by the enthusiasm shown by those present. A. Swanson gave a very clear explanation of the word "rarity" as used in connection with judging plants and on request agreed to furnish a set of rules to be used in connection with the cards in judging exhibits.

The state fair committee reported the prospects poor for receiving increased premiums or additional space for exhibits at the next fair. Messrs. Olson, Swanson and May were appointed a committee to confer with the St. Paul Institute of Arts and Sciences and endeavor to enlist its co-operation and assistance in holding a fall flower show. Carl Haugen was awarded a diploma on Princess of Wales violets scoring 96 points and a certificate of merit on three distinct varieties of cyclamen scoring 83 points. E. Nagel & Son were awarded an honorable mention on Lawson and Winsor carnations. The next meeting of the association will be held Tuesday evening, March 16, at the hall, 510 Snelling avenue, St. Paul. Mr. Frasier of the State Agricultural School will address the meeting on "Fertilizers."

S. D. DYSINGER, Sec'y.

Attention!! Glass Buyers!!

Buy Now. Next Week May Be Too Late

Prices have advanced at factories, but we still have a large stock of fine quality **GREENHOUSE GLASS** bought on old basis, and which we are offering this month at ATTRACTIVE PRICES.

If you do not need glass at once, you can send a cash deposit with order, and we will reserve the glass for you.

Our Prices on Hotbed Glass Will Surprise You.

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,

Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

Don't Buy the "Just as Good" Kind

Insist upon "the best" brand

Greenhouse Glass

Made by the

World's Largest Producers

Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

AMERICAN WINDOW GLASS CO.

Farmers' Bank Building, PITTSBURG, PA.

ADDRESS

Sunlight Double-Glass Sash Company

929 East Broadway LOUISVILLE, KY.

The double layer of glass does it

Lets in the light always.
Never has to be covered or uncovered; no boards or mats needed.
Retains the heat, excludes the cold.
Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
Ask for catalog A. It tells all about Sunlight sash.
Special catalog for greenhouse material.

The James H. Rice Co.

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GREENHOUSE GLASS

A SPECIALTY.

Window Glass, Paint, Putty, etc.

Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

Long Distance Phone, Central 6004.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

For St. Patrick's Day

Use *Emerald Green Carnation Fluid.*

It has no equal. $1.00 per quart by express. (Full directions free with each quart.) For sale only by us.

For Easter

Write us about your needs. Our stocks are complete. All NEW GOODS.

CATALOG FREE.

Green and Yellow Carnation Fluid

Buy the genuine article from **Mrs. Beu, the originator.** $1.00 per quart. Cash with order. Can also be had in powder form enough for one quart, $1.00. The Yellow Dye is the latest thing out.

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CALENDERS, POST CARDS, ETC.,

Wood Labels and other supplies.

Send for Catalogue.

VREDENBURG & CO.,

ROCHESTER, NEW YORK

Kalamazoo, Mich.

The Lenten season is having its effect as trade has dropped off, but this is always the case. March opened with glorious spring weather which helps the trade some. The quality of stock is excellent throughout the market. Carnations are coming in so heavily that they are accumulating in spite of the best efforts of the wholesalers. American Beauty roses have increased largely so that prices have declined about 30 per cent. The cut of Bride, Bridesmaid, Killarney and Richmond has so increased that all grades are cheaper and the short stock has suffered the most. Bulbous stock is in good supply and selling at prices that can hardly be profitable to the growers. Lily of the valley, violets, sweet peas and freesias are abundant. Lilies are also very plentiful.

FEBRUARY BUSINESS.

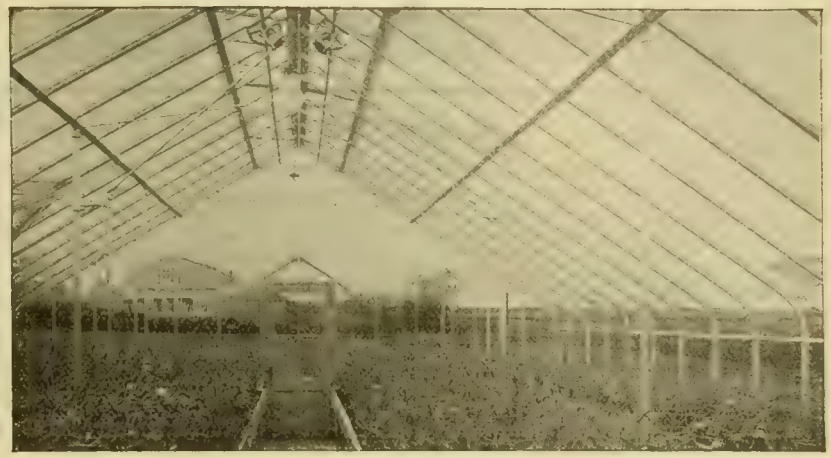
February was an excellent month. Roses were in light supply and commanded excellent prices. St. Valentine's day was much better than last year and made a good record and Lincoln and Washington's anniversaries each contributed their share.

NOTES.

H. A. Fisher Co. reports that wholesale orders came in so fast last month that many orders had to be cut in two on account of goods being so scarce. H. A. Fisher has been under the weather for the past week and expects to go to Mt. Clemens for about 10 days. Jack Fisher, formerly manager of this company, is now in Battle Creek, in charge of the branch store.

The Central Nursery & Floral Co. is doing a nice business and advertising quite freely in the daily papers.

Burt & Coggan of Battle Creek, report business good. H. F.



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A heavy coat of glistening aluminum paint is given to all the interior iron parts. A paint that will not crack, peel off, mildew, or lose its lustre and that lasts for years. U-Bar houses are the simplest, strongest, lightest, most attractive, enduring and producutive houses built, and cost less to maintain. The ideal construction for private estates, parks, public institutions and florists' showrooms.

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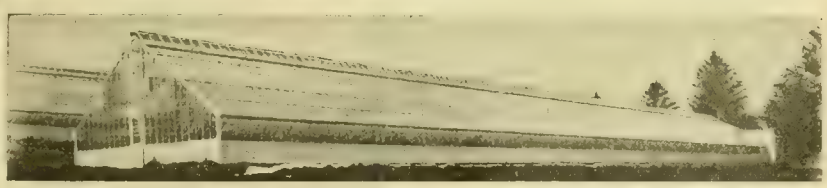
DESIGNERS AND BUILDERS 1 MADISON AVE., NEW YORK



Get in Line--Now is the Time

IT is bound to cost you more to build in the near future. Save your money by building now. Give us a chance to estimate. We furnish plans free with all orders for materials.

Hitchings & Company

1170 Broadway New York

Use our patent Iron Bench Fittings and Roof Supports.

THE JENNINGS IMPROVED IRON GUTTER.

IMPROVED VAPORIZING PANS

For Tobacco Extracts, etc. Send for Circulars.

DILLER, CASKEY & KEEN, S. W. Corner Sixth and Berk Streets, PHILADELPHIA.

VENTILATING APPARATUS.

Louisiana Red Cypress

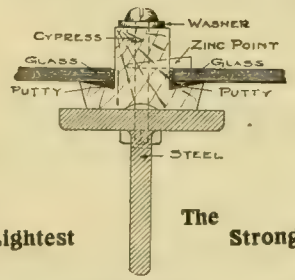
As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress, we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

The Payne Steel "T" Bar Greenhouses



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Half full Size.

HOUSES of this type constructed with both curved glass eaves and straight glass eaves. Least amount of shadow. Least amount of wood. No drip. Greatest durability.

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Have You Heard About the Sash Bar Hinge?

It is the only hinge to use on your greenhouse if you have ventilators opening at the ridge.

Write us, and we will tell you about it.

JOHN C. MONINGER CO.
CHICAGO
113 E. Blackhawk Street.

Brampton, Ont.

The Dale estate's elaborate shipping rooms were the center of attraction March 5, when the firm gave a supper to their employes, and the growers, under the direction of W. G. Peacock, provided an entertainment of a very high order. About 150 employes, wives, and sweethearts, partook in the merrymaking and did justice to the supper so nicely got up by Mrs. E. Dale. We consider this kind of gathering worthy of imitation, as it brings the men into closer contact with one another, and gives them a good feeling towards their employers. The Dale Estate provides trade papers, newspapers, magazines, etc., for the use of the employes, as well as a fine recreation room suitably furnished. Manager T. W. Duggan is to be congratulated on his thoughtfulness for his men by whom he is held in high esteem. C.

Lent seems to interfere less this year than usually with the quantity or quality of the cut flower business. The Dale Estate stock has picked up after the heavy Christmas clearance, and although it is difficult to supply the trade with carnations in all grades, the rose crop is exceedingly good for the time of year. P.

THE FOLEY MFG. CO.

CHICAGO.

Completely Equipped with Up-To-Date Machinery for the MAKING OF MATERIAL FOR

GREENHOUSE CONSTRUCTION

FROM A FULL SUPPLY OF THOROUGHLY SEASONED LUMBER.

Send your sketches to our draughtsmen for completion and suggestion. Permit us to figure your proposed work large or small. We Guarantee Our Prices Will Save You Money.

Foley Ventilating Apparatus Is the Best.

Is simple in erecting. Is easiest of operation. It will last a life-time. Its price is the lowest. Will ventilate any size house. Prices and circulars on application.

Our 1903 Catalogue Greenhouse Material sent postpaid on request.

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Send Your Advertisements Early.

CROSS AND CROWN.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, MARCH 20, 1909.** **No. 1085**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909, ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.

ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect.

The Difference.

"A primrose on the river's brim
A yellow primrose was to him"—
So, in his idle hours,
Old Wordsworth sang, but, oh, the rose
That in the florist's window grows,
Means all the money in your clothes
If Maud is fond of flowers!

The Rose.

"When nature shaped her rustic beauties
The bright-eyed daisy, the violet sweet,
The blushing poppy that nods and trembles
In its scarlet hood among the wheat

"She paused and pondered; and then she fashioned
The scentless camellia, proud and cold,
The spicy carnation, freaked with passion,
The lily pale for an angel to hold.

"All were fair, yet something was wanting
Of freer perfection, of larger repose;
And again she paused; then, in one glad moment,
She breathed her whole soul into the rose."

American Rose Society.

Tenth Annual Meeting, Buffalo, N. Y., March 17-19.

OFFICERS ELECTED:

August Poehlmann, President. | **Benjamin Hammond, Secretary.**
F. R. Pierson, Vice-President. | **Harry O. May, Treasurer.**

NEW YORK NEXT MEETING PLACE.

A Great Show of Eastern Cut Blooms.

The display of cut flowers at the tenth annual exhibition of the American Rose Society held at the Iroquois hotel, Buffalo, N. Y., March 17-19, was of exceptional merit. Only two of the western growers staged exhibits, the Poehlmann Bros. Co., and Bassett & Washburn, both of Chicago. It was felt as a great disappointment, however, that there was not a single rose plant in the show. It was claimed by some of the growers that exhibition plants were backward this season on account of the dull, sunless weather, which appears to have been general east and west.

The F. R. Pierson Co.'s magnificent display of White Killarney was the feature of the exhibition. About 500 superb blooms were artistically arranged in seven handsome glass vases on three round tables, plants of nephrolepis being used as a groundwork. The vases were shipped from Tarrytown specially for the occasion and this exhibit demonstrated beyond doubt that it pays to spend a little time and money for effective display. The two adjoining dining halls of the Iroquois hotel afforded ample space for as many more exhibits and the courtesy of the hotel staff and the local trade left nothing to be desired. The judges in the general classes were Peter Bisset, Geo. Asmus and Lawrence Cotter, while A. Farenwald, Chas. Guenther and A. Benson scored the novelties.

The Business Meeting.

President Poehlmann called the first session to order soon after the schedule time. There was a good attendance and much interest was taken in the proceedings. The reports of the various officers having been presented, the name of Peter Crowe, Utica, N. Y., was added to the list of life members. F. R. Pierson on behalf of the Horticultural Society of New York and Charles B. Weathered, representing the New York Florists' Club then presented invitations for New York as the next meeting place and these were accepted.

A brisk discussion followed on premiums offered for specific exhibits, some claiming that such prizes should revert to the society for general use when not awarded as the donor intended, while others held that the donor should retain the right to name the object for which his premium may be awarded at future exhibitions or withdraw it altogether if he so desires. The subject was referred to F. R. Pierson, J. A. Valentine and A. Farenwald as a committee for consideration. The matter of uniform vases for competitive exhibits brought out considerable discussion, but the question was left unsettled for the present.

H. A. Barnard, representing Hugh Low & Co., Bush Hill Park, London, Eng., was next called on for a few remarks, and referred in glowing terms to the superiority of American indoor roses and carnations. Mr. Barnard thought, however, that English outdoor roses were without a rival, but was speedily put right on this point by a number of those in attendance, Connecticut, Massachusetts and the Pacific coast being cited as producers of outdoor stock of the highest quality.

In the election of officers, President Poehlmann, Secretary Hammond and Treasurer May were chosen to succeed themselves, and F. R. Pierson was elected vice president. Wm. F. Kasting and Peter Bisset were elected members of the executive committee for three years, the latter succeeding himself. The session closed with W. W. Coles' excellent paper, "Why so Many Small Growers Fail With Roses."

Thursday's Proceedings.

On assembling on Thursday morning, Secretary Hammond presented the report of the judges, which was adopted.

F. R. Pierson, for the committee on the regulations of premium offers appointed the previous day, presented the following: "Your committee recommends that no special prizes should be advertised until they have been deposited with the society, and that all special premiums offered should be accepted on condition that they revert to the premium fund of the society unless the donor otherwise specifies." The recommendation of the committee was adopted.

Peter Bisset read a telegram from Mrs. G. M. Hubbard, Washington, D. C., offering the society a gold medal free of all expense, the medal to be awarded to the raiser of the best new rose every five years. The offer was accepted with a hearty vote of thanks and Mrs. Hubbard was tendered the honor of life membership in the society.

G. D. Leedle, Springfield, O., next presented his able paper on "Roses as Popular Home Flowers and How to Grow Them." Leonard Barron, New York, on behalf of the publishers of the Garden Magazine, tendered the society three medals, gold, silver and bronze, to be offered for the best new types of garden roses or for progressive work in that direction. The offer was accepted and referred to the executive committee.

The excellent paper on "The Rose Garden," by J. F. Huss, Hartford, Conn., was then read by President Poehlmann in the unavoidable absence of the author.

Resolutions on the deaths of E. V. Hallock and L. M. Noe were presented and adopted previous to the banquet tendered the visitors by the Buffalo Florists' Club at the Iroquois hotel in the evening, instead of Friday evening as scheduled. A telegram was sent to Robt. Craig, Philadelphia, Pa., congratulating him on the sixty-second anniversary of his birthday. The banquet was followed by Leonard Barron's illustrated lecture, which closed the business of the convention.

President Poehlmann's Address.

Following previous custom, it devolves upon me to address you at this, our tenth annual convention. Through the courtesy and cordial invitation extended to this society by the Buffalo Florists' Club, represented by its able leader William Kasting and his associates, we find ourselves here to-night. What these men have accomplished to make us feel welcome, no one can fail to see.

Buffalo, lying as it does, almost midway between the large rose growing centers of the east, west, north and south, is ideally situated for our convention and exhibition. It is only eight months ago, since the Buffalo Florists' Club, in conjunction with the Niagara florists, participated in entertaining the Society of American Florists most royally, ample proof, that we are indeed in the hands of friends, who appreciate our coming, and whom we in turn can but thank most heartily for their brotherly, generous, hospitable spirit.

Here then, are past friendships renewed, new friendships formed, and opinions exchanged,—all of which serve to make us enjoy this old world, and enrich us in the knowledge of the beautiful. From these gatherings, inspirations are given to something more lofty—more divine; something in the future superior to what we had heretofore. Here we find the real enthusiast, wrapped in wonder at the progress made in the growing of the queen of flowers, the rose.

Who, that has any material interest or love for roses, can help but admire the beautiful specimens arrayed here for our inspection. Who of you, lovers and growers of the rose, but came to this gathering with a certain object, that object—to improve yourself in your chosen profession. In the matter of outdoor

August Poehlmann.
President American Rose Society.

roses and other subjects, so many valuable suggestions have been submitted in former conventions, which appear in the annual bulletins, that I hardly know what more to offer.

To my mind, the field for and sale of outdoor roses is unlimited wherever

F. R. Pierson.
Vice-President-Elect American Rose Society.

good rose soil is located or obtainable. Study well your varieties, their habits, wants, and hardiness, the soils and localities wherein they will thrive best, and then proceed. Comparatively little has been done in this line, when we consider the immense, unbounded resources at our hands, and the society's aim, which is: "A rose for every home, a bush for every garden."

This branch of the work is left almost entirely to the nurserymen, many of whom have established immense businesses and who, like the commercial rose growers, are ever on the alert for something new with which to delight their customers, and thereby advance their own interests. By placing the roses best adapted to the different localities, past the experimental stage where good results are obtained, you will do much toward discrediting the doubts and fears of the investing public, and create an unprecedented demand.

In this connection, it occurs to me that a good plan to bring outdoor roses more prominently before the public, would be to obtain permission from public officials to plant plots or individual bushes in public squares, gardens or parks, without charge, showing the names of the varieties and of the party who supplied them, in small yet plain letters. One of the principal attractions at these annual exhibitions is to see these new creations of the floral world, these new wonders of the rose kingdom. We see, we like, we buy, we try. They make good, or we lose out. On first failure, we may try again.

A race-horse is good only when he makes good. He may be a good looker but be out of the running. So with many of our pets. They are relegated to the background if the renumeration is not sufficient. The ambitious grower is never satisfied to leave the trial of new varieties to his neighbor, but will try himself to find a winner. Often these new things turn out pretty hot ones. It is quite natural that there are many disappointments. It cannot be otherwise. One winner, however, will cover the shortcomings of a multitude of raw ones.

The breeders, hybridizers, and introducers of new roses deserve encouragement and support, even if they manage to put one over occasionally. New varieties put life in the business. Keep on striving for high standards. The trade demands it. In the cut roses, a number of new delegates are in the field looking for recognition. Notable among these, are White Killarney and My Maryland. Both will be extensively grown. The society offers ample reward to its exhibitors, and deals fairly with all new introductions.

Your various committees have faithfully attended to, and accomplished the work imposed on them. Your secretary in particular has been indefatigable and conscientious in the full performance of his duties, to which I can attest by reason of his voluminous correspondence, and deserves the sincere thanks of this society. I would like to impress once more on all interested in the sale and culture of outdoor roses, the need of disseminating reliable knowledge among the public.

During our meetings a number of very instructive essays will be read by men experienced in their lines, and which will be entitled to our careful thought and consideration. Discussion, which usually follows, will open up new sources of knowledge and give to us new ideas. Of one thing we are certain—we are progressing with the times. Let us forever keep on doing so.

To further the society's work and aim, we want it to be known, that all lovers of the rose are welcome to our ranks. The annual bulletin, which contains much valuable information, is published at considerable expense by the earnestness and care bestowed on the various subjects.

To place the society on a solid financial footing, we ask you to be with us. Annual membership dues are $3. Life membership $50. To the Buffalo Florists' Club and associates, who have provided the society with workers to carry on this exhibition, and have looked after the society's welfare, I wish to again express our hearty thanks.

Treasurer May's Report.

The following is the report of the treasurer of the American Rose Society for year ending March 12, 1909. In addition to the general account given below, four life members have joined the society, making a total of 59. The money of the life membership is added to a permanent fund, the interest from which is used in current expenses.

Receipts	$2,152.07
Disbursements	1,968.93
To balance on hand	$183.14

Permanent fund, $2,950.00.

Secretary Hammond's Report.

No society could have a more loyal set of backers than has the American Rose Society. The past year has seen the society sustained by a number of men who claimed the privilege of assisting in meeting all expenses. President August F. Poehlmann has taken the keenest interest in affairs. Separated by distance as a society such as this is it requires a long view to keep all matters together and moving. The schedule of prizes has been carefully revised by the committee appointed by the president, J. N. May, Robert Simpson, Alexander Montgomery, Frank R. Pierson and Benjamin Hammond. The first schedule was made up 10 years ago and remained in force until this season. Of this schedule Edwin Lonsdale, of Girard college, Philadelphia, says it is good for five years.

Last November, during the National Flower Show in Chicago, a general meeting of the Rose Society was held at which time the sum of $350 was pledged by the gentlemen then present as a fund for the prizes to be offered this spring. At that meeting the important matter of ways and means was talked over freely. The offer of medals as prizes of honor was advised and stress was made of the propriety of making use of the society's medals. The mint of the United States at Philadelphia has the society die. There never has been a gold medal struck the value of which would be determined by its weight when struck. A few silver and bronze medals were once made. These have been distributed except one bronze medal.

The secretary would suggest as one practical way to largely extend the usefulness and membership of this society that one silver and one bronze medal be offered as a rose prize to local horticultural societies to be known as the American Rose Society's prize for the best display of roses without any regard to variety at the local show. But that each society applying for the same, shall have at least one regular and two associate members of the American Rose Society. This idea is advanced as the outcome of the discussion at the meeting referred to above. To put this to an available test I am authorized by a gentleman to say that he will pay for six silver and six bronze medals to be used as a start in this direction to popularize our society.

The standing of the American Rose Society seems to be growing, and it should be, for the rose as a commercial flower is the most commanding. The rose growers of America should recognize the society's essential value. President Poehlmann, in response to a demand by interested parties, has appointed a committee to pass upon the very important matter of registration of new roses. The chairman of that committee is Ex-president Robt. Simpson. This committee would give us prestige as a regular standing committee as large interests may come before it for consideration.

The annual bulletin of the society was issued after the close of the calendar year 1908, thus bringing all business up to the year's end. This book tells its own story. The cost of it was a little over half covered by the advertisements furnished by a few at a rate of $10 for each page. Without the least taint of discourtesy the secertary would bring a matter to notice, that is a request that when a prize is offered in money that it be sent in as soon as possible and, furthermore, if named for a special purpose and not so won, it may revert at once to the general fund to make good the total amount always required for the regular prize list.

Our life membership has not increased the past year. Our invested fund has, however, reached the total of $2,950 in the hands of our efficient treasurer Harry O. May. We have tried to keep in touch with each of our members on record but so far the responses to the annual due bills have not been as full as is desirable. We have received notice of the death of Miss C. A. Pryer of New Rochelle, N. Y., one of our earliest members and constant supporters.

At the last annual meeting the subject of a rose journal was one of moment. The tentative effect to start it into being with the cost defrayed by an advertising card was side tracked by the proposition to launch and support it by subscription for a year as a trial. This plan never materialized. In the meantime the Gardeners' Chronicle, of New York, has offered to give a magazine page each issue for the use of the American Rose Society as its popular paper. I hold a little money sent in for the rose journal project which will be returned.

The show before us is the tenth annual exhibition. Those previously held were in New York, Philadelphia and Boston. In these cities the exhibition was held for succeeding years, in Washington and Chicago once and now in Buffalo, the metropolitan city of western New York, in as fine a hall as the best we have had.

ROSE WHITE KILLARNEY.

The secretary herewith desires and properly so to extend his thanks for the various courtesies and aid he has received from many persons in the interest of the society and most particularly to the editors of the AMERICAN FLORIST, The Florists' Exchange, The Florists' Review and Horticulture. If the Rose Society has fame it is largely due to the friendly support received without cost from these publications.

The Awards.

Vase of American Beauty, 50 blooms, first prize offered by Traendly & Schenck, New York.—Brant & Hentz Floral Co., Madison, N. J., first; Myers & Samtman, Philadelphia, Pa., second.

Vase of Killarney, 50 blooms, first prize offered by Erie Floral Co., Buffalo, N. Y.—Adolph Farenwald, Roslyn, Pa., first; Bassett & Washburn, Chicago, second.

Vase of Richmond, 50 blooms, first prize offered by F. R. Pierson, Tarrytown, N. Y.—E. Towill, Roslyn, Pa., first.

TWENTY-FIVE BLOOMS—OPEN.

American Beauty (stems not less than four feet nor more than six feet). Prizes offered by W. J. Palmer & Son, Buffalo, N. Y.—Bassett & Washburn, first; E. Towill, second.

Bride.—Poehlmann Bros. Co., Chicago, first; F. Burki, Pittsburg, Pa., second.

Bridesmaid.—Peter Crowe, Utica, N. Y., first; F. Burki, second.

Cardinal.—Poehlmann Bros. Co., first.

Rhea Reid.—Wm. H. Elliott, Brighton, Mass., first; Peter Crowe, second.

My Maryland.—Robt. Simpson, Clifton, N. J., first; A. N. Pierson, Cromwell, Conn., second.

Mrs. Jardine.—Robt. Scott & Son, Sharon Hill, Pa., first; E. Towill, second.

Mrs. Potter Palmer.—Poehlmann Bros. Co., first.

Perle des Jardins.—Poehlmann Bros. Co., second.

Mme. Abel Chatenay.—Robt. Simpson, first; Poehlmann Bros. Co., second.

Ivory.—United States Cut Flower Co., Elmira, N. Y., first.

Co., Philadelphia, Pa.—Adolph Farenwald.

Twenty-five American Beauty. Prize $25, offered by The Pulverized Manure Co., Chicago.—E. Towill.

Special prize of $25 offered by the Lakeview Rose Gardens, Jamestown, N. Y.—Robt. Simpson.

SMALL VASE OF TYPICAL KILLARNEY BUDS.

Killarney.—Poehlmann Bros. Co., first; Peter Crowe, second.

Richmond.—E. Towill, first; Wm. H. Elliott, second.

Best and largest collection of teas and hybrid teas, six or more varieties, not less than 12 of a kind. Prizes offered by Robt. Simpson, Clifton, N. J.—Gude Bros., Washington, D. C., first.

SPECIAL PRIZES.

Silver vase, value $40, offered by A. N. Pierson, Inc., Cromwell, Conn., for 100 Richmond.—Adolph Farenwald.

For the best arranged vase or other receptacle containing not to exceed one dozen roses (American Beauty barred). No foliage or other accessories except rose foliage permitted. The competition to be open to all florists and employes. Prize $10 first; $5 second. Both offered by J. A. Valentine, Denver, Colo.—Wm. H. Grever, first; E. A. Slattery, second.

Twenty-five Killarney, pink or white, prize silver cup, value $25, offered by Welch Bros., Boston, Mass.—Waban Rose Conservatories, Natick, Mass.

Thirty-six My Maryland, stems not to be less than 20 inches long on single growth. Prize $25, offered by A. Farenwald, Roslyn, Pa.—Robt. Simpson.

Twenty-five My Maryland. Prize $10, offered by John Cook, Baltimore, Md.—Robt. Simpson.

Fifty Killarney. Prize a silver tray, value $25, offered by Henry F. Michell

Special cash prize of $10 in gold offered by E. C. Ludwig, Allegheny, Pa., for 36 Killarney.—Fred Burki.

NOVELTY.

White Killarney, exhibited by the Waban Rose Conservatories, scored 87 points.

Miscellaneous Exhibits.

F. R. Pierson Co., Tarrytown, N. Y., light and dark pink sports of Winsor carnations, a Prosperity colored sport of White Lawson, crimson seedling No. 60 and large pink, serrated flower, with tremendous stem (No. 50).

W. A. Manda, South Orange, N. J., South Orange Beauty, Cherokee and other roses, also Pink Pearl carnation.

Chas. Sandiford, gardener to J. J. Albright, Buffalo, N. Y., made a large display of splendid cyclamens.

Bassett & Washburn, Chicago, made a fine exhibit of O. P. Bassett carnations.

Joseph Heacock Co., Wyncote, Pa., Dorothy Gordon carnations, a fine vase.

Baur & Smith, Indianapolis, exhibited a fine vase of Shasta carnations.

Bertermann Bros., Indianapolis, Ind., J. Whitcomb Riley carnations.

Notes.

H. A. Barnard of Low's of London, England, will not soon forget his escort to the Buffalo station enroute to Toronto, the delegation including President Poehlmann of the American Rose Society and Mayor Breitmeyer of Detroit.

The S. A. F. delegation arrived from Cincinnati Wednesday morning including J. A. Valentine, Frank Traendly, Geo. Asmus and Eugene Dailledouze.

August Poehlmann was the first officer of the society to reach the convention city, closely followed on Tuesday by Benj. Hammond.

W. F. Kasting and J. Rowland Cloudsley were on hand all the time making things easy for the visitors.

Peter Crowe is so well pleased with Rhea Reid that he will grow it much more extensively next year.

White Killarney awakened much interest and My Maryland was frequently inquired about.

Lawrence Cotter, now of Jamestown, N. Y., was warmly greeted by many old friends.

The stately dining halls of the Iroquois hotel made a fine setting for the exhibits.

Visitors.

Geo. Asmus, Chicago.
Wm. Badgley, Chatham, N. J.
M. Barker, Chicago.
H. A. Barnard of Hugh Low & Co., London.
W. C. Barry, Rochester, N. Y.
Andrew Benson, Chicago.
Peter Bisset, Washington, D. C.
Hon. Philip Breitmeyer, Detroit, Mich.
Chas. Brown, Rochester, N. Y.
Fred Burki, Pittsburg, Pa.
W. W. Coles, Kokomo, Ind.
Lawrence Cotter, Jamestown, N. Y.
Peter Crowe, Utica, N. Y.
Eugene Dailledouze, Flatbush, N. Y.
J. H. Dayton, Painesville, O.
Robt. G. Dayton, Painesville, O.
John W. Duncan, Boston, Mass.
John H. Dunlop, Toronto, Ont.
J. D. Eisele, Philadelphia, Pa.
G. T. Elliott, Brighton, Mass.
J. A. Evans, Richmond, Ind.
A. Farenwald, Roslyn, Pa.
J. R. Fotheringham, Tarrytown, N. Y.
Frank A. Friedley, Cleveland, O.
Chas. Guenther, Hamburg, N. Y.
Carl Hagenburger and wife, Mentor, O.
Benj. Hammond and wife, Fishkill, N. Y.
Geo. Hart, Rochester, N. Y.
Jos. Heacock, Philadelphia, Pa.
A. M. Henshaw, New York.
Peter Hopman, Elmira, N. Y.
M. Keller, Rochester, N. Y.
R. G. King, Elmira, N. Y.
L. L. Lamborn, Alliance, O.
W. J. Lawrence, Eglinton, Ont.
G. D. Leedle, Springfield, O.
E. C. Ludwig and wife, Allegheny, Pa.
P. J. Lynch, West Grove, Pa.
W. G. Mackendrick, Toronto, Ont.
W. A. Manda, South Orange, N. J.
Harry O. May, Summit, N. J.
R. T. McGorum, Natick, Mass.
Alex. Montgomery, Natick, Mass.
Walter Muston, Toronto, Ont.
Frank P. Myers, Philadelphia, Pa.
O. A. C. Oehmler, Washington, D. C.
H. R. Packer, Richmond, Ind.
Anton J. Pauly, Attica, N. Y.
C. H. Perkins, Newark N. Y.
A. N. Pierson, Cromwell, Conn.
F. R. Pierson, Tarrytown, N. Y.
Aug. Poehlmann, Morton Grove, Ill.
W. Pitkin, Rochester, N. Y.
— Rooking, North Tonawanda, N. Y.
I. Rosnosky, Philadelphia, Pa.
Martin Samtman, Philadelphia, Pa.
Robt. Simpson, Clifton, N. J.
S. S. Skidelsky, Philadelphia, Pa.
Theo. Smith, Geneva, N. Y.
W. J. Stewart, Boston, Mass.
Ed. Towill, Philadelphia, Pa.
Frank Traendly, New York.
C. H. Twinn, North Tonawanda, N. Y.
J. A. Valentine, Denver, Colo.
J. C. Vaughan, Chicago.
Chas. H. Vick, Rochester, N. Y.
C. B. Weathered, New York.
P. Welch, Boston, Mass.

ILION, N. Y.—Hakes & Son have sold their business to Edward A. Baker, Jr., and thus one of the old pioneer families in the florist business here breaks its connection.

LEXINGTON, KY.—Lucien Leclere is very busy with Easter stock at his father's place of which he is manager. J. A. Keller is cutting fine roses and carnations.

SPARTA, WIS.—The greenhouse of Z. K. Jewett & Co. was burned March 9 and Alvin Clemons, aged 25, was burned to death there. It is believed that the boilers burst and started the fire. The loss is estimated at $5,000.

The Rose Garden.

BY J. F. HUSS, HARTFORD, CONN.

It may be a very unusual moment to write, when nature is in winter garb, about the rose garden; still the very name is enough for the lover, to stimulate his thoughts which bring back everything so highly interesting in the rose garden. Everyone may not care to have a garden of roses exclusively, but who among lovers of flowers would not like to have in his own garden the scene of three years ago that the rose committee witnessed here, on our place, which for private uses may be taken as a model.

But we cannot leave the rose with this notice. Grand as are the masses of roses we have occasionally met with, we have never yet seen anything even approaching our conception of the scenes of grandeur and beauty that might be worked out by the massing of the modern varieties of roses. A rose garden is now almost indispensable, either as a part, or as an adjunct, to every large and comprehensive garden. If in the original plan of a garden it cannot be conveniently worked in with the general arrangement of floral gardens, then a separate piece of ground is set aside for the purpose. This I have often seen, and always found it a most interesting spot. But apart from the immediate question, whether there is a separate rose garden or not, roses should be found plentifully in every general garden, on account of the varied forms they are capable of assuming, either naturally or by training. They are seldom out of place anywhere. What with dwarf standards and climbers, there exists ample material to adorn the most select position, or to obliterate the most awkward spots, bringing them into harmony with the general design. But what should the form of a rose garden be? I will give my ideas as briefly as possible.

FORM OF THE ROSE GARDEN.

It should be formed, if possible, on level ground, with as many beds as the space selected will allow. Such beds should be four feet wide, planted with three or four rows of plants, two feet apart, and a grass border three or four feet between beds will enable anyone to reach each plant to cut the roses without stepping into the bed. Such grass borders are very easily kept, mowing once a week with the lawn mower. At the same time this grass walk sets off the flowers to great advantage. With some 15 or 20 beds, with a double amount of well selected, best flowering varieties, say 40 plants in each bed, it will well make a very attractive collection. These beds may be in the form of a square or oblong. The rose garden can be made very attractive and artistic. All depends upon the gardener who has charge of such estates, or upon the landscape gardeners who have to make designs for a small bed or a regular rose garden. The rose garden should be surrounded with a border, of three feet, which should enclose it, of hybrid teas, a few fine standards or French briars, or of (laxa)? stock, which are the two most flexible stems for the layering in the fall. A very light wire fence with a ¾-inch iron post, with two or three wires one foot or 18 inches apart, and planted with Crimson Rambler will have an excellent appearance from the distance.

PERGOLAS.

A still further imposing scene can be obtained by forming a pergola, which can be easily constructed with ¾-inch gas pipe driven into an 18-inch cedar or locust post, eight feet high with a cross bar on the top from one post to the other, with a grass walk in between, as many of our rose members will remember having seen at our place, which was pronounced by all as a veritable paradise of roses. Such a pergola or arch should be planted with as many varieties as there are posts, or not more than two to a post, as with our advanced progress in hybridization of so many valuable climbing roses, the choice is at everyone's command, and gorgeous effects can be obtained of most bewildering beauty of plants that bring forth their blossoms at the same periods, of hybrid perpetuals, teas or hybrid teas. Again a rose garden may be laid out on a terrace, as ours is located. There may be a bank sodded or sown with grass seed. But such a bank should be in full harmony with the rest of the rose garden and should be planted with trailing roses and pinned down, making it a bed of roses. It will add greatly to the rose garden. Good taste and art should be exemplified in every detail of a rose garden. We have also a great many dwarf roses, like Baby Rambler and the midget roses that are used to form borders, especially around hybrid perpetual beds, to hide the bare ground. They are very attractive, and the result is one that will meet with the approval of every lover of rose gardens. Such sights cannot easily be forgotten.

SOIL AND MANURE.

Almost any soil will grow roses, as we see them in yards or gardens, providing a proper selection of varieties is made, and attention is given to the application of suitable manure. Roses, of course, enjoy a rich soil, but to keep adding manure to a naturally rich soil is not as beneficial as a change to chemicals such as nitrate of soda. This subject is therefore more a question of judicious manuring than selection. The golden rule is to add what the ground is most deficient in, and never to apply close, moisture-retaining manure to a soil that is naturally stiff and moist. A very dry and sandy compost may easily be made suitable, by adding a few loads of stiff fibrous loam and clay, also by manuring with fairly well rotted cow manure; while, in many cases, by adopting the opposite plan, a stiff, poor soil may be worked into equally good condition. The ideal material is fairly stiff, not too wet, and not less than three feet in depth, with a good drainage, so that after heavy showers the roots are not left in water. Such well prepared rose beds can be enriched at will. Roses will thrive perfectly well for at least eight to ten years. After that time, if still in good condition, they should be gradually transplanted in late fall, the plants well pruned out, suckers cleaned out, and the soil deeply trenched and mixed with good rotted manure, and the roses replanted, when they will thrive anew and will last for many years. But we should never lose sight of the newer varieties of roses, and supplant such older varieties as have lost their usefulness. A wide-awake gardener or lover of roses will naturally keep up with the times.

PRUNING.

Pruning about the New England states cannot be very well done before April 1, as the uncovering of the winter protection is usually begun by that date. This has been my experience. The pruning of every class of rose is a very vital operation. All useless wood should be carefully cut out and only retain the good strong canes, and hybrid perpetuals and hybrid teas are pruned alike, say one foot from the ground. You can easily retain the same height from year to year, as they should always, every year, be renewed with new canes and the old ones cut out. As to climbing roses the pruning is very different, as we keep five or six long canes around each of the posts of the arch, and keep these young ones as long as they cover the intended arch, or

ROSE KILLARNEY.

pergola, as it may be called. The old wood is cut out, but sometimes we have not enough to cause the desired effect, and a few of last year's growth are retained, and the side shoots are cut back to two or three eyes. The canes are very carefully tied up with fine willows, as the European well trained gardener uses, or with any other material as is commonly used, in such a clean way, where the strong winds will not move them from their holdings. The same operation is used to decorate a wire fence. As for the trailing roses, they are pinned down so as to cover well the bank with the low canes, and the top shoots are cut back to two or three eyes. The pruning done, the soil is at once loosened up carefully with a spade fork.

MOISTURE FOR ROSES.

One thing should not be lost sight of, and that is, to have water close and conveniently at hand. As soon as the plants begin to bring up the growth of leaves, they need to be syringed nearly every day, to keep red spider, aphis, etc., away in the dry season. This method has been followed with great success for many years. And when later the rose bug or chafer appears, slugshot is used with splendid effect, and, having the water on hand, can easily be cleaned off long before the lady of the house or the gentleman wishes to visit the roses. There is nothing more inviting than to see a clean, well kept rose garden with clean leaves and perfect flowers, but careful watchfulness has to be kept constantly over it. At the beginning or middle of June a good mulching with short stable manure of two or three inches thick, is good, as roses like a cool footing, and this is extremely beneficial, preventing the soil cracking or drying out. It is also the means of retaining good foliage and better perfection of roses. When the flowers make their appearance great care should be taken of the common enemy, the rose bug, which is a very troublesome one in most localities and the insects must be picked up regularly. The withered flowers must also be carefully picked up, and no petals left on the ground. This is a strict rule about well kept rose gardens. A watchful eye should be always kept on budded roses, as they often throw up suckers, which must be at once removed, or mischief will be the result. I once saw at Lenox, a fine rose bed, that was neglected for two years, and on the third year there was nothing left but suckers, which had outgrown all the roses. At the beginning of August the plants will have thrown root canes from three to five feet high. These should be cut back to three feet. This simple light pruning will strengthen the canes for the following flowering season.

WINTER PROTECTION.

Winter protection, in this cold heartless latitude, plays a very important part. One who comes from south of New York would not think of protecting roses, as experience has taught us, all over the New England states, except where near salt water. At the end of November or December, or in fact as soon as we have heavy frost, but before such frosts arrive, standard roses are detached from their stalks and the crown is bent down, a hole in the ground made and the crown laid in it and partly covered up with soil, with two cross sticks to hold them down. All ramblers are laid down in the same manner. Hybrid teas and hybrid perpetuals are bent half down, tied over each other, and, as soon as heavy frost is in sight, all the rose garden is covered with a light layer of leaves, and long straw manure or bad hay, covering the beds of climbing roses as well. One year we did not cover our ramblers, and in the spring they were all frozen to the very bottom.

Why Small Growers Fail With Roses.

BY WALTER W. COLES.

In visiting floral establishments we find that not over 20 per cent of the small retail growers make a success of roses. In fact, by far the larger number do not get enough out of their rose space to pay for the fuel. I refer only to those who grow roses, carnations, and a general assortment of flowers and plants in a limited area. There are quite a number with but 10,000 to 25,000 feet of glass, who make a specialty of roses and whose stock is a credit to many of the larger growers. But this note is for the small, all around grower.

The first handicap is a lack of suitable conditions. Carnations, bedding plants and a general line of stock are grown in the same house, in the same temperature, with success, varying from fair to good. Then roses are attempted. Under such conditions they cannot be kept at the proper temperature without hurting the other stock. They cannot be properly syringed on account of soaking other stock close by, and red spider gets a hold. Doors left open cause a draught and start mildew. On account of spoiling tender stock in the house, fumigating is put off and aphis gets a hold. Shading is put on for other stock and roses suffer under their part of it. Under such conditions it is practically useless to try to grow roses. If a separate house can be devoted to roses the above conditions can be eliminated. But even then there are usually many difficulties.

A night fireman is seldom kept and while the temperature may be kept right in the daytime it is allowed to fall at night. Then the grower usually has so many other duties that the houses are neglected. Added to this is a lack of knowledge of rose growing. The grower knows that he should plant early in June but it is put off on account of the press of other work. On such places the grower usually puts in a batch of cuttings, roses, carnations, geraniums, etc., in January or February. When rooted they are usually potted and grown in the same house with a miscellaneous lot of plants. The result is usually a weak lot of plants covered with red spider and mildew. The result is, in September or October, when the plants should be strong and healthy they are weak. To make matters worse a few roses are needed during the summer for funeral work and the life is cut out of the plants to save (as the grower thinks) expenses. A few roses are usually cut in October and November at a time when they can be bought from $2 to $4 per 100, but from December 1 to April 1 when roses are wanted and usually scarce, the plants are standing still and do not return enough to pay for the fuel it takes to keep them alive.

THE REMEDY.

In the first place the small grower or retail florist who uses but an average of 75 to 100 roses per week should not try to grow his own cut roses. He would make more money by buying them from some good grower, but those who feel that they must or will grow their stock should plant nothing but strong, healthy, clean plants. If they cannot be grown, buy them and plant them in good rich, new, mellow soil, some time during June. If the house is shaded, even if only slightly, see that it is removed.

Repair all broken glass and as soon as any is broken or blown out replace it at once. From July 1 to September 1 give the plants plenty of air and water at all times. There are more roses ruined during the summer for want of water and air than from any other cause. It is money well spent to hire sufficient help in June to plant roses, as one month in June and July for roses planted on a bench is worth three times as much as in October and November. Keep the buds pinched off until the plants are strong and healthy and breaking freely, and at this point a top dressing of cow manure will be beneficial. Never allow the temperature to fall below 56° at any time.

Do not grow too many varieties. For the small grower or beginner we recommend but three kinds: Bride, Bridesmaid and Richmond. Don't try American Beauty; let the specialists attend to this kind. If roses must be grown in a small way give them as many of the advantages that they receive on larger places as possible. Acquire as much knowledge as can be gained from reading and practical experience and then see how large a per cent of this knowledge can be put into practice.

THE ROSE.

Rose Kaiserin Augusta Victoria.

This rose is especially used for summer. It should be propagated in the fall when the wood is in its best condition; October or November is about the best time. These cuttings should then be potted up in December or early in January, and by growing them along slowly repotting into larger sizes in the spring when they should be planted out in the field similar to carnations.

They should be carefully cultivated and pinched back occasionally in order to make strong, bushy plants. Then along in fall after the first frost has driven the sap back in the ground the plants should be potted into 4-inch pots and placed in a cold cellar. We then take the plants up and heel them in until about March 1, when they can be planted in the bench. By giving the young plants this treatment, they are in fine condition to be forced and will produce extra strong plants. If the plants are grown through until early in December when they should be dried off and the temperature allowed to drop slowly below freezing, driving the sap back into the roots, they can then be rested until about March 1, when it is better to cut them back and start them up again.

The second year Kaiserin will produce better and longer stemmed flowers than the first year, and after about three years in the greenhouse, we have found it advisable to throw them out and replant, as by that time the wood gets so large and tough that they do not produce as well as younger stock. We have heard of some growers who dig up the plants December 1 and heel them in, replanting them in the benches about March 1, but have never tried this plan ourselves. We doubt if Kaiserin will pay as well to grow as other roses in the same house, provided the house is a first class rose house. If the houses are not suitable for forcing flowers during the winter we should of course use them for the summer stock.

The planting of Kaiserin out in the field the first summer may appear a waste of time, but experience has proven that the plants treated in this manner gain strength and vitality and will pay well the extra trouble of transplanting, cultivating, etc., by the extra strong flower shoots the plants throw up. Kaiserin is no good as a winter bloomer. It is a loss of time and money to force the plants at that time as the results are very poor.

C. L. WASHBURN.

About Bull-Head Roses.

I am not a rose grower, and do not propose to give any directions for growing deformed flowers, because most rose growers are blessed with as many bull-heads as they are willing to own up to; and it may not be out of the way to say that, when they have all perfect flowers, the fact may be attributed to bull-head luck. I think it is fair to say that poor crops are usually due to an insufficient development of the head on the grower's shoulders, be it a bull, or otherwise.

I visited a beautiful plant of rose houses a short time ago, where the cuttings of American Beauty, Perle and some other varieties have been highly satisfactory and profitable, so much so, that the respective manager's hat-band became a trifle strained—an excusable phenomenon under such conditions.

On entering the houses, I found them beautifully clean and well-kept according to modern usages. There was not a bull-head in sight, but I noticed some conditions which suggested them, and asking the foreman, he admitted having quite a number of late. Now, I always find these same conditions exist where bull-heads develop, and therefore suggest that they are at least a dominant factor in their cause. One of the symptoms is the development of green moss on the surface of the soil. Moss of this general character is found in places where a shallow footing is required; although the soil may be deep this moss does not penetrate. It grows on shingled roofs, on the north side of trees, and shady places wherever the substance beneath is not well aerated, that is to say, it is not dependent upon vapor rising through the soil. The moisture for moss seems to be fed from the top and is not sucked up from the lower ground. We never find roses growing wild where we find the mosses, or, we don't find the mosses surrounding wild roses.

I notice that rose-growers look upon the moss as being harmful, and rake it loose to throw it away. This is "love's labor lost." The moss, in itself, is not harmful. You may carry moss to a clump of wild roses daily, where it will wither and decay, adding some fertility to the soil. It is the conditions which produce the moss, that are detrimental to the rose. If the moss is made to perish by simply changing environmental effects to suit the rose the problem will be solved. Roses and moss cannot thrive under like influences; as well keep throwing out ice as it crystallizes on water, to prevent plants from freezing; you cannot raise the temperature by so doing.

The moss indicates an atmosphere well laden with moisture most of the time. The foliage of the rose, in normal condition, has a glossy, metallic surface, indicating its preference to keep dry, but to endure water occasionally without becoming wet; but too much of it, as it does with a gossamer coat, will penetrate and disarrange some of the elements essential in the plant's development. Black spot usually shows itself just in time to get the blame, whereas it is merely a consequential result of preceding conditions. Don't brand this black spot as an enemy, but as Nature's unmistakable sign of improper care. Proper treatment of the rose renders it immune to all forms of disintegration, which we call diseases.

Physicians are today working a large amount of high-priced graft on the public for fighting tuberculosis, but few people are, however, laboring to remove its cause. Now, the rose, like any bush or tree, is so constituted as to require its assimilation of the 10 chemicals (with the exception of carbon) at the roots, no matter how bountiful a supply there may be on the bench. Their tiny rootlets are dependent on humus for the dissolution of the chemicals, and vapor rising from the soil just below them. Neither of these can operate without air. Water can be endured during its absorption by the sub-soil from above during rain, or spraying; its utility is in the nature of a reservoir beneath the plant, to supply the vapor from below, so delicately as not to exclude the air.

When the top soil is saturated the air is excluded, and normal growth is temporarily arrested; therefore, the less it is done the better. But there are steam pipes below these benches, which force the water out much more rapidly than the roots are able to take it, therefore, normal conditions never exist but temporarily. Sometimes the working roots near the bottom of these benches become so dry that they perish, and the plant balance of root and foliage becomes unequal. This is a condition which renders the foliage susceptible to some form of deterioration, and remains so for several days until new root buds develop. This is the reason why roses frequently start well, and flourish during the first six months after being benched; excessive feeding of manure is usually no remedy.

I noticed the ground floor of the houses very dry; what was an open field a year ago is now dried to a crisp, and cracks three or four inches wide gasping for moisture. Dead soil (dried) and dead water (boiled), do not exist under environments favorable for roses. Mother Earth is the best regulator of humidity we know of. Her function is to absorb the moisture from the atmosphere when there is an excess, and to give it out when there is deficit, the temperature being a governing factor.

I suggest that if the ground be kept moist enough to maintain a covering of tradescantia, the requisite humidity would be maintained without such frequent drenching of the surface soil on the benches; this should be almost dry most of the time. The assurance of good management will be the non-appearance of moss. Another factor of vital importance is light; the assimilation of carbon from atmosphere by the foliage is as necessary as root action. An unbalanced ratio between the two means trouble for the rose. The function of the green parts in absorption of charcoal and liberation of pure oxygen is dependent on sunlight. While you cannot regulate the sun you can measure the amount of foliage surface to equal the square of your rose house. I don't know that any rule of measurement has ever been adopted, but I would consider the usual spacing of plant about right up to December 1, but thinning out should begin whenever the maximum of foliage is obtained.

J. B. WHITNALL.

ROSE RICHMOND.

THE CARNATION.

Carnation Mary Tolman.

We show herewith the new carnation, Mary Tolman, originated by A. E. Hunt & Co., of Evanston, Ill., and now being grown by the same firm and also Hunt Bros., of Park Ridge, Ill. In color it is a salmon pink, of somewhat warmer tone than Enchantress, closely approaching the shade of the old La France rose at this season of the year. The blooms are large, some being fully four inches in diameter with very well filled centers. Mid-July is the best time for planting for long season cutting. It produces freely and is an early and continuous bloomer. With its other claims for recognition it is said to be an excellent shipper. There are now about 2,000 plants of this carnation in the Park Ridge establishment, and propagation is now going forward in expectation of a very heavy demand for cuttings next season. The plants are showing up to excellent advantage, the flowers all being carried on stems erect and free, but still not so wiry as to be ungraceful. The Chicago Carnation Co., of Joliet, will aid in the dissemination of this seedling next season. This latter firm will also grow it extensively.

CARNATION MARY TOLMAN.

Salmon Pink Seedling Originated by A. E. Hunt, Evanston, Ill.

Carnations in Vermont.

ED. AMERICAN FLORIST:—

In this northern climate we put out carnation plants the first week in June and, if any flowers are wanted in fall or early winter, we bench the same again about the last of July. Would they not do equally as well if they were not put in field, providing a house could be well ventilated? S. J.

The method of growing carnation plants indoors all summer versus planting out in the field for a short period has been thoroughly thrashed out through the columns of the AMERICAN FLORIST both methods having its advocates, and it seems that given proper care in each case the whole thing has simmered down to the close application of the various little details in caring for the plant's requirements under each method of culture. This season we are growing upwards of 30,000 carnation plants indoors entirely, consisting of Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Beacon, Winsor and Mrs. T. W. Lawson. We have never had or ever seen plants in better condition than these are. They are in perfect health regarding bacteria and not a sign of red spider can be found anywhere. They have been doing extra well all winter most of the Beacon showing signs of where 16 or more flowers have been cut. Besides this every possible cutting that could be secured has been taken without distressing the plants or causing the flowers to burst their calyces.

These plants were propagated from indoor grown plants, potted into 2¼-inch pots as soon as rooted and the latter part of April planted into benches containing about three inches of soil, almost virgin, the only manure used being a little placed on the bottom of the benches to prevent the soil from falling through. The young plants were set from three to four inches apart each way and well watered in at planting time after which they were watered only as they needed it to prevent wilting. The temperature was kept as low as possible during May and June with plenty of air on at all times, close attention being given to the work of keeping the shoots pinched back. Planting into their permanent quarters commenced June 27, the final planting being finished by August 1. We have found that the most important feature connected with indoor summer culture is to get the plants into their permanent quarters as soon after July 1 as possible. After this date the plants begin to suffer whether planted close on the bench or held in 4-inch pots as is sometimes practiced. At planting time a light shade is thrown on the glass with a syringe, enough only to break the strong glare of the sun.

Particular attention must be given indoor plants as regards topping back of the shoots. As quickly as each growth is large enough to be able to make a clear cut it should be pinched back. Ample ventilation must be provided; it is best to get this from the top of the house in the usual way. When we first started to grow carnation plants indoors all summer, we practiced leaving the doors and side ventilators open at all times causing a strong current of air through the houses. Our experience of the last two seasons has taught us that this way is not conducive to the plants' health it having a tendency to a fierce drying out together with an abundance of red spider. Our experience has been that with indoor summer culture of the carnation it is possible to get as fine a flower with longer stem. They commence to produce earlier in the fall, the blooms coming continuously from September to the next July without any off crops unless the plants be robbed of shoots for cuttings; the plants will not be as large as field plants but they can be planted closer together on the benches. There is one drawback and that is when a supply of cut blooms throughout July and August are needed for retail trade it is considerable of a sacrifice to throw out the old plants to take care of the new.

C. W. JOHNSON.

Benches for Carnations.

ED. AMERICAN FLORIST:—

I have a house used for growing carnations, with two side benches and a middle bench, the two sides being piped (hot water) but none in center. In the center of the house there is a good chance to make a solid bed; of course that would throw plants further away from glass but would that have the effect of drawing plants too much? What I should like to know is, would I get any better results from the solid bed than from benches? These are at present raised and four inches deep.

S. J.

We cannot advise solid beds against benches for the best results in carnation growing. In the midwinter months carnation plants growing in solid beds will stand still in spite of every encouragement; there seems to be a coldness of the soil at the roots that is impossible to overcome, but during late spring and in the summer the plants in the solid beds will do better than those on the benches. For best results throughout the entire season stick to the bench system.

C. W. JOHNSON.

Carnations for British Columbia.

ED. AMERICAN FLORIST:—

What are the best carnations for cutting in summer and fall for British Columbia? We have no killing frosts until the middle of October and roses and carnations do not winter kill when unprotected.

E. R.

Nearly all the standard varieties of carnations do well outdoors in the climate of British Columbia, but for preference use the Enchantress type. We would select Enchantress, Rose Pink Enchantress, White Enchantress with the variety Beacon for red. The Lawson types are very free bloomers for the same purpose but they do not throw the length

of stem and the stems come more heavily laden with buds in comparison with the Enchantress varieties, consequently they are not as desirable. Also the Lawson varieties are very much more susceptible to thrips, thus spoiling their petalage.

C. W. JOHNSON.

THE RETAIL TRADE

BE sure and keep our floral design supplements between stiff folders. This will make an elegant sales book for counter trade.

"MOVING the yellow to make room for the green" was one of the cards used in Palmer's window, Buffalo, N. Y., the day before St. Patrick's day, the window being well stocked with choice daffodils.

Dealing With Street Fakirs.

A New York lady, having given a violet peddler a $10 bill for a bunch of violets, had his tray pushed into her hands and was told to "just wait here while I get change." The spectacle of a pretty and richly dressed lady selling violets on the street was attractive to the passers-by but embarrassing to the lady until she was relieved of the tray by a man who noticed her predicament. The moral is twofold and obvious.

Gates Ajar.

SEE SUPPLEMENT WITH THIS ISSUE.

When properly carried out this makes a very beautiful design and at the same time one that is very easily spoiled. The design here shown was made when roses were very scarce and high, so we did our best with lilies and carnations. The gates ajar should never be made for less than $15, and from that up. A short time ago, at a funeral of a prominent lawyer, I saw this design, the base of which was made of ivy, the posts and arch solid of Marie Louise violets, while the gates, which were of the newer style, simply had sprays of lily of the valley pinned on them. In the base was a cluster of cattleyas, violets and Adiantum Farleyense, and for richness this had anything we ever saw beaten.

Another beautiful combination for this design would be a base of green, the posts and arch of Bride roses and adiantum loosely arranged, with gates of violets, completing the base with a cluster of Bride roses and violets. The great error which is so common with many, that of conglomeration, spoils many a fine design, and workers should try to avoid this and give character to their designs.

S.

March Flowers in the Chicago Stores.

Taken as a whole the cut flower situation in Chicago is satisfactory. There are plenty of flowers in considerable variety and the quality is good generally. Carnations were plentiful a week ago but towards the end of the week and early in the present week they were decidedly on the short side. This may be accounted for, in the case of white, by the demand for St. Patrick's day for dyeing. There seems to be no reason for the yellow dyed flowers that have appeared of late. They are not beautiful by any means, nor are they necessary with the large number of yellow daffodils that are in the market. These are far prettier, last better and are in every way superior to the unnatural, yellow dyed carnations. St. Patrick's day forms some reason for the green dyed flowers, whether they are in good taste or not, but yellow carnations, unless they are natural, seem to have no excuse for their being.

IRISH HARP WINDOW DECORATION FOR ST. PATRICK'S DAY.
By the Bohannon Floral Co., Chicago.

Roses, with the exception of American Beauty, are plentiful and good. Killarney has been uniformly good for so long that it seems hardly necessary to say it is a leader and is, in a manner, taking the place of Bridesmaid. But there are some good Bridesmaid to be had, also Bride, and we have recently also noted some of the old but beautiful Bon Silene a small flowering variety not sufficiently grown, for choice and artistic work. Gardenias are becoming increasingly important as a cut flower. There is quite a gardenia revival in fact and the better class of customer who is able to spend a dollar or two on a corsage bouquet will not buy violets when the fakir is ticketing them up at 15 cents per bunch. Here the gardenia and the orchid come in and both are now fairly plentiful. Cattleya Schroederæ and C. Trianæ are in good shape and the showy Dendrobium Wardianum is also freely shown. Lilies are fairly good but not plentiful, and doubtless the manipulation of the plants for Easter has something to do with their scarcity now.

Sweet peas mark a bright spot. They are excellent now for so late (or early) in the season. The improvement in the varieties of this useful annual has made great advances and it is among the choicest and best of the smaller flowers now showing. Southern daffodils are in and are decidedly good. At the end of the week they were making $5 per 1,000 and one commission man handled 50,000 in one day. Callas, lily of the valley, freesias and wallflowers are still in sufficient supply and are good in their several ways. Plants are plentiful, perhaps the finest offerings now being some grand rhododendrons though cyclamens, azaleas and Primula obconica and P. Sinensis are all good.

Trade in Differing Degrees.

SWELL, COMMON AND DUMP.

The signs of the times tend towards class consciousness. In a metropolitan town the tradesman of ability works up a high-toned trade and to maintain his position he must cater to a certain class and to keep up the individuality of his establishment, must hold on to a certain clientele and let the hoi-poloi go to those who have other grades of trade. In a one-florist town no class distinction is made from the exigencies of the trade situation and all whose taste for flowers is cultivated elbow each other at the same florist counter. But in a big town

from the swell florist to the street fakir is a far cry and the whole tribe is in the business to gain a livelihood.

When one or more florists in a town have captured the swell trade and show capacity to hold on to the same, it is folly for mediocre florists to attack the swell ramparts and these had better confine their activities to catering to the common trade. They haven't the higher ability to serve a class whose esthetic tastes are highly developed. Better elevate the taste in their own stratum and when conditions are favorable climb in a higher position—in fact ascend to a higher business and social plane.

If the florist has in mind a distinctive aim he must shoot straight and not fire random shots and his firing have no effect. He mustn't put billboard signs in his window, reading, "Violets, 10c a bunch." Leave such faking to the back streets and street fakirs. If the mercantile product is not sold out entirely at a price which is essential to keep up the tone of the trade, do not introduce any bargain fakes, but consign the unsold stock quickly to the dump. The florist must be alive to observing his trade conditions and adjust his supply to demands. If conditions are in equilibrium, matters will be so adjusted that the machinery of exchange will be well oiled and run smoothly and florists will not be up to the glut problem.

MICHAEL SULLIVAN.

Heliconia Edwardus Rex.

Heliconia Edwardus Rex is a fine foliage plant exhibited for the first time at Philadelphia during the fall of 1907 by John McCleary, gardener to Mrs. Weightman (Walker) Penfield, Raven Hill, Germantown, and it attracted considerable attention and favorable comment. It reminds us at first glance of the older variety, H. illustris rubicaulis, but the leaves in the newer variety are much darker in color, more crimson, and broader. It is a decided acquisition among stove plants on account of the distinctive coloring, which is not any too plentiful in this genus. In its manner of growth it resembles the canna, but botanically it is more nearly allied to the banana. At one time we had hoped to be able to use heliconias satisfactorily outdoors in summer, but when we tried H. aureo striata it was not at all a success. Possibly some of your readers have tried some of them for tropical bedding purposes, and, if so, and they have been successful, an account of their experiences would prove interesting.

E. L.

NEWPORT, R. I.—Stewart Ritchie will open a retail flower store at 40 Broadway.

MILWAUKEE, WIS.—A committee consisting of H. V. Hunkel, C. C. Pollworth, Wm. Zimmerman, Aug. F. Kellner and C. Dallwig met March 7 to make preliminary plans for a chrysanthemum show in November.

ALBANY, N. Y.—At the regular monthly meeting of the Florists' Club held March 11, Fred A. Danker was named chairman of the flower show committee. The club proposes to hold an exhibition of plants and flowers in some hall in the city in November. It is proposed to divide the proceeds among several charitable institutions in the city. Chairman Danker has power to name four sub-committees.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Asters.

Never allow the young seedlings to remain crowded in the seed beds or flats but, if the benches are not ready for them, prick them out at half distance or even closer and later on thin them to the proper distance on the benches. Where the asters are to follow violets, the latter may be allowed to go on and flower and in the meantime the young aster plants will be thickening out and gaining strength. Good plants put out at any time during the present month will be in flower in June. Avoid overwatering in the early stages while the plants are small and, when they begin to take with a will to the soil, keep the surface well stirred to admit air and allow of easy watering.

Heliconia Edwardus Rex.

Iceland Poppies.

The Iceland poppy (Papaver nudicaule) stands much better as a cut flower than almost any other species in the genus and the colors of the different varieties are bright and telling. Besides this the flowers, on the slender stems, are very graceful and they are produced over a long season. The easiest way to get plants quickly is to sow thinly now in pans or flats and when the little plants are about half an inch high and showing the rough leaf lift out little clumps of about half an inch across. These will contain several plants, of course, and if planted out on a bench to thicken out and strengthen will be nice stock for outdoor planting in May or June. A sunny, warm position is necessary and the soil should be well cultivated rather than over rich. The plants will make rapid progress and the only attention needed is to shade as the flowers are produced to keep their color.

Left Over Narcissi.

The grower of narcissi under glass for cutting usually throws his bulbs away after flowering, but where they have only been gently forced the bulbs are useful for planting outdoors for cutting, that is, provided there is a suitable soil for the purpose. Very often such bulbs—and, of course, bulbs bought specially for the purpose—produce useful gatherings of flowers after the southern bulb stock is over. Where they are to be saved let the flats containing the bulbs be placed in a cool house under the benches or in frames or elsewhere where the room is not valuable, to finish their growth naturally. Then when the growth is finished let the bulbs be dried off and kept in a cool, dry store until needed for planting in August or September. Especially will they be useful for retailers who handle their own produce.

Physostegia Virginiana.

The beautiful flowers and ample growths made by this native plant in low lying, moist positions on stream banks or in similar positions show the grower the kind of treatment necessary to get the best results and if, in addition to such a suitable soil, the plants are frequently propagated by division and set going on their own account much finer spikes with longer racemes of flower will be produced. There is already a considerable demand for this excellent perennial and those who need a lasting, showy, yet refined-looking flower for July and August should grow it. Roots may be obtained from dealers in hardy plants and set out now at any time. They will flower freely this season and go on improving and increasing annually. As hinted above, it is better to divide regularly every year or two where fine spikes for cutting are needed though old, well-established clumps are fine in the border in prominent positions. It is also known to the trade as Texas heath, though this name is misleading, as it is very far removed from this family. The flowers are varied in their tints of rose, purple, mauve, lilac and, occasionally, white.

Packing and Shipping Flowers.

Many of the complaints heard of the poor condition of stock on arrival at the market or retailers' stores are entirely the fault of the packing at the greenhouses. Flowers of any kind, to travel well, must be so firmly placed that they cannot rock about in the boxes; they must be cut and in water at least 12 hours before being started on their journey and when packed must be protected from heat or cold, according to the time of year. Respecting the use of ice in summer this if often over-done and frequently well soaked paper would meet the case. The water from the melted ice is often the cause of soiling such choice flowers as Easter lilies and the chunks of ice get loose and damage the flowers. There are, of course, times when ice must be used; long distance shipments in summer would be impossible without it. But it is surprising how

well carnations and roses will carry with nothing but wet paper around them and a little oiled paper to protect them. The papers must, however, be thoroughly soaked, they should be thrown into a tank of cold water and left there for several days so they get thoroughly saturated and will hold the moisture for quite a long time. A handle on small shipping boxes that falls flat and takes practically no room and does not prevent the boxes fitting closely together, sometimes prevents their being turned over and thrown about. Where the flowers have their heads all one way this handle should be placed a few inches from the center and nearest the heads of the flowers; then when the boxes are picked up by the handle the stems will be down and any shaking will tend to bring the stems rather than the heads to the end of the box. While not leaving it so close as to make hurried packing necessary the flowers should remain in water in the cellar or cool room until the last minute, simply allowing time for proper packing and meeting the train or other conveyance by which they are to travel. Good stock is necessary, but the best efforts of the most clever grower may easily be rendered null by improper packing and want of method in shipping.

Sweet Peas.

The benches now devoted to sweet peas in full flower must be kept moist to maintain the vines in good condition and provide for the flowers. The soil must be kept loose on the surface and not allowed to cake up or dry out too much. If a little dry soil is kept on the surface it forms a good index to the condition of the soil beneath as to moisture and it also prevents the loss of moisture and ensures abundance of air reaching the roots. Unless the plants can be kept in cultivation the flowers will be poor and small, but when the roots are in good shape feeding can be indulged in and this will help the size and substance of the flowers. Younger plants in the benches, those that are now advancing for flower, must, on the other hand, be very judiciously watered. Nothing is so apt to cause the flower buds to drop wholesale as heavy watering before the plants are in a condition to use the moisture. Continue to tie or otherwise support the plants so they do not fall about, this leading to the vines failing or at least to the flower stems coming crooked. Large old plants that are getting up close to the roof in low houses should have the strings cut and lengthened so they may be slanted a little and thus kept away from the glass. There is still time to plant out young seedlings for a later supply of flowers and, with the increasing light, the growth will be freer and the flowers finer than an earlier lot. In preparing the benches or solid beds a rich soil is not necessary—just a good holding loam with a little well rotted manure. When old bench soil is used mix a little new fibry loam with it to give it texture as the roots will do better in it than in finely divided soil such as that which has grown a crop of roses or chrysanthemums.

BROOKLYN, N. Y.—Andrew Leis and a woman by the name of Thomas were found fatally shot in a New York hotel March 3, Leis' revolver being found on him.

CHRYSANTHEMUMS

The Leaf Tyer.

As the sun returns and the house begins to warm up through the day, Phlyctaenia ferrugalis, commonly known as leaf tyre or leaf roller, increases in activity and a few lines at this time are opportune. These common names are applied owing to its habit of drawing two leaves together or rolling the edges under by means of a fine silky web. It is only injurious to the plants in the larval or, as most florists would say, worm state. When in this form it feeds upon the leaves, usually from the under side, leaving the epidermis or skin like upper surface and when food is scarce they sometimes devour the whole leaf with the exception of the mid-ribs or veins.

The Chrysanthemum Leaf Tyer Natural Size.

A few of the insects would not have a very serious effect, but as they soon pass from the laval state to that of the moth or miller and then are actively engaged in depositing eggs, their numbers are rapidly increased. The accompanying illustration shows the various stages of development. For the first few days the larva is smaller than the one shown at the extreme left, and as it feeds and attains full growth, usually seeks a sheltered place like a dead leaf near the ground, where it draws the edge of the leaf over so as to envelop itself. Here in the course of a few days it passes into the chrysalis or pupa state (the center figure) and is then dormant until it is again transformed into the moth. They do not restrict themselves to chrysanthemums and are often found on roses, coleuses and various bedding plants. Some 12 years ago they were first noticed on our place; we did not give them any great consideration and, to our sorrow, were soon confronted with a serious problem. They became so plentiful that thousands of moths would rise when watering, and the larvæ were so numerous as to devour the entire foliage of whole houses of stock plants.

As far as we know there is no remedy that eradicates the whole colony. We have been able to keep them under control by killing the moths as fast as they appear. This requires several persons to follow the hose at watering time when they fly to the glass. We use a newspaper folded to about the same form as would conveniently go in an overcoat pocket. They are rather fragile and are easily disposed of with a sharp rap. The larvæ may be destroyed by hand picking, but this is an endless task when there is a great area of stock to be inspected.

No doubt Paris green or arsenate of lead would be effective remedies if it were possible to apply such solutions to the under-side of the leaves, but we find this very difficult to do, especially with stock plants having several branches and these very near the ground. Hydrocyanic acid gas has been tested and, we understand, without success. When first hatched the moth is rather heavy in flight and can often be caught between the hand and paper, but after a few days they become very active and resort to a zigzag course when chased. Under such conditions it requires about the same dexterity as is employed in basket ball to capture them on the wing. Usually it is prudent to let them light when they are easily killed. This crusade should be continued from day to day and when it becomes necessary to water twice a day let the battle continue, for any abatement gives them a renewed foothold.

ELMER D. SMITH.

The Iris and Its Culture.

Of rhizomatous irises the bugbear class is that of the onocyclus group, generally known as cushion irises. The most familiar species is the mourning iris or I. Susiana. All have very broad petals, and among them are the most remarkable forms in coloring. Many of the flowers are most delicately veined and reticulated, generally with a darker color on a light background, and were they of easier growth they could not fail to be popular in every garden. They are from Persia, Armenia and Afghanistan and naturally require hard sun baking after their short blooming season. They can hardly be called hardy, and in any event require such special cultural attention that they cannot be recommended. The wonderfully full flowers with their peculiar markings such as shown in I. paradoxa, I. Iberica and the so-called prince of irises, I. Gatesi makes them particularly interesting and tantalizing, says J. Woodward Manning in his paper read before the Massachusetts Horticultural Society.

Closely allied to the oncocylus group is another, popularly known as the regelia section, in which the petals are narrower and the plants are hardier and considerably more easily cultivated, but of even greater importance is the fact that they hybridize freely with the oncocyclus group and the progeny are comparatively easily cultivated, increase rapidly and are of prolific blooming quality. C. G. van Tubergen, Jr., of Haarlem, Holland, has been largely responsible for this group of so-called regelio-cyclus irises, obtaining them by crossing I. Korolkowii and its varieties; I. Leichtlini, I. Sara and I. Suwarowi with various species of the oncocyclus group. Such resulting progeny as Psyche, lavender, beautifully striped with rich purple, with darker toned falls; Charon, rich coppery purple with deep purple markings, and Iphigenia, intermediate in its color range, show something of the result, while the shape of the flowers is a happy medium between the two groups. Probably this group has not been extensively cultivated in this country as yet, and we will look forward with deep interest to the results.

We now arrive at a point where it is impossible to make a distinct horticultural line between classes based on botanical classification, but by dividing the remaining classes and groups into those with and without surface rhizomes it is possible to make a form of subdivision. The surface rhizomed forms are more popularly known as German irises, though the true I. Germanica is but one of many species. The dwarf forms are greatly neglected, being but seldom seen in American gardens, yet they possess great merit, in their range of bloom and the earliness of flowering period. I. pumila is better known than the other species, and, growing about nine inches high, bears in April showy, deep purple flowers in profusion. As an edging plant it has much merit, and there are various selected varieties,

ranging from pearly white through clear blues to the deeper colored typical form. I. pumila is certainly worthy of far greater use than has been the case in the past. I. verna, another dwarf species from the Carolinas, is equally dwarf, quite prolific in bloom, with purple shades, and blooms about the same time. This does not show the improvement and fixed forms, however, that occur with the last species. The gem among dwarf irises, however, is the crested I. cristata, growing only about six inches high, with light green foliage. It forms a carpet of verdure and bears freely light blue flowers, beautifully blotched with golden yellow. I know no form of dwarf iris with so great a number of uses as this, either for naturalizing or for varied garden use.

Commonly confounded with I. pumila is a form with flowers borne singly on the stalk, with somewhat broader leaves. This is I. Chamaeiris, or its variety Olbiensis or Italica. The type bears yellow flowers with the falls veined with purple. Another small and showy dwarf species known as I. flavissima or Bloudovii, a native of Siberia, bears showy pure yellow flowers. While there are a number of other dwarf species, they have no particular horticultural merit over these. A new race, intermediate between these dwarf irises and the taller growing German iris, has appeared within a few years under the name of alpine irises, these being produced by W. J. Caparne, of Rohais, Guernsey. These are the result of crossing many of the dwarf species with taller growing kinds; the progeny vary in stature, and, it is claimed, give flowers over a period of six to nine months. Probably, however, this refers to a collection of the hybrids rather than any single variety. Undoubtedly they have much of interest, and trial will eventually prove such merit and distinction as they may possess.

For perfect hardihood, freedom of bloom and range of color we can, with the dwarf and taller growing German irises, feel quite independent of the more difficult forms. The German iris, as popularly known, varies in growth from 15 to 40 inches. The earlier varieties commence blooming in early May, and by a careful selection of kinds it is possible to keep up a succession of flowers until late June. Many species are responsible for the beauty of the class, and their crossing and selection have confused their origin. I. variegata shows its influence in the prevailing yellow color of the standards of the following varieties, with the rather remarkable exception of Innocenza, a very fine form, pure white throughout. Other popular and good named kinds are Beaconsfield, standards yellow, falls crimson, edged with primrose; Gracchus, standards yellow, falls crimson reticulated with white; Maori King, standards yellow, falls rich velvety crimson, margined with gold; Sans Souci, standards yellow, falls yellow, reticulated with crimson brown, and Regina, standards yellow, falls white, conspicuously veined with lilac and edged with primrose yellow.

Iris sambucina, crossed with I. pallida, has given us the very beautiful variety Madam Chereau, while the cross between variegata and sambucina produces I. neglecta, by a selection from which we have Clarissima, with lavender standards and falls reticulated with crimson purple on a white ground; Cythere, standards lavender blue, falls clear blue; Florence Barr, with both falls and standards bluish, with rosy lilac tinge, and Mons. de Sible, with lilac standards and deep crimson purple falls. Some beautiful forms are embraced under the doubtful species I. hybrida, all with white standards, of which Duc de Nemours, with purple edged white falls; George Thorbeck, falls rich violet purple veined with white at base; Mrs. George Darwin, falls white, the upper part veined with gold and violet, are among the best.

Florists' Problems.

Part of an address by Prof. W. S. Blair, horticulturist at Macdonald College, Que., before the Montreal Gardeners' and Florists' Club.

In Montreal and vicinity, there are about 500,000 square feet under glass devoted to commercial floriculture and vegetable forcing. In comparison, we have one acre under glass to 200 acres devoted to the same line of work in other parts of America. It is not necessary for me to state that a number of problems of great interest to florists could be worked out at considerable saving to the trade at some place erected for the purpose. So far as I know, no aid has been sought for such work in the province. Yet you have at your service without any cost, and without any effort on your part, a range of greenhouses thoroughly up-to-date in every particular, donated by Sir Wm. C. Macdonald of your city, and situated at Macdonald College, where experiments in your interests are and will be conducted. This certainly is a gift of which the florists and gardeners of this province should be proud, for, through it, we will be able to keep pace with those engaged in similar lines in other parts of America, all of whom are receiving more or less state or provincial aid.

Prof. W. S. Blair.

Horticulturist at MacDonald College, Quebec.

THE GREENHOUSES.

Our houses are well known to most of you. They comprise four 100-foot houses built in block, with glass partitions dividing each span of 21¾ feet, and these houses are again divided, giving us eight houses, each under thermostatic control. I personally planned these houses, so hesitate to say much about them. What was in mind when developing the plan was to assist those who intend making a living out of plants under glass so that they would be able to get the largest possible crop at the least possible expense, so as to be able to supply a larger number of people with such plants at the lowest possible rate. For this purpose, to conduct effective experiments, crops must be grown on a commercial scale, and marketed in a commercial way. A quantity of certain crops must be produced and placed upon the general market, and this continued for a number of years, in order to determine accurately and give reliable information. In our experiments the business end is always in view, not in assuming what we might have got, but by placing our produce on the general market and taking chances with growers in the same line. It has always seemed to me that many of our provincial and state aid experiment stations cut off their work at the business end, simply because some grower feels that to place such goods on the market would infringe on his business. The idea is entirely wrong from every standpoint, so far as I can see. Of course, it is possible to abuse such a privilege, but if honestly done, no one suffers.

BENCH ARRANGEMENT.

Considerable thought was put on the arrangement and building of benches. Possibly our experiments to determine some of the best styles of bench are not duplicated elsewhere. We have the solid side benches, 2½ feet high, in some cases filled with earth to the bench soil, in other cases with rough excavation stone, and with cinders in still other cases. Some of the benches have 2½-foot sides, with openings into 2½-inch tile, laid close together below the bench soil, and below these again there is simply soil, excavation stone or cinders. In other benches with 2½-foot sides, there are 4-inch openings in line four inches apart, and 18 inches below the top of the bench, opening into excavation rock or cinder, which fills the center of the bed. We have low benches, with simply 8-inch coping, and elevated benches. These benches are arranged differently in different houses. The object is to determine the best style of bench for different crops, and the best arrangement of these benches in the house.

In the construction of the benches, we aimed to take up as little space as possible with the thickness of the bench sides. The benches are all made of cinder concrete, reinforced with wire. The bench sides, except of the elevated benches, were made of cement slabs, three inches thick at the bottom, two inches at the top, two feet eight inches wide, and 5½ feet long. These were made on their flat, and electric weld wire placed in the middle of the slab, allowing four inches to project at each end of the slab. After they were well set, they were lifted and taken to the house, set in place, and the wire at the ends hooked together. Then thin concrete was run in between the joints, putting up boards to hold it, and the whole braced on the inside by an occasional cement beam to prevent spreading. We have not been long enough at the work to give any information on the relative merit of these benches, but hope to do so in time.

The problem of greenhouse soil will receive our attention. An experiment that we propose to take up is the growing of a crop on the benches, principally in the summer, for the purpose of incorporating fibrous roots, and bring about a rotation, saving the work of renewing bench soil so often. This, of course, is impracticable, with some crops, but it seems possible that some quick-growing, heat-loving crop will prove useful in this connection. The physical condition of the soil for various crops has not received enough attention, and in this connection we have experiments under way in which the soil has been incorporated with chopped alfalfa in different proportions. Experiments aiming to get more definite information as to the physical property of soils best suited to greenhouse crops will be taken up as rapidly as possible.

The best time for benching different crops to get best results has not been well worked out in our northern districts and along this line we aim to devote some time. Selection of cuttings from the most productive plants to increase the yield, is a problem not worked out on a commercial basis. I fancy that if the florists could see by concrete experiments an increase in cut of bloom equal to 25 cents a plant, through such a system, some attention would be paid to this important question. Then we have the problem of getting pure

fresh air into our houses during the cold winter months, when no ventilators can be opened. The quetsion also of percent of moisture in the air during the winter months is one worthy of attention in this section.

Experiments to determine the temperature at which we can develop different crops most economically during our winter months is one on which several thousand dollars could profitably be expended. There are countless experiments that could be carried on, giving light on the various sides of this occupation. Limited space, continuation of the experiments over a number of years, and the fact that several different experiments cannot be conducted at once in the same house renders the working out of these problems necessarily slow.

Massachusetts Agricultural College,

DEDICATION EXERCISES.

Appropriate exercises for the dedication of French hall and the Durfee range of greenhouses were held in the former building, March 12 at 2 p. m., Professor Frank A. Waugh presiding. The first speaker was President Butterfield. He welcomed those present on behalf of the college, and spoke briefly on the building of French hall and the greenhouses as one of the most significant advances. He went on to say that an agricultural college must not only teach students but must be of practical use to the practical men in the state following these lines. M. F. Dickinson was introduced as the chairman of the building committee of the trustees and formally accepted the building in their behalf.

Prof. Waugh then introduced W. H. Bowker of Boston who spoke long and very interestingly of Henry F. French and Nathan Durfee. E. A. White, professor of floriculture at the college, then gave an address on "The Development of the Greenhouse Project." The building as now designed is considered to be but a part of a future building. W. H. Ritchie of Boston did the architectural work on the building, and the contract for construction was let to Allen Bros. of Amherst. As the building stands today, with the equipment, the cost is approximately $17,000.

J. K. M. L. Farquhar was next introduced. He spoke on "What the Greenhouse Has Done for Horticulture." After his picturesque remarks he entertained the audience with lantern slides which he had collected of pictures representing the greenhouse enterprises in England, Belgium, Holland, Germany and Russia. He spoke on the different crops grown in the several countries and finished his lecture with views of houses in the United States.

The visitors at the exercises were then given a rare treat in the form of a huge flower exhibition in the laboratory of French hall. Flowers were received from many Massachusetts growers. A number of designs were made by the members of the senior class in floriculture which included "Odd Fellows" by H. B. Phelps, star by John Noyes, anchor by J. R. O'Grady, white pillow by J. T. Oliver, masonic emblem by D. J. Caffrey, cross by F. H. Wilson, galax wreath with lily of the valley by B. F. Barnes, ivy wreath with violets by E. P. Hathaway, Maltese cross by T. C. Waters. The arrangement of these designs was under the direct supervision of N. J. Fennelly, for several years with Thomas Galvin, Boston.

Carnations were exhibited by the F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., who had 12 varieties. E. B. Beals of Springfield displayed a number of seedlings. The Worcester Conservatories had the largest exhibit, having 15 vases. Peter Fisher exhibited a number of seedlings. Another large display of 10 vases was made by Patten & Co. of Tewksbury Center. William Sim of Cliftondale had a mammoth exhibit of sweet peas, including 15 vases of as many varieties, and three huge vases of violets. There was a large exhibit of roses by A. N. Pierson of Cromwell, Conn., Eber Holmes of Montrose, exhibited three large vases of roses, while W. H. Elliott of Brighton had a large vase of pink Killarney roses. Bride and Bridesmaid were exhibited by Robt. Montgomery of Natick, and a large vase of White Killarney roses shown by the F. R. Pierson Co. There were also eight baskets for table decorations exhibited by Edward MacMulkin of Boston, and a display of 50 White Killarney—Waban variety—on exhibition by the Waban Rose Conservatories of Natick. Pierce Bros. of Waltham sent several varieties of carnations as did also H. H. Rogers of South Sudbury and J. W. Adams & Co., Springfield, Mass.

THE SHORT COURSE CLASS.

The short course just ended has proved to be a success in every way. This has been largely due to the splendid co-operation of the practical men who have so generously contributed the results of their experiences. In every case these have been given without financial remuneration. The college feels deeply indebted also to those men who contributed so liberally to make the flower exhibition a success. This is a valuable object lesson to the students as it shows them high grade stock and creates enthusiasm for the work such as can be aroused in no other way. Nearly all the young men who have taken the short course now have positions on commercial places. The last day of the short course, Wm. Sim of Cliftondale, gave a most interesting and instructive talk to the floricultural classes on "Sweet Pea Growing Under Glass." Mr. Sim brought with him 15 varieties of splendidly grown sweet peas, which made his talk especially valuable.

E. A. W.

Rose Culture Under Glass.

A paper read by N. Butterbach before the Elberon, N. J., Horticultural Society, February 15.

We could never see any difference in cuttings from blind or flowering wood of tea roses. Different growers prefer different sizes of cuttings. Some take two, some three eyes. A keen edged knife should be used and the cut should be as short and clean as possible. The depth of the sand should be from 3½ to four inches. Insert the cutting about half way between the surface and the bottom; there the heat and moisture will be uniform. The temperature of the sand should be about 60°, and that of the house 56°. This lower temperature of the house will retard the buds while roots are forming. The cooler the cuttings are rooted the quicker they act after being repotted. During bright weather the cutting bench should be sprayed several times a day; the moisture of the foliage will greatly help the formation of roots. In about four weeks they should be ready for potting. Cuttings of American Beauty are far more difficult. Select the short-jointed blind wood. From two to four eyes can be taken in accordance to the distance of the eye. The bottom heat should be 68° and the temperature of the house 58°.

POTTING.

As soon as the roots are from ¼ to ½ an inch long, the cuttings should be potted. If they are left too long in the sand the plants will receive a check when potted. Two to 2¼-inch pots are right for Bride, Bridesmaid, Golden Gate, etc., and American Beauty 2½-inch pots. See that the pots are clean, and if they are new have them well soaked. The soil should be a fibrous loam, four parts of soil to one part of rotten manure. The soil should be screened through a half-inch mesh. In potting get the roots as near to the top as possible, and don't press too hard, only to keep the cuttings standing firmly. Place them on a bench on coal ashes and water twice with a rose and shade them at once. The shading should be removed at night and on some cloudy days. Keep the soil moist, not soaked, and keep the house at a temperature of 58° at night, with a rise of 10° to 15° in the daytime.

REPOTTING.

When the ball is rooted through, the plants should be repotted. The soil should be prepared the same as for cuttings. See that it is free of lumps and the plants potted firmly. Remove a lit-

MASSACHUSETTS AGRICULTURAL COLLEGE.

Short Course Class in Floriculture.

SEATTLE, WASH.—Mrs. J. B. Romans, formerly of Columbus, O., died here suddenly while waiting for a car.

DAYTON, O.—At the meeting of the Florists' Club, March 1, H. H. Ritter was elected president, Horace M. Frank, secretary and Geo. Bartholomew treasurer.

HARTFORD, CONN.—A certificate of organization has been filed in the office of the secretary of state by the F. Brewer Co. of Middletown. William B. Brewer, is president and treasurer; Grace Arnold Brewer, secretary. Directors, William B. Brewer, Grace A. Brewer and Wesley U. Pearne, all of Middletown.

tle of the soil at the top of the ball and at the edge. For grafted stock get the graft as far under ground as possible each time they are repotted. A plant from two to 2¼-inch pots will take a 3-inch, and a 2½-inch pot plant will take a 4-inch pot. They will fill the pot quicker and make a better growth if not shifted into too large a pot. American Beauty requires a heavier soil and a 3½-inch pot. Give plenty of drainage and do not crowd the young plants. They ought to have the best place in the house where they get the full benefit of the sun. Syringe on every bright day and never allow them to get dry for any length of time. If sulphur cannot be applied on the pipes, a dusting with a bellows will be needed. We use common hand lanterns if there is no heat from the pipes. We put a thick layer of sulphur on top of the lantern and light the lantern, and we never had any damage of yellow or burned leaves.

PREPARING SOIL AND PLANTING.

Early in spring is the time to prepare the soil. A good friable loam, if possible from an old cow pasture, put up in a square pile about two feet high with one part of good stable manure. After three weeks the pile should be chopped in pieces and turned over. The pile should be turned every three weeks until needed to prevent weeds from growing. When the benches are filled and the soil well pulverized, we spread bone meal about one pound to the running foot of bench evenly and mix it well by hand. If there are any rough pieces these are well broken up. We prefer early planting and selection of good stock. A sickly plant is discarded, and the stock is planted carefully, regardless of time, and firmly, without damaging the ball of roots. Use nothing but the hands. Some prefer firming them by working through the rows. After a bench is planted, level it nicely and water carefully around each plant without soaking the whole bench. The houses should be planted in June or not later than July.

CARE OF YOUNG STOCK.

Much of the success or failure of the crop is attributed to the care taken of young stock. Our main effort should be to get healthy, stocky growth, and this can only be got by timely cultivation, watering, ventilating and feeding. The cultivation should be continued until the feeding roots reach so close to the surface that the cultivation cannot be carried on without injuring the plants. Careful watering is also of great importance at the different stages of the growth. Not alone should the man know how to handle the hose, he must also consider the outdoor atmosphere. If evaporation is rapid and the atmosphere dry, the plants can hardly be overwatered, but if the atmosphere is moist, watering must be done very carefully. A man who knows how to handle the hose can syringe as sharp with little water as some with full force on and soaking the bed. As soon after planting as time can be spared, the plants should have supports and should be trained in position, so the light and air have full access. Grafted stock should have supports as soon as planted. In fact, it is better to give them a little support when in pots. Pieces of wire eight or ten inches long are sufficient. This will protect the scion from being detached from the stock when syringing.

If the soil had a proper quantity of fertility at planting time, very little feeding is required except a light sprinkling of bone meal and wood ashes at intervals, or a dusting of lime, until the bench is well filled with roots. There is no special time set for mulching; each grower must know when his plants need feeding. In raised benches with about four inches of soil left after the summer's growth, the bench is naturally exhausted. A sprinkling of bone meal with a top dressing of two parts of rotten manure to one part of soil is our first mulch. Air slacked lime, wood ashes and bone is used alternately later on. A top dressing of cow manure and soil is used when the roots show on the surface. In the short days when a heavy crop has been cut, the beds ought to be kept on the dry side for a week or so to increase root action, but it should not be overdone; simply keep the bed in a mellow condition. When the days get longer and brighter, more air and water can be given to plants in active growth, also more stimulant can be applied in the way of liquid or mulch. We find American Beauty does better by giving from time to time a light mulch and a dusting of bone or ashes than feeding too much liquid manure. The fallen leaves must be kept picked up and disbudding attended to. The shoots which touch the glass must also be tied down.

VENTILATING AND TEMPERATURE.

The most important duty of a successful rose grower is the right handling of the ventilator. Careless ventilating is the cause of more mildew than anything else. When the house rises to 65° raise the ventilator just a few inches, but never enough to get a sudden drop of temperature. It should be raised inch by inch, according to the outside temperature, in the afternoon reducing the air in the same manner. During the short days the houses should get all the air possible. Keep a little fire going with a crack of air on. Watering and syringing have to be done very carefully at this time of the year. Sometimes the bed has the appearance of having plenty of moisture, but by examining the benches it will be found that the bottom is quite dry, especially when heavy firing is done. Red spider is troublesome at such times, especially with American Beauty, and if this insect gets a hold there will be no flowers until spring. The temperature for American Beauty houses is 60°, for Bride and Bridesmaid 56° to 58°, for Golden Gate and Ivory 54° to 56°. Papa Gontier from 48° to 50°, with a rise of from 10° to 15° by day.

CARRYING OVER ROSES.

Prominent growers tell us that much finer, though perhaps fewer blooms are cut the second year than the first. The stems are larger and stiffer and the flowers fuller, which is worthy of consideration. We have seen a good many failures in rose growing as the result of carrying over old plants, but this is generally caused by wrong treatment between seasons. We believe that success is to a certain extent due to the resting and starting period. It is a great mistake to attempt to grow flowers all summer without any rest whatever. The opposite extreme, insisting on an absolute cessation of growth, notwithstanding the fact that nature is trying her best to encourage it, is just as injurious if not more so. If the soil becomes dry and hard, the tender shoots shriveled up, the fine roots destroyed, this causes exhaus-

ROSE WELLESLEY.

tion, not rest. The resting of the plants is meant to store up and concentrate vitality for future use. This can only be accomplished by keeping the soil on the dry side, only dry enough to harden and ripen the wood, but at the same time never to stop root action altogether.

To Be Done Now.

IN THE GREENHOUSES.

Give the marguerites plenty of room so they get a good circulation of air around them and feed lightly as soon as the pots are well filled with roots.

Keep the manetti suckers regularly picked off the young grafted rose stock. Never leave the shoots in the grafting case but have a small tray at hand to keep them in and throw them out when finished.

Nitrate of soda is an excellent feed for palms that are strong but deficient in color.

Just bury the young cyclamen corms when potting. They will work up as they root sufficient to clear the crowns.

In potting palm seeds that have started to grow, carefully avoid breaking off the root.

Sow parsley again for frame culture and for early plantings outdoors. Sow thinly and avoid overwatering as the seed takes a long time to germinate.

Plant out asters on the benches for early flowering inside and sow again for outside plantings.

See that all bedding stock has plenty of room to develop. Any plants that are allowed to run up to flower now will be useless for all practical purposes by June 1.

Pot the bulbs of yellow callas and Calla maculata and start them going for the season.

OUTDOORS.

Plant out Eremurus Himalaicus and E. robustus, burying the large, star-like roots about four inches deep.

Harden frame cauliflower plants by removing the lights entirely by day and allowing some air at night.

Stenanthium robustum and Physostegia Virginiana are useful plants for cutting and may be obtained and planted.

It is quite safe to plant out all semi-hardy stock such as Pyrethrum roseum and seedling stock of hardy perennials.

In making hotbeds well shake out every forkfull of manure as this will insure better and more regular heating.

Pansy Notes.

Named fancy pansies that are of extra merit for giving pronounced color effects are represented by those old familiar varieties, Mrs. William Watson, lemon-yellow and black; Miss Stirling, cream and mauve; and Crimson Marmion, says the Gardener's Magazine. Show pansies, having petals less covered by dark blotches, appear of more "self" hues, yet it is doubtful if anything can surpass the warm or golden tints that the fancies, when grown to giant size, are sure to yield.

When shrubs are to be associated with pansy displays the golden-foliaged should be placed only among the dark-hued, and green-foliaged among white, cream, pale blue, mauve, rose, or yellow.

Shrubbery glades can be made beautiful by pansy planting in sufficient quantity; among sheltering branches the flowers will be protected from too much sun scorching, and the roots will find the cool moisture they need.

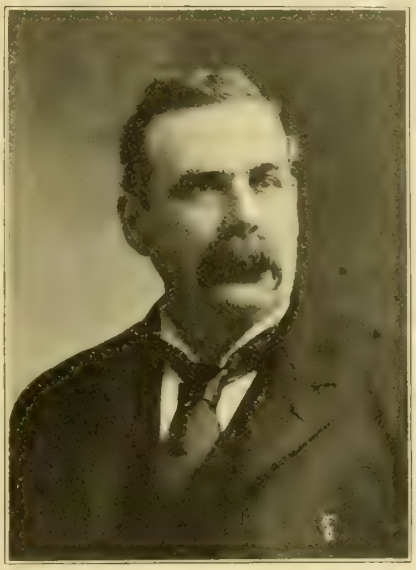
It will be essential to make the soil thoroughly rich, and if possible stiff clayish loam should also be incorporated; after this preliminary care a weekly watering of a thorough nature, followed an hour or so later by an application of liquid manure, will keep the plants healthy through the dryest summer.

In shade, or semi-shade, pansies, will flower freely for eight or nine months of the year, provided that they are kept from seeding, and have their number of shoots reduced now and then.

OBITUARY.

Louis M. Noe.

Louis M. Noe, of Madison, N. J., died March 11 of pleuro-pneumonia, after an illness of three weeks. It is thought by his friends that an accident he met with



The Late Louis M. Noe,

in Dakota last September hastened his death. Mr. Noe was a life-long resident of Morris county, and one of the most extensive rose growers in the country. He was born in Chatham township May 13, 1847, and represented one of the oldest families in the state. He was of French descent, his grandfather, Louis Noe, having come to this country as a soldier with Lafayette and served through the revolution.

The Late Eugene Germain.

See Obituary Column Issue of February 27.

After studying law for two years he turned his attention to the nursery and fruit-growing business, in 1872 forming a partnership with his brothers-in-law, Samuel and O. N. Brant, comprising the firm of Brant, Noe & Brant. Their orchards were located in Pennsylvania and northern New Jersey. In the spring of 1884 he established his rose gardens, and gave up the interest in the peach-growing and nursery business to Samuel Brant. At the time of his death, Mr. Noe had an immense area under glass in Chatham township, and also owned half interest in the Brant & Noe Floral Co. in Chicago, of which he was president. This company has also a very large glass area.

He owned 500 acres of land, and in his orchards and gardens gave employment to an army of men. And it is a noteworthy trait of his character that he always paid as much attention to the comfort and proper housing of his employes as to his own family. One of his recent commercial ventures was the establishment of a model dairy, in connection with his son, Louis A. Noe, where milk from a specially collected herd of 300 cows is bottled and sold under the most improved hygienic methods. The manure from the dairy was used in the greenhouses.

In 1870 he was married to Miss Emily E. Brant, who, with three of their four children, survives him. The children are: Maria, wife of Lincoln Pierson, of the Pierson U Bar Co., who resides near the Noe etsate; Louis A. Noe, who also operates a large rose-growing plant and is the active manager in the dairy farm, and Miss Lillian May Noe. A third daughter, Edith, died in 1891, at the age of nine years.

RESOLUTIONS ON DEATH OF MR. NOE.

The following preamble and resolutions on the death of Louis M. Noe were passed at a meeting of the directors of the New York Cut Flower Co.

Whereas Louis M. Noe, our friend, counsellor and for some time vice president of our organization has been called from us by death, leaving a void, which to us seems one that cannot be filled, and

Whereas we who have been associated with him so long in this organization, feel that it is but proper that we place on record our estimate of his character and worth, and the sincere sorrow which each feels at parting with such a dear friend, able associate and worthy colaborer, therefore be it

Resolved That the members of the board of directors of the New York Cut Flower Co. do hereby extend to the family their sincere sympathy at this bereavement, assuring them that by his death, not only are we made mutually mourners for our beloved and respected friend but that, in the death of Louis M. Noe, we have been deprived of the advice and assistance of one of our most useful members

Resolved, That this preamble and resolution be placed in full on the minutes of this company, a copy of the same be published in the trade papers and also in the local papers of Madison, Chatham and Summit, N. J., and that an engrossed copy be sent to the family.

HENRY HENTZ, JR.,
S. C. NASH,
F. L. MOORE,
Committee.

Patrick H. Lawlor.

Patrick H. Lawlor, for many years in the nursery business at Flushing, N. Y., died at his home there on March 10, aged 70 years. Mr. Lawlor was a native of Ireland, coming to this country 59 years ago. For many years he was connected with the Parsons Nurseries of Flushing. Much of his service to the Parsons concern, was in a business capacity as he had made trips to Europe in search of rare trees and plants. Lawlor was to the business end of the Parsons concern what Trumpy, a sketch of whom recently appeared in these columns, was to the propagating and growing departments. Mr. Lawlor was a genial and kindly man, well liked by all with whom he had relations. Since the Parsons Nurseries went out of existence, we do not understand that he has been actively engaged in business. He is survived by a wife and six children.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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We do not assume any responsibility for the opinions of correspondents.

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ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa

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324 Dearborn St., CHICAGO

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DORMANT, perishable stock can now be shipped by freight with reasonable safety.

EASTER, that holiday of all holidays for the florist, is only 22 days away. Are you ready on all lines?

THE advancing price of brick would seem to be a still further reason for the increased use of concrete.

PARTICULARS of an examination for city forester for Chicago will be found in our "Nursery Trade" column.

EIGHT THOUSAND palm leaves for Palm Sunday arrived at New York from South Florida on Tuesday by steamer Savannah.

THE quotation for 1¼-inch greenhouse pipe is 4½ cents per foot, as compared with 6¼ cents per foot one year ago, in car lots.

THERE is much food for thought in the article on "Bull-head Roses," by C. B. Whitnall which appears elsewhere in this issue.

A PROMINENT British horticulturist refers to the "new catalogue of sweet pea 'names'" to be issued by the National Sweet Pea Society. Is this to be "took sarkastic"?

THE quantity of combustible gases liberated but not consumed when fires are banked or smothered down with coal is a point worthy of consideration by those who are looking for profit leaks.

AND now it is radium and plant life that the scare paragraph writers are exploiting. Thoughtful people will take these paragraphs with a large grain of salt until the experimenters tell us what they really have done.

American Carnation Society.

CARNATION REGISTERED.

By Dailledouze Bros., Flatbush, N. Y.—The White House, color, white, very large with stiff stem and excellent calyx. A good keeper, good bloomer and good grower. ALBERT M. HERR, Sec'y.

Glass.

L. E. Partridge, of Sharp & Partridge, Chicago, expresses the opinion that the proposed reduction in the tariff on greenhouse sizes of glass is too slight to have any noticeable effect on the price of the domestic product. The proposed reduction will not be over six cents per box at the outside limit. Moreover, little or no greenhouse glass has been imported for the past five or six years.

Tariff Committees Meet.

At a joint meeting of committees representing the American Seed Trade Association, American Association of Nurserymen and the S. A. F., held at the Iroquois hotel, Buffalo, N. Y., March 18, it was resolved that the members of the above organizations appeal individually and collectively to congress to make all duties upon seeds, nursery stock, bulbs, etc., whatever revenue they may be intended to produce, or whatever interests they may protect, upon a specific basis. The various branches of the trade were well represented.

National Council of Horticulture.

The first installment of the press service of the National Council of Horticulture has reached us. This is the third season these useful articles have been sent out and both local editors and nurserymen and seedsmen should apply for and use them in their circulars, catalogues and other publications. The titles of the present series are: "Lawns," "For Indoor Planting" and "Planting in March." The articles are entirely free and may be had on application to J. H. Burdett, 1720 W. One Hundred and Fourth Place, Chicago.

Plant Notes.

Among the later additions to the pink astilbes (spirea) are two of German origin that promise well, Ardensi Ceres and Ardensi Pink Pearl. They are recommended for planting for waterside effects but will probably be equally satisfactory as pot plants, the height being given as 2½ feet, the color pink. Pink Pearl is softer in color than Ceres and flowering a little later thus insuring a succession over a considerable period.

Those who have summer conservatory decorations to keep up will find Cæsalpinia (poinciana) pulcherrima a useful and extremely showy plant for the purpose, easily grown and each growth topped with a fine head of flowers of a bright orange and red color. It is not much grown but nothing is easier. It may be reared from seeds or cuttings and grown and shifted on to any desired size. Very large specimens are not, however, as desirable as small, neat plants.

A writer in the Deutsche Gaertner Zeitung praises highly a French variety of heliotrope, called Mathilde Crémieux, obtained by M. Bruant. The plant, he says, is vigorous, neat in habit, and produces very large and compact umbels, deliciously scented, and of a tender lilac-blue. Planted in clumps, it is, when in bloom, superb. Its color, which is unique, is not found in any other race of plants.

Salvia Zurich is a plant of many names. Our friends across the Atlantic are calling it Pride of Zurich and Glory of Zurich and the English trade papers are calling attention to the trouble caused by this duplication of names. Zurich is expressive, short and a good name for this excellent bedder.

In a recent issue of The Garden there is a colored plate of Nemesia Blue Gem. The flowers, as there depicted, are a beautiful forgetmenot-like blue and if it is as free and easily grown as the ordinary nemesias this should prove an excellent bedding annual and we have not too many in this color.

Catch Crop for Decoration Day.

ED. AMERICAN FLORIST:—

I have a bench in a rose house, night temperature 58°. Would you suggest a crop of cut flowers for Decoration day? The bench will be utilized next season for carnations so I desire just a temporary quick crop. How would candytuft do? If you suggest same give the culture, please.

O. F. C. S.

If we were in "O. F. C. S.'s" place we would plant the bench in the rose house with stocks, preferably the double white, and purple or lavender shades, the latter being a good seller. Get the seed from a reliable firm and sow in flats at once. As soon as they get large enough to handle easily transplant them in flats again about an inch and a half to two inches each way between the rows. When they fill out this room, they will be ready for benching, and they can be planted about five inches apart each way on the bench using about four inches of good, light, rich soil. Shade for a few days after benching and do not run them too hot during the day. If "O. F. C. S." would like to try candytuft, pot the plants in small pots from the seed boxes

and when nicely rooted, plant on bench about the same distance as advised for the stocks, or try some of each and in this way find out which takes the best in the locality. E.

Asparagus Sprengeri.

ED. AMERICAN FLORIST:—

Will you please state in your columns what a bench of 4x300 feet of Asparagus Sprengeri will yield in a season? Also state best culture for same. Would it be best to grow in pots or in the bench for cutting? L. K.

A bench of 4x300 feet will hold three rows of about 240 plants each, about 720 plants in all, which at a low estimate should average about 50 cents per plant for a season's cut of the sprays; for bench culture 12 inches of soil is better than six, as asparagus with its fleshy thick roots loves a rich deep soil, and only in such will do its best. It seems almost wrong to devote a bench of this size to Asparagus Sprengeri. Not that it isn't worthy of it, but other crops which couldn't be grown in baskets ought to occupy the bench room. We have been growing A. Sprengeri for a number of years with the very best results in wire baskets, which can be suspended from the purlins and other places in order to give the sprays a chance to develop properly. Use 3 or 3½-inch stock between now and June, three plants to a 12 or 14-inch plain wire basket, lined with moss and filled with good rich rather heavy soil. These baskets can be stood close together on a bench until the plants become crowded, when they should be hung up. Feed from time to time with liquid manure. F. B.

Insects on Sweet Peas.

ED. AMERICAN FLORIST:—

Will you kindly let me know how to destroy moths and worms on sweet peas. I used Wm. Scott's formula of 2½ ounces cyanide, 1 pint water, and 8 ounces in graduating glass of acid, which I considered one pint, to every 1,500 cubic feet of space. My houses are 100 feet long, 21 wide and 6 feet to gutter, even space, and 6 feet from ridge perpendicularly to line of gutter. For one house I used 12 jars, which I considered right and it hurt my stock badly. C. A. M.

The insect is the common greenhouse leaf-tyer (Phlyetaenia ferrugalis). Thus far hydrocyanic-acid gas has not been found to be an effective remedy against this species. In order that it may be effective it would be necessary to use it at least three times, about the time the insect was transforming either from the egg to the young larva or when the larva was transforming to the next molt, or when the larva was transforming to pupa. This would necessitate considerable very close observation to determine the exact times. We have little doubt, however, that if any one would take the trouble to examine the insects day by day to determine the proper time, they could be destroyed. "C. A. M." does not state the length of time the fumigation was continued, which is an important point. Then, again, sweet peas might be more susceptible to hydrocyanic-acid gas than other plants would be. C.

Meetings Next Week.

Baltimore, Md., March 22, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Boston, March 24-28.—Annual spring show of the Massachusetts Horticultural Society, Horticultural Hall.

Cleveland, O., March 22, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit Street.

Hartford, Conn., March 26, 8 p. m.—The Connecticut Horticultural Society, County building.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By practical gardener and florist; private or commercial; life experience; good reference. Address J. HODGE, 210 N. Tod Ave., Warren, O.

Situation Wanted—By first-class grower of roses, carnations and general stock; 20 years experience; married; best references. Key 823, care American Florist.

Situation Wanted—As working foreman who thoroughly understands growing; all kinds of cut flowers and general line of pot plants; 18 years' experience; single German, age 32. Address "FLORIST" 429 Halifax St., Raleigh, N. C.

Situation Wanted—By a young man, 23 years of age; speaks three different languages; 10 years' experience; able to take charge of a small or private place; south or western states preferred; first-class references. Address Key 818, care American Florist.

Situation Wanted—By an intelligent, industrious young married man, aged 28 Hebrew; considerable experience in general greenhouse work; capable of taking care of ten or twelve thousand feet of glass. Please give particulars and wages. Key 819, care American Florist.

Situation Wanted—By a young man of good character; wants position as traveling salesman for florists' supply house or bulb house; with some experience; florist by trade; can furnish A1 references; N. Y. or Pa. preferred; ready any time. E. M. DUSINBERRE, Corning, N. Y.

Situation Wanted—As foreman or first-class grower by German florist; can grow roses, carnations, 'mums, lily of the valley and general stock; sober; married; 32 years old; nine years' experience in Germany, six years in the U. S.; best reference. Address NICK TERTSCHEK, 2091 William St., Columbus, Ohio.

Situation Wanted—To take full charge of commercial establishment; good grower of roses, general greenhouse and nursery stock; salary, commission or share; no drinker; married; no children; permanent; good wages, references, state terms with house. Address GROWER, 180 Grand St., Jersey City, N. J.

Situation Wanted—By a single, industrious young man, with 12 years' experience in greenhouses, landscape and decorating; capable of taking charge of a small range of glass, commercial or first-class private place; nationality, American; speaks German and French. R. N. SCHMIDT, 2449 Harrison Ave., Cincinnati, O.

Situation Wanted—As gardener, private preferred; lifetime experience in the management of fruit, flowers and vegetable garden, lawns and drives greenhouses palms, ferns, roses, carnations, chrysanthemums violets and plants for bedding, cut flowers, shrubs and hardy perennials, and landscape work; single; please state wages and terms in first letter. W. C. WOOD, Reeston and 16th St., Richmond, Ind.

Situation Wanted—Where a good man is wanted to take charge of nursery; long experience in growing stock both under glass and outdoors; good at propagating, deciduous stock, evergreens, fruits, etc. First class at making surveys drawing plans and carrying out high class landscape work; permanent place; sober, references, state full particulars and wages with house. Address NURSERYMAN, 180 Grand St. Jersey City N. J.

Help Wanted—Grower of pot plants; German preferred; state experience and wages wanted. JOSEPH VACHA, 2559 47th place, Chicago.

Help Wanted—Good first-class rose grower; married man preferred; good wages for suitable man. Key 824, care American Florist.

Help Wanted—A good helper with 2 or 3 years experience, steady worker and good wages. EDWARD TATRO, 401 E. Iron Ave., Salina, Kansas.

Help Wanted—Married man for position near Chicago; acquainted with nursery and farm work; state age and wages. Address Key 811, care American Florist.

Help Wanted—A gardener and florist to take charge of a small greenhouse and grounds, also vegetable garden. STATE PUBLIC SCHOOL, Owatonna, Minn.

Help Wanted—A good sober, industrious man for general greenhouse work; steady job to the right man. Address JAS HORAN & SON, Florists, Bridgeport, Conn.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to WRIGHT'S FLOWER SHOP, 224 W 4th St., Los Angeles Calif.

Help Wanted—A good designer and decorator; must be experienced and able to give references from past employers and be sober and industrious. None other need apply. Address Key 795, care American Florist.

Help Wanted—Want to correspond with a first-class grower, capable of taking charge of 40,000 to 50 000 feet of glass where a general line of stock is grown for the wholesale and retail trade. Address KEMBLE FLORAL CO., Oskaloosa Iowa.

Help Wanted—A man to act as foreman on truck farm near Terre Haute Ind.; a good position for a good man. Give reference in detail, regarding ability, character, whether married or single. DAVID DICKSON PRODUCE CO., Office: 1107 Commonwealth Bldg., Pittsburg, Pa.

Help Wanted—Designer, decorator and first-class store man; one with wide experience and capable of giving his entire thought and study to his work; permanent position if satisfactory; address stating references, salary expected, with full particulars to Z. D. BLACKISTONE, Washington, D. C.

Help Wanted—Young man to take orders and handle cash in cemetery greenhouse office; must be bright, quick, of good address, and able to furnish unquestionable reference as to honesty. Retail flower store experience is desirable and a knowledge of the growing part of the business will be an advantage; man is wanted for about 3 or 4 months, but there is a possibility of a good permanent place for a man of exceptional worth. W. N. RUDD, Morgan Park, Ill.

Partner Wanted—With $800 to $1000, to take half interest in greenhouse and store; good business; established a year; city of 250,000; want to enlarge. Key 822, care American Florist.

For Sale—In central northern state an old established florist business over 15 000 ft. glass well stocked, about ten acres land $2,500.00 down balance on time to suit purchaser. Key 799, care American Florist.

For Sale—Retail florist business; best section of Philadelphia; established for thirty-five years; busy all the year; good transient and order trade; also decorating and funeral trade; very cheap if sold at once; can show exact profits; best reasons for selling. J. T. JACKSON & CO., 13th and Chestnut Sts., Philadelphia, Pa.

Manager Wanted.

$1200 salary and cottage to hustling greenhouse manager thoroughly posted in all branches for a large retail florist business; 100,000 feet of glass, middle Atlantic states; an energetic man would be given an opportunity to buy an interest. Write with all particulars.

CONOVER CO.,
care American Florist, Chicago.

WANTED.

Some one who will take up a desirable lot, low in price for the purpose of erecting greenhouses on it. The place owned by me is on the outskirts of Cranford, N. J., very favorably situated for a greenhouse business where a good home market can be had and where it is accessible to New York. I am willing to build the greenhouses for the man and then either rent or sell to him on easy terms Key 821, care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

For Sale.

For immediate delivery one No. 6, No. 7, No. 8 Superior Internal Boiler.

Superior Machine & Boiler Works,
125-133 W. Superior St CHICAGO, ILL.

Roses of Quality in Quantity

We can now supply any number, large or small, of **Killarney, Maid, Bride** and **Richmond,** well filled heads, long, medium and short stems.

Carnations

too, can be supplied. The best in any quantity.

Tulips, Daffodils, Jonquils, Violets, Valley, Greens

If it's in Chicago, we can furnish it.

Lilies for Easter

Before placing your order, write us for prices. We shall have a good supply of the finest possible stock.

Remember, the reason our trade is growing is because **our customers' interests are our first concern.** We have the stock, and our prices and service are both right.

ZECH & MANN,

WHOLESALE FLORISTS
L. D. Phone, Central 3284
51 Wabash Avenue

Chicago

Madison, N. J.

The Morris County Gardeners' and Florists' Society held its "carnation night" on March 10. L. J. Reuter of Westerly, R. I., delivered a masterly discourse on the carnation. His fame had come here before him and consequently the hall was packed to the doors. Mr. Reuter gave us the result of his observations while on his western tour and many profitable hints were given. He likes the solid bench for carnations. He uses solid and raised benches at home, so his conclusions were worth something. So far as culture goes, he said the grower has to, to a great extent, work out his own salvation, as soils and conditions vary so much in different localities. The arrangement of his cutting house was new to us. He has it so that he can vary his heat under the bench for freshly put-in cuttings and rooted ones to suit. He takes no credit for the device as it is a borrowed idea, but it works well. A rising vote of thanks was tendered him for his fine effort.

We had a magnificent vase of Alma Ward from the Cottage Gardens Co. The same high standard in the flower is maintained, still everybody wanted a bloom, It was given a vote of thanks. President Taft did not get from Scheiden & Schoos, Chicago, in time to be judged. We were sorry for the delay in transit. Dorothy Gordon from Joseph Heacock, Wyncote, Pa., showed up fine and secured a certificate of merit. Red Seedling No. 1, John S. Green, Morristown, N. J., was certificated last year; a fine thing; vote of thanks. Ruby from S. J. Reuter, a fine full flower but not in sufficient quantities to be judged for certificate. Committee desires to see it again in larger quantity. Vote of thanks. One vase each, Winsor, Robt. Craig and Enchantress from A. R. Whitney (H. B. Vyse, gardener), was awarded cultural certificate. One vase mixed carnations from A. C. Van Gaasbeck, Orange, N. J. (John J. Dervan, gardener), was awarded cultural certificate. Three vases Variegated Lawson, Winsor and White Lawson from Gustav E. Kissell (Charles Steele, gardener), was awarded a cultural certificate. Three vases carnations, Enchantress, Afterglow and mixed from Florham Farms (A. Herrington, superintendent), was awarded a cultural certificate. From same grower came Cattleya Luddemanniana alba, flowering in this country for the first time, awarded a first class certificate of merit. Collection of Cattleya Luddmannana, containing some very fine and distinct types, cultural certificate. Collection of stocks, Beauty of Nice, Queen Alexandra and Crimson King, a well grown lot, cultural certificate. Dr. Leslie D. Ward (Andrew R. Kennedy, gardener), had a well grown lot of cinerarias of a very fine strain, cultural certificate. M. B. Metcalf of Orange (Geo. Wraight, gardener), had some very fine stock, Empress Elizabeth, and was awarded cultural certificate. Totty's Amaryllis Crimson King had very fine flowers. H. A. Barnard from Hugh Low's Nurseries, London, Eng., was among the evening's visitors. He had just completed his forty-eighth year with the same nurseries at 6 o'clock that evening, so it was a kind of an anniversary with him. He made a very happy speech and was cheered. Harry Bunyard is piloting him around, so you can draw your own conclusions. Mr. Bunyard offers $5 for the best flowering plant in flower at our next meeting. April 14, will be rose night and we hope to make good.

E. R.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales.....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of **Evergreens.**

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,
EVERGREEN, ALA.

Southern Wild Smilax

For Easter only $1.75 per 50 lb. case.
We guarantee satisfaction Your order wil have prompt attention.

LOUISVILLE FLORAL CO.,
LOUISVILLE, ALA

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.
EVERGREEN ALABAMA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax. Ferns, Palm Leaves** and all kinds of **Green Goods.**

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

— PRICE LIST —

	Per doz.
American Beauty, Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75

	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	4 00
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00

ROSES, Our Selection, $5.00 per 100

Carnations, Fancy	Per 100 $ 3 00
Good	$ 1 50 to 2 00

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

St. Louis.

PRICES BETTER.

The past week was a most profitable one to the carnation grower if he was fortunate enough to have plenty of stock as prices were high. Roses continue scarce; the only flowers in any way over supply are daffodils and jonquils. This is caused by heavy shipments of outdoor stock from southern Illinois. Violets have advanced in price but not in quality. Some good long tulips are in. Lilies and callas have been somewhat plentiful. Some extra fine sweet peas are in and find ready sales also some extra fine Richmond and Killarney roses.

NOTES.

The monthly meeting of the Florists' Club was held Thursday afternoon, about 20 members being present. Owing to business pressure, President Young was unable to attend and the chair was ably filled by our friend Fred Ammann of Edwardsville, Ill. The committee on crepe pullers reported. It was stated that the daily press would be furnished the methods used by these persons to work on the sympathy of those in trouble and an endeavor be made to put a stop to these practices. The fall flower show was discussed and, in a neat speech J. J. Beneke said the time was now ripe for harmony and that the club was anxious to assist the Horticultural Society in having a show this fall and making it a grand success. A resolution was passed to that effect and this was to be mailed to the officers of the Horticultural Society.

Fire, believed to have originated from a defective flue, destroyed the house of C. B. Sanders on Olive street on Monday. The house contains 13 rooms. Mr. Sanders, his wife and children were at breakfast when the fire started. Most of the furniture was saved, but the house valued at $4,000 was entirely destroyed.

The flower stalls at the Union Market are opening up. Young's and Schray's having quite a display. Dominic Bova has opened up another flower stand on the Broadway side of the market.

THE
J. M. McCullough's Sons Co.
Wholesale Commission Florists.

CONSIGNMENTS SOLICITED.

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Wholesale Flower Markets

ST LOUIS, Mar. 17.

Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 2 50
" " short stems	50@ 1 00
" Bride, Bridesmaid	5 00@10 00
" Chatenay	5 00@10 00
" Ivory	5 00@10 00
" Killarney	4 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	6 00@10 00
" Richmond	6 00@10 00
" Alice Roosevelt	5 00@ 8 00
Carnations, fancy	3 00@ 4 00
" common	2 00@ 2 50
Hyacinths Roman	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Violets	30@ 35
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 00	
Smilax	12 50@15 00

CINCINNATI, Mar. 17.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Tulips	4 00@ 5 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Mar. 17.

Roses, Beauty, special	6 00
" " fancy	4 00
" " shorter	2 00@ 3 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum, per doz.	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 4 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00

MILWAUKEE, Mar. 17.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	1 50@ 3 00
Daffodills	2 00@ 3 00
Lilium Giganteum	12 50
Lily of the Valley	3 00@ 4 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch, 25	35
" Sprengeri, "	25
Ferns, Common, per 1000	2 00
Galax, per 1000	1 50
Smilax, per doz.	1 75

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Who esale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUT Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Julius Schooffer who recently opened a store at 111 North Sixth street is about to vacate this location as it has not proved a very profitable stand.

J. A. Valentine, president of the S. A. F. was here the past week and saw the sights accompanied by Otto G. Koenig and Fred Meinhardt.

Al Gunz, salesman at Angermueller's is a very busy young man and is a great worker, taking special care of the interests of his employes.

F. W. Bruenig is very busy with decorations for store openings.

W. F.

AURORA, ILL.—Frank Shaffer of Chicago, until two years ago a resident of this city, has purchased a half interest in the Aurora Greenhouse Co. from John H. Newhall and will return here. For his interest in the company Mr. Shaffer paid $3,000.

Easter Lilies **Longiflorum Giganteums.** Our reputation as to these flowers for Easter has been established for years. Grown by the most critical grower from the most expensive bulbs. Packed at the greenhouse and shipped in original packages direct to the consumer. No bruised or inferior flowers. You can't afford anything but the best in this line at Easter time. Get our prices. They are no more than you will pay other places for an inferior article.

Our White Lilac in now of the larger variety—especially fancy stock, and the crop is large enough to warrant the special low price we now offer it. **$1.00 per bunch.**

If you do not receive Our Cut Flower Price List regularly and are interested, drop us a line.
Also large supply of all other Seasonable Cut Flowers. Headquarters for both Single and Double Violets.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

MARKET ACTIVE AND PRICES STIFF.

The market the past week has been a very active one with fairly good orders and a rather short supply of stock and consequently high prices. A part of this is due to the demand for St. Patrick's day, which as a flower day has developed to a truly remarkable extent in the past three or four years. The sale of carnation green dye has been one of the aids to this as retailers very generally this year have purchased the dye and ordered 100 or 200 white carnations to experiment upon. As a result white carnations have been in very heavy demand, with prices as high as $4 per 100 for the best white. This exploitation has affected the sale of colored carnations as well, both to help out in the window displays and to meet the increased demand for flowers generally. At the same time carnations have not been coming in so freely this week as previously, the dark cold weather having to a certain extent shut off the supply. Roses too have been in good demand with prices somewhat higher. White stock in this line has also been used for dyeing not only with the St. Patrick's day green but also with the newly introduced yellow. Bride roses so colored are made by some retailers to take the place of Perle roses, which are very scarce. The only trouble with the yellow dye, beyond the fact that some florists object to this perversion of the laws of nature, is the slight yellow tinge it gives the leaves. American Beauty roses continue very scarce. Bulbous flowers have also been in very good demand. Some outdoor daffodils are now coming in and are being readily taken up. Sweet peas are in very heavy supply and prices are consequently rather demoralized. This is too bad as most of the stock is of excellent quality. Violets are not in such heavy supply as they have been and are now in fair demand. Easter lilies are very scarce.

WEDDING BELLS.

Harry M. Lubliner of the firm of Lubliner & Trinz was married Tuesday, March 16 to Miss Beckie Harmon at the bride's residence, 4723 St. Lawrence avenue. The bride carried a shower bouquet of lily of the valley and white orchids. The house was elaborately decorated with Asparagus plumosus and Mrs. Marshall Field roses. The table decoration was also of Field roses. Mr. Lubliner on Monday evening gave a bachelor's dinner at Rector's which was very much enjoyed by a select circle of friends, including among others, Alderman Peter Reinberg, Leonard Kill, N. J. Wietor, A. Spencer, Wm. Kidwell, Jas. Andrews, J. Trinz, Wm. Lubliner, and Joseph Foerester.

ENGAGEMENTS.

Wm. Feniger, of Toledo, was represented on this market last week when the mail brought a solitaire diamond ring to Miss Lily Bloom, the young lady who types Bassett & Washburn's letters.

Tom Fogarty, buyer for O. J. Friedman for the past 10 years, has at last been ensnared by Dan Cupid, it being rumored that he will be married at an early date.

NOTES.

The bowling committee of the Florists' Club has issued a call for the bowlers to gather at Bensinger's alleys, 118 Monroe street, on Friday evening of this week and the ladies are invited. The season promises an unusually interesting one and it is confidently predicted that the local team going to the S. A. F. convention at Cincinnati this summer will run up some high scores.

C. S. Griffith, of 160 North avenue, is to invade the fashionable north shore district by opening a well appointed place in the Plaza hotel on or about April 1. He intends to carry a full line of all seasonable novelties, table favors and the like. The new place will be known as the Plaza Flower Shop.

J. S. Haskins, one of the pioneer florists of this city, who opened a store at State and Lake streets in 1866, died February 28, at the age of 89. J. W. Ingalls of Rockford is deceased's nephew.

Vaughan's Seed Store reports a much larger demand this spring than heretofore for spring flowering bulbs and tubers, such as gladioli, tuberoses and begonias.

Andy McAdams reports fine gulf stream springtime revels at Melbourne, Fla., and intimates that he can unfold some fishy tales on his return.

John J. Davis, assistant to the state entomologist, is to have charge of a new experiment building at Oak Park and will commence work at once.

N. C. Moore & Co., are showing some very fancy double stocks, including pink, white and lavender.

Vaughan & Sperry will move, May 1, to the basement of 52-54 Wabash Avenue.

(OTHER CHICAGO NOTES ON P. 415.)

Long Distance Phone, Central 6004.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen,
—FLORISTS' SUPPLIES—

FOR EASTER.

We have a large stock of all novelties, etc., including fancy Baskets, Waterproof Crepe, Two Tone Crepe, Pleated Crepe Adjustable Waterproof Crepe Pot Covers Chiffons and Ribbons, all colors. Birch Bark Basket and Canoes for Air Plants, etc.

Just received a fresh supply of Japanese Air Plant. Catalogue free.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO

WRITE FOR SPECIAL PRICES.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

PETER REINBERG,

35 Randolph Street, CHICAGO.
Phone Central 2846.

Largest Grower in the world.....

Will Take Best Care of Every Order.

1,800,000 Feet of Glass.

PRICE LIST:

Carnations $2.00 to $2.50 per 100

AMERICAN BEAUTIES	Per doz
Extra long stems	$5 00
36-inch stems	4 00
30-inch stems	3 00
24-inch stems	2 50
20-inch stems	2 00
15-inch stems	1 50
12-inch stems	1 00
Short stems	75

	Per 100	
RICHMOND and KILLARNEY Select	8 00 to	10 00
Medium	4 00 to	6 00
GOLDEN GATE	4 00 to	8 00
PERLE	4 00 to	8 00
CHATENAY	4 00 to	8 00
BRIDE and BRIDESMAID	4 00 to	8 00
SUNRISE	4 00 to	8 00
UNCLE JOHN	4 00 to	8 00
IVORY	4 00 to	8 00
HARRISII LILIES	12 00 to	15 00
LILY OF THE VALLEY	4 00 to	5 00
VIOLETS	75 to	1 00
ADIANTUM	1 00 to	1 50
ASPARAGUS	50c to 75c per bunch	
FERNS	$2 50 per 1000	

ROSES, Our Selection, short to medium stems, all fresh stock, $4.00 per 100.

WEILAND & RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in **Violets, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

Mention the American Florist when writing

"THE BUSIEST HOUSE IN CHICAGO"

Your orders can be filled in the **best possible manner** with all varieties of **Cut Flowers** by

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Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L.D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers

All telegraph and telephone orders ——given prompt attention.——

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO Mar. 17.

Roses Beauty, extra select		5 00
" " 36 in		4 00
" " 30 in		3 00
" " 20 to 24 in	2 00@	2 50
" " 15 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid select	10 00@	12 00
" " " medium	6 00@	8 00
" Chatenay, select		10 00
" " medium	6 00@	8 00
" Golden Gate, Uncle John	4 00@	8 00
" Kate Moulton	4 00@	8 00
" Killarney, select	10 00@	12 00
" " medium	5 00@	8 00
" Mrs. Marshall Field, select	12 00@	15 00
" " " medium	6 00@	10 00
" Perle	5 00@	8 00
" Richmond extra select	10 00@	12 00
" " medium	5 00@	8 00
Carnations	1 00@	3 00
Callas ....per doz.	2 00@	2 50
Cattleyas ($9 00 per doz.)	60 00@	75 00
Daisies	50@	2 00
Gardenias ....per doz	6 00	
Hyacinths, Roman	3 00@	4 00
Lilium Harrisii ....per doz.	2 00	15 00
Lily of the Valley	3 00@	4 00
Pansies	1 50@	2 00
Stevia	1 00@	2 00
Sweet Peas	75@	1 50
Tulips		3 00
Violets, single	50@	1 00
" double	50@	1 00
Adiantum	75@	1 00
Asparagus Plum, strings..each		50
" sprays	2 00@	4 00
" Sprengeri	2 00@	4 00
Boxwood ....per bunch		35
Ferns, fancy ....per 1000		2 00
Galax, green .per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild per 50 lb. case		5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

New York.

TRADE QUIET.

There is little change, worthy of note, in the condition of the cut flower market. Both wholesalers and retailers agree that it is very quiet. While there has been no glut or great surplus during the past week, there was no scarcity of anything. The conditions of supply, since Christmas, have been as near ideal as we may ever expect to see them. American Beauty roses, while not in surplus ,have been plentiful enough to supply all demands at 50 cents and 60 cents for specials. The same may be said of Richmond, Killarney, Bride and Bridesmaid. A few very special Richmonds with stems of the strong proper-50 cents each, but that is not an index tion of fancy American Beauty, bring to the market, as very many more go at 15 cents to 20 cents. Killarney has been doing well when it sold for 10 cents and 12 cents, and 10 cents has been the top figure for special Bride and Bridesmaid. My Maryland and Mrs. Jardine are now arriving in appreciable quantities and bid fair to soon become important factors in the wholesale district. There are plenty of good carnations, but it is hard to get more than three to four cents for the best. Violets are being sold by thousands on the street corners. Yellow narcissus is also prominent in the trays of the street venders. Baby pots of shamrock may now be bought in the leading retail stores at very reasonable prices. We judge that Harris of Philadelphia and his able superintendent, Mark Mills, are to some extent in the game.

March 15.—The weather is fair and there seems to be a prospect of a good week. Reports from wholesalers are conflicting, but as a whole, the demand is fair for the beginning of the week. Indications point to a large increase in the supply before Saturday. Shamrocks are much in evidence. Very fine stock of the yellow narcissus, Emperor, is now reaching the wholesalers. This stock brings $2.50 to $3.50 per 100. The Murillo tulips are also very noticeable and sell well at $3.50 and $4.00 per 100.

FUNERAL OF LOUIS M. NOE.

A number of prominent wholesalers of this city attended the funeral of the late Louis M. Noe at Madison, N. J., March 14. The funeral was very largely attended by the leading citizens of Madison and there were many beautiful floral tributes. Addresses, highly eulogistic of the character and life work of Mr. Noe were delivered.

NOTES.

The Retail Florists' Association of Brooklyn, had its annual dinner and theater party at Raube's on Nevins street and a vaudeville performance at the Orpheum, Tuesday, March 16. The affair was a success. The committee in charge was: Hugo H. Jahn (chairman), Robt. G. Wilson, Frances B. Ross, Elizabeth C. Thinnes.

Attention is called to the announcement of the Fruit Auction Co. in this issue. John P. Cleary, the plant auctioneer for this concern, has recently returned from a tour of the horticultural centers of Europe. The stock that will be offered at these sales can be depended upon to give good value to customers.

In the show windows of J. H. Small & Sons' Broadway store during the past week, an exhibit that attracted much attention was a large vase of Toreador, the vareigated carnation originated by H. Weber & Sons Co., Oakland, Md.

Ex-president Traendly of the S. A. F. started on March 13 for Cincinnati, where we understand he will attend a meeting of the executive committee. He expects to take in the rose show at Buffalo on his return.

Geo. Hildebrandt, head salesman for John Young, who was suddenly stricken on March 6 with an attack of acute indigestion, is, we are glad to say, on the road to recovery.

The death of Louis M. Noe of Madison, N. J., came as a shock to his many friends in this city. Mr. Noe's kindly personality will long be remembered.

Louis Schmutz has three houses of lilies coming on in fine shape and, apperently, just right for Easter.

Visitor: H. A. Barnard, representing Hugh Low & Co., London, Eng., going west.

Retail Florists' Protective Association.

ED. AMERICAN FLORIST:—

Because of the many rumors current in the trade in this vicinity respecting the aims and purposes of the Retail Florists' Protective Association of New York, recently formed, I beg of you the courtesy of a little space in your valuable paper in order to explain some of the main objects of this association.

For a long time retailers of New York have felt that they were in need of co-operation. They are perhaps the only commercial men who have no trade organization to elevate their business, to correct abuses, and to suggest from time to time the means for amelioration. It was these circumstances which called forth the Retail Florists' Protective Association, and which will dictate its policy.

Some people have thought that the association had a grievance because the wholesale or commission men are enforcing short credits. Quite the contrary. We believe that moderately short credits are the best for the retail floral business, and while we would not assume to question any just rule, which any one may make for the conduct of his business, we believe that any rule established should be a just one, and should be impartially enforced.

Again, it has been said, that the association is antagonistic to commission houses. This is entirely erroneous. In a large city like New York, the retail flower business could not be conducted without commission houses, nor could the growers dispose of their superfluous and lower grade stock without the commission man. But this association will ask as emphatically as it can, that the commission man confine himself to his legitimate business; and refrain from competing with his own customers; that he keep out of the retail part of the work and not undermine the retailer, who is, after all, the mainstay of his business. This position is eminently fair and just, reasonable and business-like. It should appeal to the commission man, no less than to the retailer. And we feel sure that the retailers throughout the length and breadth of this land will adopt this position to a man, and that the commission man, once he appreciates the equity and justice of the matter, will freely and voluntarily take the same stand.

We believe it to be the grower's duty as well as his self-interest to discourage competition by commission men in selling at retail. Upon the business of the retailer depends the return to the grower. By injuring and impairing the retailer's business, the grower must and does necessarily suffer. Therefore, the grower, no less than the commission man, is in duty bound to protect those from whom he derives his support and revenue, from unfair competition. This duty should compel the grower and the commission man to take active steps, not to stand by and passively tolerate a practice which strikes at the heart of the trade.

Retailers have suffered much from fraudulent and delinquent customers. We mean to provide against this by a central agency, and shall endeavor to uplift the general trade by a better standardization of prices. By protecting the retailer against bad debts, we feel that we are in turn protecting the wholesaler, the grower and the commission man, and here again it is but fair that the retailer receive in turn that measure of fair protection which will eliminate unjust competition on the part of those with whom he deals.

We hope to secure a better enforcement of the law as to the sale of flowers on the streets by unlicensed venders. The growth of such practices is detrimental not alone to us, but to other men in the trade. We believe that if the growers, the men having large establishments and investments representing many thousands of dollars, were to meet the men who distribute their products to the consumer, and who know the demands and conditions of the trade, it would be of great mutual advantage and productive of highly satisfactory results to both.

There are many other matters which can well be taken up and developed to the betterment of the retail floral business in New York and if the members of the retail branch of this trade will come forward and assist us with their numbers and their counsel, we feel confident that all retailers and their business will be materially improved, and that this improvement will reach over to the grower and the commission man, and that a more harmonious equitable and mutually beneficial condition will prevail in the trade generally.

CHAS. A. DARDS, Pres.

European Horticulture.

FROM THE BRITISH TRADE PAPERS.

NYMPHAEA PYGMAEA HELVOLA.—One of the most delightful of all the smaller water lilies is Nymphæa pygmæa Helvola, a dainty little flower, which appeals to all lovers of the beautiful as they see it floating on a little pool or tank, its prettily shaped leaves and bright little soft yellow flowers fascinating all who see it for the first time, except, it may be, those who are devotees of size in flowers. Only an inch or two across, those of Helvola are almost fairy-like among flowers of its class. This bright little water lily is absolutely hardy, and can be grown in water of a depth of from 12 to 18 inches. A little good loam at the bottom will suit it, and planting may be effected from March until May.

SCENTED BEGONIAS.—There are very few begonias with fragrant flowers, and those that have a distinct odor seem to lose it under the influence of hot sunshine or dry atmosphere. It is in early morning that the fragrance is most noticeable. Begonia Baumanni, introduced from Bolivia about 1866 by Dr. Sace, and first raised from seed by E. N. Bauman, of Bolwiller, was purchased by Lemoine, of Nancy, and distributed by him in 1892. This produces flowers that are more or less fragrant. This has been used for crossing with the double tuberous varieties, and has resulted in a few varieties that possess a little fragrance. But we appear to be a long way yet from garden varieties of tuberous begonias that are decidedly and continuously fragrant.

ARABIS SERRATA.—One of the rarer arabises, which will probably be seen in flower in this country this spring, is Arabis serrata. This is a little known Japanese species, of very close-growing habit, and having small leaves in dense rosettes. The flowers are snow white, and, if equal to the descriptions given, it will be a plant which will be an acquisition to rockeries. It comes from the mountains of Japan.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave. & W. 26th St., New York.

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CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

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Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Mar. 17.

		Per 100
Roses, Beauty,	special	50 00@60 00
" "	fancy	35 00@40 00
" "	extra	25 00@30 00
" "	No 1	12 00@15 00
" "	No. 2	5 00@ 6 00
" "	No. 3	2 00
" Bride, Bridesmaid,	extra and special	6 00@10 00
	No. 1	3 00@ 5 00
	No. 2	2 00
" Killarney,	special	12 00@ 15 00
	extra	6 00@ 8 00
" Richmond		2 00@15 00
Carnations	fancy and special	3 00@ 4 00
"	common	1 50@ 2 00
Callas	per doz.	75@ 1 00
Cattleyas		40 00@60 00
Daisies		50@ 2 00
Gardenias	per doz.	1 00@ 5 00
Lilac, Cut	per bunch	50@ 1 00
Lilium Longiflorum		6 00@ 8 00
Lily of the Valley		1 50@ 2 00
Mignonette	per doz.	30@ 60
Narcissus (Paper White)		2 00@ 2 50
" (Yellow)		1 50@ 3 50
" (Southern)		20@ 30
Sweet Peas	per doz bunches	1 00@ 1 50
Tulips		1 50@ 3 00
Violets		20@ 40
Asparagus	doz. bunches	2 00@ 3 00
Smilax		8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

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Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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HORACE E. FROMENT

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American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York
To out-of-town Florists: We are in the Heart of
And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets

CHARLES MILLANG,

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Telephone 7062 Madison Square.

Philadelphia.

VERY LITTLE DOING.

The past week has been about the slowest in point of business activity during Lent. The weather was bad for shopping, interfering greatly with this class of trade which, at this season, is so important. Pleasant weather during the early spring is a great help alike to the stores and the street men, particularly the latter, who are not afraid to plunge when favorable conditions prevail and much of the surplus is moved in this way. Prices have softened considerably and great bargains are offered the quantity buyer. In spite of the general tendency American Beauty roses are held very high when salable, and when a bit open are sold in job lots to the fakirs at their price. This certainly seems poor policy. A customer being offered this rose in the store at from $9 to $12 per dozen by his florist and seeing them on the next street corner at 20 cents each or less, must think he is being roasted. It is all right for the dealer to keep the market up when conditions warrant, but he should also be as quick to see the change and arrange his scale to the new level as it is made. Killarney is in great form and some grand flowers are seen. It is firmly set in public favor and it will take a better rose than any now in sight to take its place. Very fine Mrs. Jardine is also offered but the flowers stand in the jars while the Killarneys are almost invariably given the preference. Carnations are up to the top notch in quality but the competition of the low priced roses and the daffodils affects the demand and prices rule low. Sweet peas are great favorites and much excellent stock is seen, all the stores carrying large numbers. Southern daffodils are in and are seen in every street man's stock. $3 to $4 per 1,000 is about the price. Violets are very plentiful and prices rule low; the large singles are the most popular and sell better than the doubles. Quantities of shamrock are seen on every hand.

THE DREER CO.

The Henry A. Dreer Co. is very busy. A visit to their Riverton nurseries will astonish the average man, the extent of the business being tremendous. Orders for spring delivery are coming in larger quantities with almost every mail. Mr. Strohlein says they have more orders booked now for future delivery than ever before. A walk through the houses with that great plantsman, J. D. Eisele, is a treat at any time, such a fund of knowledge and so much to show the visitor who never gets done expressing his admiration for the great stock exposed to view. A specialty is Cocos Weddelliana, great blocks of which are seen in all sizes from plants in seed pots up to single specimens four feet high and made up plants three and four to a pot, all showing great vigor. Mr. Eisele says they are having a great demand for the large specimens of this variety as they grow in favor the more they are seen. What Mr. Eisele calls the palm of the future, Phoenix Roebeleni, is also seen in large quantities, quite a block being in 6-inch pots. He says the Belgians are planting the seed in large quantities and will soon have plants of good size to export. Kentias, whole ranges full, were seen in a splendid assortment of sizes. Latanias, which variety many growers have for the past two years almost discarded, are seen here by the thousands; fine healthy stock.

An interesting feature was the way in which the poor circulation in the hot water pipes in one of the ranges was overcome. A centrifugal pump was placed on top of the bank of boilers and connecting with the main it sent the water around the entire circuit and back to the boiler with only a loss of two degrees, as they had often tested the temperature which on going out registered 150° and on returning 148°. The evenness in the temperature of the house is now most satisfactory, all parts being well heated, and this with quite a saving of coal over the cost of the electricity that was required to run the motor. Outside, the herbaceous stock was being uncovered, hundreds of thousands of pots in sizes from 2 to 4-inch according to the sizes required for the different plants were seen to be in excellent condition, having wintered exceedingly well. Mr. Eisele says, handled in this way they give much better satisfaction than when lifted in clumps from the open ground. Ferns galore are here, millions of them; an immense quantity now go out in flats for florists in all parts of the country to grow on for themselves. There are many other features that will have to be seen to be appreciated and no florist can visit the establishment without receiving inspiration and encouragement to work for greater things.

NOTES.

Pennock Bros. have the premier window. Two large gilt wooden harps rising from baskets of Killarney roses are the main features, while the bottom of the window contains a large number of small oval birch baskets or boxes to which are attached at the back small wooden gilded harps. The harp stands about eight inches above the box which is about two inches wide by four long and filled with shamrock. It is a pretty novelty, one of their own creations, and should sell well.

The Leo Niessen Co. is showing something extra in choice Killarney. They say the lower prices are welcomed by all as buyers take in larger quantities and much stock is moved for special price sales.

A number of the trade are thinking of a winter place in the Isle of Pines because of Robt. Craig's enthusiastic description of that island and its possibilities.

The commission men have their hands full in moving the large stock coming in and say that while it keeps them busy they have had no great surplus as yet.

E. Reid says business is healthy; lots of flowers coming in with a demand that takes them all at his special moving prices.

Wm. McKissick & Bros. are having a run on choice single violets. Their Princess are certainly fine.

Robt. Craig celebrated his sixty-second birthday March 18.

K.

Boston.

TRADE BETTER.

A slight improvement in trade has been noted during the past week. A grand assortment of stock is now being presented. Preparations for Easter are being well studied from all points and this year, more than ever, this celebration is of the utmost importance to flower dealers. No efforts will be spared to grasp the numerous advantages presented during the short time which remains. The general feeling is one of cheerfulness and optimism. A well filled market is running evenly during the freakish demand, each day opening a new outlet or receiving sufficient stock to balance any scarcity prevailing. The rose supply is somewhat limited with Killarney in full sway and further forcing its way into the graces of the public. White Killarney is being cautiously distributed as but a small portion of the demands can be filled. That it easily outshines any white rose yet seen is agreed by all who have received a share. American Beauty is more plentiful although at top figures. A drop in the present scale is looked for the coming week. Richmond is rather freakish and shows no disposition to compare with Killarney at the present writing. A limited quantity of first class carnations is available and prices hold well. Easter lilies, antirrhinums, lilac and numerous other spring specialties are regularly received and find their way to the avenues of consumption with but little forcing. Azaleas of many types; lilacs purple and white; geraniums, genistas, lily of the valley, cyclamens and other stock furnish a splendid display of plants for the spring trade.

NOTES.

The window display to be seen at the Tremont street store of Thomas F. Galvin is unique as well as one of the most attractive of the season's originations. A miniature cottage and surrounding spring garden, perfect in every appointment and arranged with the most artistic skill, draws thousands to this corner every hour of the day. All varieties of spring bulbous flowers are arranged with characteristic taste, and a keen sense of the landscaping effects. An occasional arbor of miniature shrubs helps the arrangement.

The list of prizes subscribed for competition at the exhibition of the Music Hall Market has been increased by the addition of a cup offered by Albert Roper for the best vase of 100 Fair Maid carnations, and another by John Barr for the best vase of 100 Queen. This competition is open to the growers of both markets and should bring out a good display.

W. H. Elliott is at present cutting Killarney roses equal, if not superior, to the best ever grown by him and he is an acknowledged leader of the cultivators of this rose.

Fred Hardy of Natick is handling a line of superb antirrhinums. It is a superior spring novelty and a great favorite with all the buyers.

Visitors: J. J. Karins, Philadelphia, J. S. Dykes, New York.

B.

Massachusetts Horticultural Society.

SPRING FLOWER SHOW.

The annual spring flower show of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, Wednesday to Sunday, March 24 to 28. In addition to the usual displays of plants, flowers, fruits, and vegetables, a real Japanese garden with all its accessories will be shown which will be carried out on a scale large enough to allow visitors to walk through it and inspect the various things used in the construction of these famous gardens.

This is a feature never before attempted in this country on so grand a scale. All the materials composing it have been specially imported from Japan; even the trees, shrubs, and flowers being Japanese. Music will be furnished by a ladies' orchestra every afternoon and evening from 3 to 5 and from 7:30 to 9:30 o'clock.

WM. P. RICH, Sec'y.

WEST MANCHESTER, MASS.—C. V. R. Crosby will build an addition to his greenhouse 17x29 feet in dimension.

SARATOGA SPRINGS, N. Y.—Christian Dehn has made a proposition to place flowering plants on all the principal street corners and prominent places, requiring only that the authorities grade the lots. Mr. Dehn has shown much interest in the beautifying of the streets and his latest offer shows him to be a public spirited citizen.

LAKE GENEVA, WIS.—At the last meeting of the Gardeners' and Foremens' Association the election of the officers and board of directors was the chief business. The election resulted as follows: A. J. Smith, president; James Livingston, vice-president; Albert H. Reupke, secretary; Wm. Wahlstedt, treasurer; A. J. Smith, Axel Johnson, Frank Kuehne, Wm. P. Longland, James Livingston, Wm. Wahlstedt, Robt. Sampson, Miles Barrett and Albert H. Reupke, directors.

Medium Grade Roses,
$5.00, $6.00 and $8.00 per 100.
We now have an extra good supply of medium grade stock, **Beauties, Richmond, Killarney Brides and Maids,** and can give you excellent value for your money.

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Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us
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Grafted and Own Root Rose Plants
American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.
—Send For Prices.—
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All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.
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ABSOLUTELY THE BEST POSSIBLE SERVICE.

FANCY **Roses** FANCY **Violets**
Orchids, Gardenias.
McCALLUM CO., Inc. Pittsburg

Worcester, Mass.

The first exhibition of the season of the Worcester County Horticultural Society was held in Horticultural Hall March 4. It was far ahead of the exhibition of last year both in quality and quantity of flowers and plants shown, and the attendance was very good considering the weather. The features of the exhibition were two tables of orchids from Mrs. John C. Whitin's and Mrs. Marston Whitin of Whitinsville and Lange's roses; L. C. Midgley also had a table of roses and carnations that was much admired. Mrs. Thomas Pollard displayed a Merry Widow hat that was made of moss, berries and trimmed with Enchantress carnations that was much admired. The awards were as follows:

Cut flowers.—E. W. Breed, first; H. F. A. Lange, second; Allyne W. Hixon, third.

Carnations.—H. F. A. Lange, first; L. C. Midgley, second; H. A. Cook, third; Mrs. John C. Whitin, fourth.

Orchids.—Mrs. J. C. Whitin, first.

Azalea Indica, one plant.—H. F. A. Lange, first; E. W. Breed, second.

Azalea Indica, three plants.—E. W. Breed, first; H. F. A. Lange, second.

Begonia Gloire de Lorraine.—H. F. A. Lange, first.

Cineraria.—E. W. Breed, first.

Cyclamens, four plants.—H. F. A. Lange, first; E. W. Breed, second.

Cyclamen, one plant.—H. F. A. Lange, first; E. W. Breed, second.

Hyacinths.—E. W. Breed, first; H. F. A. Lange, second.

Primula Sinensis.—H. F. A. Lange, first; E. W. Breed, second.

Primula, any other variety.—H. F. A. Lange, first; E. W. Breed, second.

Gratuities.—H. F. A. Lange, roses; E. W. Breed, schizanthus; L. C. Midgley, roses and carnations; H. F. A. Lange, tulips; Geo. McWilliam, display of orchids; H. F. A. Lange, Baby Dorothy roses; Mrs. Thomas Pollard, English wallflowers.

Chas. W. Wood gave a very interesting and instructive lecture at the Society's meeting on "Rambles Through the Middle West." The speakers for next meeting are Hal. B. Fullerton and Mrs. Fullerton of Huntington, L. I. Mr. Fullerton will speak on "The Lure of the Land." Mrs. Fullerton's subject will be announced later. Both are considered exceptionally good speakers and their coming is anticipated with much pleasure.

R.

Wholesale Flower Markets

PHILADELPHIA, Mar. 17	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac ..... per doz..	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets, single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Mar. 17.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	3 00@10 00
" Chatenay	3 00@10 00
" Killarney	3 00@10 00
" Richmond	3 00@10 00
Carnations	1 50@ 2 50
Cattleyas	75 00
Daffodils	2 00@ 2 50
Lilium Longiflorum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus Paper White	2 00@ 3 00
Sweet Peas	50
Violets, single	50
" double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, Mar. 17.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

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The finest in this Market.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

Cut Flowers or Designs
Will be delivered for the Trade on Wire or Mail Orders in Best Quality and Prices.

Hoffman FLORIST
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Prompt and Careful Attention given to all Mail and Telegraph orders.

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Can be relied on to fill all mail, telegraph or cable orders.

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Canada's Best Known and Most Reliable Florist.

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We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

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New Orleans

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Wire or mail. Highest Grade Stock Only.

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Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable. Cable address: "Daniels, Denver."

Nashville, Tenn.

Joy Floral Co.

610 Church Street.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

Always mention The American Florist when you order stock.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

GREAT BRITAIN

WILLS & SEGAR,

Royal Exotic Nursery,

Onslow Crescent. S. Kensington, London

FLORISTS TO HIS MAJESTY THE KING.

We shall be pleased to carry out commissions from our American confreres to deliver CUT FLOWERS, FLORAL BASKETS, DESIGNS, etc., to any part of Great Britain.

Cablegrams—"FLOSCULO, LONDON."

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in NORTHERN OHIO.

Dayton, O.

Matthews,

—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

GEO. M. KELLOGG ESTATE,

906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

Atlanta, Ga.

ATLANTA FLORAL CO.

41 Peachtree Street.

Detroit, Mich.

John Breitmeyer's Sons

Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

Mobile, Ala.

Chatogue Greenhouses

TWO ACRES UNDER GLASS. ONLY HIGH CLASS FLORAL WORK SOLICITED.

Orders to be delivered at short notice in or near Mobile or New Orleans will be executed with fresh stock from our mammoth plant by our own artist at Mobile, or Mr. U. J. Virgin, New Orleans Orders by telegram at our expense.
Reference: R. G. Dunn & Co.

Milwaukee, Wis.

C. C. Pollworth Co.

Will take proper care of your orders in WISCONSIN.

Kansas City, Mo.

Samuel Murray

...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

St. Louis, Mo,

Write, Wire or Phone Your Orders to

YOUNGS

1406 Olive Street,
Regular discount allowed on all orders, either Plants or Cut Flowers.
Phones Bell, Main 2306, Kinloch, Central 4981

Anderson, S. C.

THE ANDERSON FLORAL CO.

533 MARSHALL AVE.

Alexander McConnell,

571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.

Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
Western Union Code.

Galveston, Tex.

Mrs. M. A. Hansen

—FLORIST—

Special attention to Telegraph or Telephone orders. Phone 1912.

St. Paul, Minn.

HOLM & OLSON,

ST. PAUL.

THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

St. Paul, Minn.

L. L. MAY & CO.

Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Owatonna, Minn.

Clinton Falls Greenhouses,

(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

Terre Haute, Ind.

John G. Heinl & Son,

129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

COUNTER TRADE is about up to last year.

W. GRIESINGER, Ghent, Belgium, sailed from New York, March 13.

LEM W. BOWEN of D. M. Ferry & Co., Detroit, Mich., is in California.

J. C. VAUGHAN, Chicago, and Mrs. Vaughan spent the week end at Atlantic City, N. J.

SWEET PEAS, moonvine, asters and nasturtiums are among the lively pick-up items from catalogue houses.

IN the grass seed line, red clover is a little easier; alsike, white clover and alfalfa, fancy grades, are firm.

AN important resolution upon the tariff, passed at a joint meeting of committees representing the various trade organizations, is noted on page 378.

THE mail order business in the west is reported a little dull owing to the cold weather. The last few days, however, have shown considerable improvement.

THE amount of cucumber and onion seed now offered in surplus lists, shows many were needlessly frightened about their supplies in these classes of vegetables last fall.

HOUSE BILL No. 396, introduced to the New Hampshire legislature by Mr. Marden of Chichester "to regulate the sale of agricultural seeds" was signed by the governor, March 10.

VISITED BUFFALO.—Kirby H. White, Detroit, Mich.; F. R. Pierson, Tarrytown, N. Y.; Chas. H. Vick, Rochester, N. Y.; J. D. Eisele, Philadelphia, Pa.; J. C. Vaughan, Chicago.

CHICAGO.—The last few days has seen a sharp upturn in the price of onion sets. Wednesday's prices were rather firm,—around $1.75 for reds, and yellows, and $2.75 to $3 for whites.—Visitor: Henry Nungesser, New York.

PHILADELPHIA, PA.—Burpee's 230 employes tell the tale.—Michell is very busy with counter trade at the old store.—Skidelsky & Irwin report business good.—Dreer's departure in catalogue cultural instructions has increased trade. Visitor: E. S. Miller, Wading River, N. Y.

NEW YORK.—The counters of the down-town districts begin to show the presence of buyers in liberal numbers and heavy truck loads are moving out.—Eastern mail order houses expect their "big Monday," of the season March 22.—J. C. Vaughan, who came on to attend the funeral of E. V. Hallock, remained throughout the past week with headquarters at his Barclay street store. He said he hoped to be able to visit the rose show at Buffalo on his return trip. Other Visitors: John A. Ruppert of Henry A. Dreer, Inc., Philadelphia, Pa.; Thos. J. Grey and P. M. Miller of Thos. J. Grey & Co., Boston, Mass.

Grass Seeds.

ED. AMERICAN FLORIST:—

Replying to the letter, which Albert McCullough of J. M. McCullough's Sons Co., Cincinnati, O., addressed to you regarding my notice about the inaccuracy of American blue grass dealers, I beg to refer all firms interested in this matter to an article which appeared in the Grain Dealers' Journal under date of February 10, page 178, in which Professor Galloway, chief of the Bureau of Plant Industry at Washington, D. C. says: "Badly adulterated Kentucky blue grass seed and orchard grass seed are still offered in the market in considerable quantity etc." I think this is the best proof for my remarks!

I have been many years in the seed trade and am well aware of the manner of doing business in the United States; I know there are reliable dealers and am glad to say I have my regular suppliers of the different sorts I am importing from your side; but, to my regret, I have also to state that there are many others, who do not mind supplying the European seedsmen old or mixed seed as pure new crop. This refers especially to Kentucky blue grass, of which there are still large stocks of the crops 1905 and 1906 in the hands of some dealers.

Mr. McCullough is mistaken, in saying that the European importers do not look upon the quality of the seed they buy, but only upon the lowest price; this is not at all the fact. My first principle is always to buy the best obtainable seed, guaranteed new crop and of reliable germination. I have to guarantee the percentages of purity and germination to my clients and therefore must obtain the best possible seed, when filling my requirements. To my regret, I have to state, that the American dealers do not give any guarantee as to their deliveries and that they cannot yet see their way to give a certain percentage of germination, but perhaps later on they will do so, especially as many European seedsmen are now making arrangements to avoid incorrect deliveries, as those of the last few years, when Kentucky dealers supplied old or mixed Kentucky blue grass seed under the name of guaranteed new crop.

I have made many tests with new crop Kentucky blue grass and could ascertain that the pure new seed this fall has shown a germination of at least 80 per cent, so that a germination of 80 per cent can easily be taken as the average of the crop 1908. Some dealers, from which I and other German dealers bought a few carloads, have sent samples of the bulk showing a germination of more than 80 per cent and later on the delivery had only a percentage of less than 50 per cent. This happened the last three years. Many of the European seedsmen have had such experiences and they all agree with me, that the trade with the United States dealers is very difficult and that arrangements must be made to receive correct deliveries in regard to quality, viz., germination and purity, corresponding with the sale samples and the bulk samples.

CONRAD APPEL.
Darmstadt, Germany, February 25, 1909.

Proposed New York Seed Law.

We give below the text of a proposed law which was introduced February 22, in the New York legislature. This bill originated with the commissioner of agriculture and was introduced by a Mr. Callan of Columbia county. Some seedsmen have called our attention to various parts of the bill which they describe as decidedly objectionable and we would be glad to have the comments of other readers after careful perusal:

An Act to amend the agricultural law entitled "An Act in Relation to Agriculture Constituting Chapter 1 of the Consolidated Laws" in relation to inspection and sale of seeds.

The people of the state of New York, represented in senate and assembly, do enact as follows:

1. Chapter nine of the laws of 1909 entitled "An Act in Relation to Agriculture, Constituting Chapter One of the Consolidated Laws," is hereby amended by adding at the end thereof a new article to be known as article 16 to read as follows:

ARTICLE XVI.

Inspection and Sale of Seeds.

360. No person shall sell, offer, expose or have in his possession for sale for the purposes of seeding, any seeds of cereals, grasses, clovers or forage plants in quantities exceeding one pound unless every receptacle, package, sack or bag containing such seeds, or a label securely attached thereto, is marked in a plain indelible manner as follows:

(a) With the full name and address of the seller.

(b) With the name of the kind or kinds of seeds.

(c) The percent of purity of the sample.

(d) With the common name or names of the weeds, the seeds of which, if any, are present in the seed sold, offered, exposed or held in possession for sale.

For the purpose of this act such seed so offered or exposed for sale shall be deemed to be free from prohibited seeds if they do not exist in greater porportion than five of any kind to 1,000 of the seed being sold, offered, exposed or held in possession for sale.

The provisions of this act shall not apply to any person selling seeds direct to merchants to be cleaned or graded before being offered for sale for the purposes of seeding, nor to seed that is held in storage for the purpose of being recleaned and which has not been offered, exposed or held in possession for sale for the purpose of seeding, nor to seed marked "Not absolutely clean" and held or sold for export only.

2. This act shall take effect immediately.

South Sea Phosphate.

DISCOVERY OF NEW DEPOSITS.

Consul Julius D. Dreher, of Tahiti, furnishes the following information concerning the discovery of phosphate on an uninhabited British possession in the South seas: "Henderson Island is about

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

THE CREGO ASTER
"The Best in the Market."
S. F. Schelley, Brantford, Ont., writes: "I had some of your Pink Asters seven inches in diameter. At the Horticultural Exhibition I easily took first prize with a mixed bunch of 18 blooms."
Trade packet, $1.00; half ounce, $4.50; ounce, $8.00.
G. S. CREGO, 693 E. 10th St., Portland, Ore.

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1 50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

O. V. ZANGEN, Hoboken, N. J.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations.
Varela's Improved Onion Seeds will give best satisfaction to growers. Insist on getting them It will pay you.
Federico C. Varela, Teneriffe, Canary Islands

150 miles northeast of Pitcairn island, and 300 miles east of Gambier islands, which are in the Tahiti consular district. According to one of the two men who discovered the phosphate, Henderson is an elevated island, several times as large as Makatea, which has an area of some 10 square miles. The preliminary investigations made on various parts of the island show that there are large deposits of phosphate thereon. It outcrops on the land and was found at several places to extend to a depth of six feet, which was as low as the examination was made. Specimens analyzed show that some of the phosphate at least is of a high grade. Of the other two islands, Ducie is elevated and it is quite probable that deposits of phosphate will be discovered on it. My informant has sent his report and many specimens of the phosphate to London. He informs me that a thorough survey and examination of Henderson will soon be made."

Imports.

During the week ending March 13 imports were received at New York as follows:

McHutchison & Co., 52 cases plants, three cases gooseberry trees.

H. F. Darrow, 26 pkgs. 20 cases plants.

C. C. Abel & Co., 27 pkgs. plants.

A. Rolker & Sons, 11 cases plants.

Stumpp & Walter Co., one case trees.

S. C. Moon, three crates trees.

Hy. Nungesser & Co., 300 pkgs. seed.

Peter Henderson & Co., 20 pkgs. seed.

J. M. Thorburn & Co., five pkgs. two bags seed.

W. H. Stenger & Co., eight pkgs. lily of the valley pips.

To others 75 pkgs., 49 cases plants. 400 pkgs., 250 bags clover seed, 690 bags seed.

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Landreths' Seeds
BLOOMSDALE FARMS
BRISTOL, :: PENNA.
If you want Seeds for filling in, name varieties and quantities.

Seed Beans
F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. **ALPENA, MICH.**

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

BELLINGHAM, WASH.—Henry Klopfer, late of the Plant Introduction Garden at Chico, Calif., has been transferred to the new bulb propagating gardens here as assistant to Mr. Juenneman.

Skidelsky & Irwin Co.
SEEDS, BULBS AND PLANTS.
144 N. 7th St., PHILADELPHIA
KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

The Everett B Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors......................⅛-oz. 60c; oz. $4.00
Pure white....................⅛-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

The Last Crop of Lettuce.

To lettuce growers the last crop is often by no means the least. Many times it is the most profitable one of the forcing season. Generally it grows the quickest of any and finds a good market. However, it is in the spring months when we find the poorest quality, long, soft and lifeless, covered, as a rule, with green fly. There is no need of this if we watch a few main points, such as plenty of water at the roots. When the spring sun is up and the temperature is high, with a good wind, water is evaporated surprisingly fast, and, unless the grower watches closely, dry roots result. We cannot prevent the day temperature going ahead of our mark, at times, but we can make up at night, and as long as the nights are cool, good lettuce can be grown.

Many operators shut down the ventilators at quitting time, no matter what the weather. The proper course is to give lettuce all the air possible, all night, as long as the outside temperature stays up to 50°. This night ventilation braces up the crop and minimizes the effects of hot days. Another factor is plant food. After a season's cropping the soil may be low on available nitrogen in which case nitrate of soda is a great help. We have in operation a course of experiments of spraying on nitrate of soda, and, so far, results have been excellent. A small amount of nitrate of soda on the foliage, will absorb moisture from the air, and thus protect the plant from dry air and hot sun, and when washed down to the roots the distribution is uniform, and the dose very mild. We simply use a knapsack sprayer, and apply at the rate of ½ to one ounce per gallon of water, every few days. It certainly helps to produce that crispness so much desired, while the method is both cheap and effective. MARKETMAN.

To Grow Sweet Potato Plants.

Prepare a hotbed by using fresh manure from the horse barns. Add about one-third to one-half straw or bedding material and mix thoroughly. This mixture should be packed in the bed to a depth of 12 to 18 inches. A convenient width for hotbeds is six feet; they can then be made as long as desired. The mixture should then be thoroughly moistened but not made wet; too much water will retard the heating process caused by the fermentation of the manure. Let this mixture stand in the bed for three or four days, by which time it will have reached its highest degree of heat. At this time the bed should be carefully examined to see that there are no dry spots. The mixture should be kept well moistened. The frames that are to support the covering of the bed should then be placed on top of the bed of manure with the slope of the top to the south. Two or three inches of soil should be spread over the mixture and the sweet potatoes carefully placed on the surface and covered with an additional layer of soil to a depth of two or three inches. Sandy soil is best for this purpose. Keep this soil moist throughout the entire period of plant growth.

The potatoes should be carefully distributed over the bed and no two potatoes should lie against each other, but they need not be more than one-half inch apart. The potatoes that are more than 2½ or 3 inches in diameter should be split lengthwise, and the cut surface placed down in the bed; smaller potatoes may be placed in the bed whole. The potatoes should be placed in the bed about six weeks before the first plants are to be transplanted to the open field. If care is exercised in pulling the plants, a second crop of plants will be produced in about two weeks, and a third and much lighter crop will be produced about two weeks later, during which time a good bed will produce from 100 to 150 plants per square foot.

The plants should not be placed in the open field until the soil is quite warm and all danger of frost is passed. In the central part of Oklahoma transplanting can be done in May, while in the southern part of the state it can frequently be done with safety during the latter part of April. In the northern part of the state transplanting should be done after the middle of May.—Oklahoma Press Bulletin.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points March 13 were as follows: New York, cucumbers, 75 cents to $2.25 per dozen; lettuce, $1.25 to $1.50 per strap; mushrooms, 20 cents to 50 cents per pound; mint, 40 cents to 50 cents per dozen bunches; radishes, $2 to $3.50 per 100 bunches; rhubarb, 30 cents to 60 cents per dozen bunches; tomatoes, 15 cents to 35 cents per pound. Cincinnati, cucumbers, $2 to $2.25 per dozen; mushrooms, 40 to 45 cents per pound. Boston, cucumbers, $12 to $15 per box. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $3.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 15 to 25 cents per pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents; French endives, 25 to 40 cents per pound.

WASHINGTON, D. C.—In 1905 Capt. John Donnell Smith of Baltimore, presented to the Smithsonian Institute his herbarium and botanical library, perhaps the most valuable private botanical collection in this country. The herbarium consists of more than 100,000 mounted plants and the library of 1,600 superbly bound volumes. This gift was made with the understanding that the books and such part of the collection as was needed by Capt. Smith should remain in Baltimore. At that time, however, some 30,000 specimens were sent to the Smithsonian. He has now sent his entire fern collection, consisting of more than 7,000 sheets. This collection will be of great aid in certain research work now being carried on.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

For Transplanting. 1000

Cabbage, Wakefield and Succession.. .....$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100: 3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain .....40c per 100 3 00
Chinese Giant and Cayenne...50c per 100
Tomato, Earliana, Chalk's Jewell, and Early June Pink..... 30c per 100 2 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

Muskmelon Seed at $1.00 per lb.

EMERALD GREEN,

(Credit to any Seedsman to handle this strain.)
Of a fine quality and the desirable size about 30 to the bushel.
Cole's Early Watermelon, at 30c. per lb.

FREEMAN HURFF, Swedsboro, New Jersey.

THE STRAWBERRY BLIGHT

Its Cause and Cure.

How to more than double the yield of crop without increasing the cost of production. A great discovery. Price of book $2.00; worth $25.00.

WM. C. TRIMBLE, Princeton, Ill.

COLORADO CITY, COLO.—E. R. Ripley, of the Grand View Greenhouses is installing a new boiler and 40-foot smoke stack.

NEW YORK.—Emil Lange recently recovered a verdict of $3,000 for injuries suffered when coming from Staten Island on April 6, 1907, in a municipal ferryboat. He stepped into a coal hole the cover of which had been left off. His leg was broken and he was laid up for weeks.

Seasonable Flower Seeds

10 per cent special CASH DISCOUNT. On orders over $2 for Flower Seeds if cash is enclosed, **10 per cent.** The discount does not apply to Asparagus Seed. Cash discount on this is 2 per cent.

Single Spray Asparagus Plumosus Nanus.

ASPARAGUS PLUMOSUS NANUS, northern greenhouse grown seed. Per 100 seeds, 50c; 250 seeds, $1.00; 1,000 seeds, $3.50; 5,000 seeds, $16.25.

ASPARAGUS SPRENGERI, 100 seeds, 15c; 250 seeds, 25c; 1,000 seeds, 75c; 5,000 seeds, $3.25.

ALYSSUM VAUGHAN'S LITTLE GEM, best dwarf strain in the world. Tr. Pkt., 10c; oz., 30c; ¼ lb., 75c.

ASTER, QUEEN OF THE MARKET, white, pink, crimson, scarlet, light blue, dark blue, each, trade pkt., 10c; ¼ oz., 20c; oz., 50c.

ASTER, CARLSON (Early Flowering Branching), white, rose-pink, lavender, Marquis-pink, violet-blue, daybreak pink and mixed, each, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

ASTER, BRANCHING, white, rose-pink, lavender, purple, dark red and daybreak pink, each, trade pkt., 10c; ¼ oz., 30c; oz., $1.00.

ASTER, VAUGHAN'S UPRIGHT BRANCHING WHITE, re-selected stock, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

CANDYTUFT, GIANT HYACINTH-FLOWERED (Improved Empress), trade pkt., 5c; oz., 20c; ¼ lb., 50c.

CASTOR BEAN, Zanzibar Mixed, trade pkt., 5c; oz., 10c; ¼ lb., 20c.
Zanzibar Enormis, trade pkt., 5c; oz., 15c.
Panormitanus, new, trade pkt., 10c; oz., 25c.

CENTAUREA CYANUS, double blue Cornflower, trade pkt., 10c; ½ oz., 30c; oz., 60c.
Double white Cornflower, trade pkt., 10c; ½ oz., 40c; oz., 75c.

COBEA SCANDENS, purple, trade pkt., 10c; oz., 30c; ¼ lb., 90c.

COSMOS, EARLY FLOWERING WHITE OR PINK, northern grown, each, trade pkt., 10c; oz., 60c.

DIANTHUS HEDD, SNOW QUEEN, best double white, trade pkt., 10c; ½ oz., 30c.

MOON VINE, white seeded, trade pkt., 10c; oz., 30c.

MIGNONETTE MACHET, selected stock, trade pkt., 10c; ½ oz., 25c; oz., 50c.

MIGNONETTE GOLIATH, extra fine, trade pkt., 15c; ¼ oz., 25c; oz., 80c.

NASTURTIUM, VAUGHAN'S SPECIAL MIXTURES, tall or dwarf, each, oz., 10c; ¼ lb., 20c; lb., 60c.

PHLOX DRUMMONDI, large-flowering, white, pink, scarlet, crimson, yellow, each, trade pkt., 10c; ¼ oz., 20c; oz., 60c. Mixed, trade pkt., 10c; ¼ oz., 15c; oz., 50c.

PETUNIA, LARGE FLOWERING SINGLE, "Vaughan's Best" mixture, 1,000 seeds, 50c.

PRIMULA OBCONICA GRANDIFLORA, "Rousdorf strain," white, rosea and mixed, each, trade pkt., 50c; 1/32 oz., $1.00.

STOCKS, GIANT PERFECTION (cut and come again), white, sky-blue, pink, scarlet, dark blue, each, trade pkt., 25c; ⅛ oz., 40c; oz., $2.50.

STOCKS, PRINCE BISMARCK, new, white, fine for cut, trade pkt., 25c.

STOCKS, WHITE COLUMN, extra, trade pkt., 25c; ⅛ oz., 60c.

VERBENA, "VAUGHAN'S BEST" MIXTURE, trade pkt., 25c; ¼ oz., 50c; oz., $2.00.

Sweet Peas

If to go by mail add 8c per pound for postage.

WHITE—White Spencer, regular stock, oz., 15c; ¼ lb., 40c; lb., $1.50.
Nora Unwin, oz., 10c; ¼ lb., 25c; lb., 80c.
Dorothy Eckford, ¼ lb., 10c; lb., 30c; 5 lbs., $1.25.
Dorothy Eckford, re-selected, oz., 50c.

LAVENDER—Lady Grisel Hamilton, ¼ lb., 10c; lb., 25c; 5 lbs., $1.10.
Mrs. Walter Wright, ¼ lb., 15c; lb., 45c.

LIGHT PINK—Bridesmaid, ¼ lb., 15c; lb., 40c.
Gladys Unwin, oz., 10c; ¼ lb., 20c; lb., 50c.
Countess Spencer, var., oz., 15c; ¼ lb., 40c; lb., $1.25.

ORANGE PINK—Button's Pink, ¼ lb., 15c; lb., 50c.
Helen Lewis, ¼ lb., 20c; lb., 60c.
Evelyn Byatt, ¼ lb., 15c; lb., 40c.

RED—King Edward VII, ¼ lb., 15c; lb., 40c.
Queen Alexandra, ¼ lb., 15c; lb., 50c.

YELLOW—Primrose Spencer, oz., 15c; ¼ lb., 35c; lb., $1.25.
Hon. Mrs. Kenyon, ¼ lb., 10c; lb., 30c.

PINK AND WHITE—Florence Frazer, ¼ lb., 15c; lb., 40c.
Blanche Ferry, ¼ lb., 10c; lb., 20c.

For other varieties, not mentioned, see our **"Book for Florists,"** sent free to commercial florists.

New York. **Vaughan's Seed Store,** **Chicago.**

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Wanted To contract a few thousand 3-in. pot grown Dahlia roots this summer, party having experience, please quote. Address

Key X74, care American Florist.

Wanted **Ipomoea Palmata or Mexican Morning Glory.** Large size roots. State quantity you have to offer and price.

VAUGHAN'S SEED STORE,
Chicago. **New York.**

POCATELLO, IDAHO.—A. Staley will build an 18x60-foot extension to his greenhouses here.

INDEPENDENCE, IA.—J. P. Murphy, of Cedar Rapids, who, last fall, purchased five greenhouses here, has arrived to take charge of his newly acquired property. He will at once enlarge the plant by building five more greenhouses, and will do a wholesale as well as retail business. Mrs. Murphy will remain at Cedar Rapids and look after their greenhouse business here until July 1, when their lease on the plant expires. At that time, Miss Jennie Smuck of Fort Dodge who owns the greenhouses will take charge of them personally.

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List:—

The Conard & Jones Co.

WEST GROVE, PA.

S. D. Woodruff & Sons

SEED GROWERS AND DEALERS.
Garden, Field and Flower Seeds.

82 and 84 Dey St., NEW YORK.

Seed Farms: Orange, Conn. **OUR SPECIALTIES: Onion, Beet,** Tomato, Cabbage, Cucumber, Sweet Corn, **Seed Potatoes** and **Onion Sets.**
Catalogue free. Correspondence solicited.

VAN ZANTEN BROTHERS

Royal Netherlands Bulb Nurseries and Export Trade.

HILLEGOM, HOLLAND.

Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA,** care of **Messrs. Maltus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

There are Dahlias and Dahlias, as everyone knows, but Peacock leads them all with his Peerless

Jack Rose

Strong tubers, $1.00 each: Clumps, $2.50 each.
Send for trade list of New Dahlias.

PEACOCK DAHLIA FARMS,
Williamstown, Junction N. J.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-Presdent; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

AN important resolution upon the tariff, passed at a joint meeting of committees representing the various trade organizations, is noted on page 378.

MILWAUKEE, WIS.—A municipal nursery will be started here by the park board in Sherman park. About 150,000 plants will be purchased with the appropriation of $2,000 made for the purpose.

UNDER a new interpretation of the law of 1905, the Department of Agriculture has notified the railroads that they will not be allowed to move importations of nursery stock from Europe, and elsewhere, without a health certificate, endorsed by the American consul at the port of shipment. A fine for any violation of this ruling is $5,000.

THE warning now being sent out to Wisconsin nurserymen by Prof. E. P. Sandsten as state nursery inspector, reads: "I request that you notify me of any shipment from foreign countries, especially France and Holland, so that I may take steps to inspect these before they are disseminated or planted. Notify me on receipt of such goods, and I will take the first train to your place to examine them. Do not open the box or package until I arrive. It is vitally important that this request be complied with." The brown-tail moth is the insect most feared.

THE executive committee of the American Association of Park Superintendents met at Buffalo, N. Y., March 17 at the Genessee hotel. The following members were present: President Duncan of Boston, Mass.; Secretary Mulford of Harrisburg, Pa.; — Williams of Erie, Pa.; E. H. Perry of Niagara Falls; — Donaldson and John F. Cowell of Buffalo, N. Y. The usual routine work of the association was gone through, and the arrangements for the annual meeting at Seattle, Wash., Aug. 9, 10, 11 and 12. Plans are being made for an excursion of the eastern members via Yellowstone Park. The programme as arranged provides some good solid pieces de resistance for the business meetings and a good opportunity to examine the park improvements of the northwest.

Planting Outdoor Roses.

In the milder localities and favored spots in colder districts fall planting (November) of roses proves successful and is much practiced but there are many places where the plants have to be held over winter in the cellar and planted early in the year, and the best time to plant is just as soon as the frost is out of the soil and it can be got into a good friable condition. Nothing is gained by attempting to plant or to prepare soil when it is wet and "greasy" owing to the frost being only partly out of it. This makes it work badly for months after and is a hindrance, not a help. Very often the plants are cut back sufficiently when received and require no further pruning, but if they have long, straggling shoots it is both an aid to the roots and an improvement to the appearance of the beds or borders after planting to cut them back a little.

Pruning is a relative term and the style that is applicable to one variety is not good for all. Take the case of the hybrid perpetuals. We would not prune such a strong grower as Paul Neron, for instance, as close back as we would General Jacquimenot or Alfred Colomb, but would leave a foot or so of growth on the former and cut the weaker growers back to say half that length. Then some of the ramblers may have good, well ripened growths on them that may be expected to keep plump and flower and to remove this growth would be to cut away flowers that may be wanted later. Not that it is policy always to allow newly planted stock to flower freely the first year. The plants have to make a good rooting system and establish themselves in their new quarters and it is folly to expect them to do this in the short time before hot weather, as well as carry a full crop of flowers. The future of the plant is of more importance than a few flowers the first season, while the late summer flowering upon the new growths of some of these varieties will more than compensate for the loss of a few early ones.

Should the plants be at all dry at the root let them be thoroughly soaked before planting to plump up the eyes and roots. Any of the latter that are bruised or broken must be cut back to solid portions with a keen knife at the same time the heads are pruned, just before planting. As a rule the plants can be set at the same depth they were growing in the nursery, the soil line being easily seen. But in any case it is necessary to bury the point of union between stock and scion, the place where the bud was inserted or the graft made being easily seen. Whether the rose roots that spring from above the joint are useful to the plant or not the exposure to the air of the point of union is a frequent cause of canker and kindred evils. It also, according to our experience, tends to a more equal swelling of the rose growth and the manetti or whatever stock the plants are worked on if the point of union is well covered.

An experienced rose grower recently expressed his surprise that the hybrid tea roses are not more grown outdoors instead of so many of the hybrid perpetuals. A cynic once said these latter roses were so called because they were not perpetual flowering. At any rate the hybrid teas are far better for producing a display over a long season, though the hybrid perpetuals are doubtless very showy at their best. Among the hybrid teas that are equally hardy as those with which we compare them are: Caroline Testout, a beautiful bright satiny rose of fine form and exquisite fragrance: Clothilde Soupert (hybrid polyantha) and its climbing form, white with rosy center, much larger than the majority of its class and of excellent form; Gruss an Teplitz, a very bright crimson and one of the finest bedding roses in existence; La France, an old but charming rose and distinct from all others in its bright, rosy pink color; Liberty, well known as a bright red forcing rose, but not nearly enough grown outside and possibly the brightest red variety in existence; Richmond, very similar to the last named but even a better grower; Mrs. W. J. Grant, a lovely pink, delicately perfumed and a superb rose all around; Reine Marie Henriette, a deep red climber, and Trier, a

POLYANTHA ROSE CLIMBING CLOTHILDE SOUPERT.

fine white rose of German origin. Two new varieties that are bound to come to the front as good, showy, outdoor roses are President Taft, a German rose—a cross between Gruss an Teplitz and Cramosie Brilliante—and Gruss an Zubern, a fine white. These notes on the varieties must, however, only be taken as suggestive; there are many others of great merit that may be added where a larger collection is needed.

The operation of planting dormant roses is too simple to need a lengthy description. As noted above the soil should be in a good condition and another point worth noting is to spread the roots out well and see that some fine soil is placed around them and well firmed before finishing the top soil, which should be loose. After raking the surface smooth, leaving the soil porous so that the rain and air has access to the roots, a light covering of litter is an advantage. Protection, as usually understood, is not needed. The roses as they come from the cellar are somewhat tender and the drying effect of cold winds after planting is felt both by the roots and head. Again in a dry spring the loose surface and the thin mulch of litter helps to conserve the moisture and keeps the sun from drying and cracking the surface and is well worth while. A bed or block of one variety needs only one label, of course, but where a collection is grown in mixture, careful labeling at planting time is essential as much of the interest is lost if the correct names of the varieties are not known.

COMMERCIAL.

Examination for City Forester.

Chicago, March 12, 1909.—The civil service commission of Chicago will hold an entrance examination for city forester at 117 Market street, Official service, Division miscellaneous, on March 29, 1909, at 9 a. m. Applicants for this examination must have a practical as well as a theoretical knowledge of the science of sylviculture. The scope of the examination will be: Technical knowledge, composition and experience,—with weight for each subject as fixed by minutes of March 12. Local residence will be waived under Section 3 of Rule III. Those desiring to take the above examination must file application with the civil service commission, 405 City hall, before 12 o'clock noon of Saturday, March 27, 1909.

By order of the Commission.

PERCY B. COFFIN, Sec'y.

Pruning Altheas.

ED. AMERICAN FLORIST:—

Please tell me through the columns of the AMERICAN FLORIST how to prune althæas. CONN.

By althæas I presume "Conn." means the shrubby hardy species known botanically as Hibiscus Syriacus and often called Rose of Sharon. These shrubs flower from the new wood of the season's growth and hence they may be pruned in spring to almost any extent. When formal effects are desired they are very severely cut back before they start in spring and the result is a perfect ball or pyramid of bloom in early autumn. Ordinarily they need little pruning except to remove imperfectly ripened tips of branches and cut out superflous or interfering shoots. When a tree form is desired, the young plants in the nursery rows may be cut back to within an inch or two of the ground and only one shoot be allowed to grow to form the future stem. This plant is often used for hedges and sheared into shape annually. The tender species H. Rosa-Sinensis, grown as a pot plant in conservatories or for bedding out in summer, is better if severely cut back while dormant or before the plants start into growth for the summer.

JOHN F. COWELL.

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft	1.75
2½ to 3 ft. high	2.00
	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds	$ 75.00
12 to 14 buds, 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00

	Per 100
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better	$100.00 per 1000 $11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft. high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

THE STORRS & HARRISON CO., Painesville, O.

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige Mme. Plantier, Alfred Colomb, Perle des Blanches, Climbing Clothilde Soupert, Archduchess Elizabeth of Austria Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.

Tausendschon the great new climber $20.00 per 100
Crimson Baby Rambler 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

Notice to the Trade

We beg to acquaint the trade that our

MR. RENS

will arrive in New York about March 20th next to solicit business for our renowned nursery goods. His address will be

Care Maltus & Ware, 14 Stone St., New York.

H. den Ouden & Son,
The Old Farm Nurseries,
Boskoop, Holland.

Violet Blue Rose

A Remarkable Novelty.

The New Rambler (Violet Blue), hailed by the German rose growers as the forerunner of a genuinely cornflower blue rose, is a seedling of Crimson Rambler, very vigorous and hardy. For descriptions of this great novelty, as well as many others, send for Booklet.

ELLWANGER & BARRY
Mount Hope Nurseries
Box Q, Rochester, N. Y.

UP-TO-DATE
Azaleas and Rhododendrons
WITH
JEAN BRACKE,
LOCHRISTY, near Ghent, **BELGIUM.**
Catalogues free on application.

American Everblooming Hydrangea.

Strong field-grown plants, 15 to 20 inches, $2.50 per doz. $15.20 per 100.
Berberis Thunbergii, 1 year and transplanted, Amoor River Privet, Japanese Privet 1½ to 2½-ft. California Privet 1 to 2½-ft.
Lists Free
THE E. Y. TEAS CO., Centerville, Ind

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

BOBBINK & ATKINS,

Rutherford, N. J.

Bay Trees, Palms, Buxus, Azalea Indica, Rhododendrons, Evergreens, Herbaceous Plants, Roses, Trained Fruit Trees, Greenhouse Grape Vines. Ask for catalogue.

SPECIAL OFFER

Tree and Shrub seeds, especially Tulips, Poplars, Calycanthus, Red Bud, Sweet Gum, Witch Hazel, etc. at special prices to close.

J. H. H. BOYD, McMinnville, Tenn.

6000 Swiss Stone Pine Seedlings, 3 and 4 yrs.,

2000 Swiss Stone Pine, 6 to 8-in transplanted and larger sizes. 1000 Mugho Pine, 6-in. high 6-in. broad, twice transplanted, round and compact and larger sizes. Twice transplanted Engleman Spruce 9 to 12 in twice transplanted heavy and larger sizes. All grown here.

Send for Wholesale Catalogue.

JACKSON'S NURSERIES, Portland, Me.

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants. (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

For Best Results Advertisers should mail new advertisements and changes so as to reach us on Mondays.

AUCTION SALES
TUESDAY & FRIDAY
AT NOON.

AUCTION SALES

They are moving along nicely—Thank you.

We are moving large blocks of nursery stock, consisting of Roses, Rhododendrons, Hydrangeas, Conifers, Herbaceous and Bulbous Stock. It will pay you to attend these sales.

WM. ELLIOTT & SONS, 45 Vesey Street, NEW YORK.

LEGAL NOTES.

Claim for Discount.

At the Redhill county court February 3, William Wells & Co., chrysanthemum growers, Merstham, sued William Sydenham, of Tamworth, nurseryman, for £4 3s. 4d. for chrysanthemums supplied. Defendant counterclaimed for £7 10s. agreed trade discount in respect of such chrysanthemums, and £3 6s. 8d., the difference between the actual amount due for plaintiff's account and amount paid to plaintiffs generally on trading account.

Mr. Wells said he had for some years supplied the defendant with ordinary chrysanthemums, and allowed him the usual trade discount, but had refused to supply him with the novelties, as on a previous occasion defendant ordered 12 Goacher's Crimson, 1902, but before he was supplied it was found that he had put them in his catalogue at 6d. (12 cents) less than he himself was offering them. When it was found out that he had been cutting prices the plaintiffs refused to supply him. In each succeeding year defendant had made application for the novelties, but he refused to supply them until he agreed to ask the same prices as the plaintiffs in the second year. On November 15, 1906, defendant ordered certain chrysanthemums from the catalogue, and plaintiff told him he would be supplied at a discount. On December 4 the plaintiffs issued a fresh circular, making a considerable reduction in the price of their early singles, and on December 8, 1906, defendant wrote on the strength of this circular, ordering 10 of each of their early singles. In the circular, in notifying the reduction the plaintiffs stated that no trade reduction would be allowed. The goods were supplied and the account delivered, to which the defendant took no exception, but on October 11, 1907, he sent £20 on account, and did not in any way claim a discount. He first raised a question about discount on December 18, 1907. Mr. Hooper contended that the defendant had always been and was entitled to the usual discount. His honor gave judgment for the plaintiffs on the claim and counterclaim. —Gardeners' Chronicle.

Trade Name Dispute.

The action brought by Alex. Dickson & Sons, Ltd., Royal Irish Nurseries, Newtonards, County Down, seedsmen, nurserymen and florists, claiming an injunction to restrain the defendants, Alex. Dickson, Jos. Dickson and Alex. Dickson, Jr., from selling any roses or seeds not grown or propagated by the plaintiffs as "Dickson's" or from carrying on the business of nurserymen or seedsmen under the name of "Alex. Dickson & Sons" or "Alexander Dickson & Sons" has been finaly settled by the court of appeal.

The lord chancellor, in giving judgment, said that the plaintiffs for over half a century traded under the name of Alex. Dickson & Sons. They carried on business as horticulturists, principally in Newtonards, but also at Ledbury, in Herefordshire, Eng., and they had a seed business in Royal avenue, Belfast. On December 5, 1900, they were incorporated under the name of Alex. Dickson & Sons, Ltd. In 1901, they opened a shop in Dawson street, Dublin, and in 1906 they bought a tract of 17 acres at Blackrock and established a nursery there. They had a valuable trade name. The defendant came to Dublin about 1875, and he opened a shop in Capel street some 12 years ago under the name of the Ashbourne Agricultural Co., and he also put the name "Alex. Dickson" on the sign board. He carried on the seed business but did not raise or grow roses.

After the plaintiffs opened the shop in Dawson street it occurred to the defendant that it would be desirable to go into the nursery business in order to compete with his new Dublin rivals, and, accordingly, in 1905, he bought for £1,000, the site of a nursery at Woodlawn, Dundrum, which he subsequently called the "Home of the Rose." All this was perfectly legitimate; but in February, 1907, there was a tender for seeds advertised by the Department of Agriculture, and plaintiffs and defendants both competed for it. The plaintiffs got the contract, and immediately the defendant advertised himself as Alex. Dickson & Sons, Woodlawn Nurseries, Dundrum. Thus the defendant literally adopted the old and valued trade name of the plaintiffs expressly for the same business which had made the name famous, and the question which the court had to consider was whether this act was lawful. The master of the rolls had granted an injunction against its use. Upon the whole

CHRYSANTHEMUMS

Now is the time to procure stock for **EXHIBITION BLOOMS.**
Here is an opportunity for those who contemplate competing at the Shows or intend making a display on their own account.

SPECIAL OFFER.

To make room **we have cut the price in half** of the following 1909 Novelties:

Wells-Pocket— G. W. Pook, Rose Pockett, Mrs. Chas. H. Totty, Frank Payne, Merstham Blush, Leslie Morrison.

Also the following meritorious Novelties:
Bessie Evans, Miss Faith Moore, Mrs. Jos. Hygate, R. C. Pulling, Diabola, Mme. Helene Prudhomme and Souv. de Raymonde.

Any of the foregoing, 25c each; 5 of a kind, at 20c each; and 25 of a kind, at 15c each. The stock is exceptionally fine and ready to shift.

We Are Headquarters for the Best Commercial Novelties
and can now deliver in quantities such sterling sorts as Gloria, Pres. Taft and Mrs. W. E. Kelley.

Of the Older Sorts, Best for Exhibition, we have the following, in the best condition, ready to shift, and are making the following low offer: 10c each; 5 plants of a kind, at 5c each; 25 or more of a kind, at 4c each:

Anna Hamilton,	F. S. Vallis,	Mrs. F. F. Thompson,	Nellie Pockett,
Bessie Godfrey,	Grace Witney,		O. H. Broomhead,
Brighthurst,	Joseph Stoney,	Mrs. Walter Jinks,	Reginald Vallis,
Cheltoni,	Kitty Lawrence,	Mrs. Wm. Knox,	Solange,
C. J. Salter,	Lady Hopetoun,	Mrs. Geo. Mileham,	T. Carrington,
Dicky Vince,	Miss Clay Frick,	Mrs. J. C. Neill,	Wm. Duckham,
Dubuisson-Foubert,	May Seddon,	Mrs. R. H. Pierson,	W. Meredith,
	Mme. L. Roussel,	M. Paul Randet.	W. Wells.
Ernest Mileham,	Mrs. J. E. Dunne,	Naceur-Bey,	

Our stock of Commercial Sorts, including Pompons and Singles, is complete.

We also have ASTER SEED of superior quality and best varieties.

ELMER D. SMITH & CO., Adrian, Mich.

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo. S. Kalb, fine early; Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset, Jeannie Nonin, October Frost, Early Snow, Angele Laurent.
Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean, Pink Ivory, Rosette.
Yellow—Major Bonnaffon, Cremo, Robt. Halliday, "Baby," small yellow of the button type.
50,000 Rooted cuttings ready. Send for prices.

WM. SWAYNE, Box 226, KENNNETT SQUARE, PA.

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		5.10	45.00
ENCHANTRESS		3.00	25.00
MRS. THOMAS W. LAWSON		2.00	15.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		5.00	45.00
RED. Per 500.			
O. P. BASSETT	$35.00	1.50	8.00	60.00
BEACON			4.00	35.00
ANDREW CARNEGIE			6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		5.00	45.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants, 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill. **Book for Florists, Spring Edition, Now Ready.**

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings. Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

Apple Blossom **Wanoka**

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100: $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,
BARNEVELD, NEW YORK.

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100: $50.00 per 1000. Prices on larger lots on application.

R. Witterstaetter, Station F., **Cincinnati, O.**

PETER FISHER

Ellis, Mass.

Send for Price List of Carnations.

case, he was of opinion that the judgment of the master of rolls was right, and that the appeal must be dismissed, the costs to be paid by the appellants.

Lord Justice FitzGibbon and Lord Justice Holmes concurred, accordingly the appeal was dismissed with costs, but the form of the injunction was altered restraining the defendant from carrying on the business of nurserymen or seedsmen either in the name of Alexander Dickson & Sons or Alex. Dickson & Sons, or in any name or any manner so as to mislead or deceive the public.—Gardeners' Chronicle.

REDLANDS, CALIF.—Sidney Hockridge will at once begin the erection of three large greenhouses for flowers and vegetables. He will spend about $10,000 on his plant.

Carnation Cuttings and Plants

READY MARCH DELIVERY
Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ... $10.00 per 100, from sand
Mrs. J. C. Vaughan, from 2½-in. pots, ... $12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, **Joliet, Ill.**

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings ..... $3 50 per 100 2½-inch pots ..... $5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100: $12 00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., **Toledo, Ohio**

ROOTED CARNATION CUTTINGS

For Immediate Delivery.	100	1000
Lucille, (white, overlaid with pink)	$12 00	$100 00
Mrs. J. C. Vaughan, white	12 00	100 00
Mrs. Chas. Knopf,	12 00	100 00
O. P. Bassett,	8 00	60 00
White Perfection,	3 00	25 00
Beacon	3 00	25 00
Victory	3 00	20 00
Winsor,	3 00	25 00
Rose Pink Enchantress,	2 50	20 00
Enchantress	1 75	15 00
Lawson,	1 50	12 00
Lady Bountiful,	1 75	15 00
White Enchantress, that is pure white	3 00	25 00

A. F. LONGREN, **Des Plaines, Ill.**

Headquarters for all desirable varieties of **Carnations, Chrysanthemums** and **Roses.** Write for full list.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan $12.00 per 100: $100.00 per 1000,

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,
Madison, New Jersey.

Send Your Advertisements Early.

The Hyde Park Rose Co.

Wishes to inform the trade that they will be able to supply

Only 12,000 More Plants of Their New Taft Rose

and wishes all those desiring stock of this rose to place their orders as soon as possible. Good strong plants from 2-inch pots at **$15.00 per 100 straight; no reduction in lots of 1000.** Address all mail to

THE HYDE PARK ROSE CO., Wasson Ave. and McCormick Road, **Hyde Park, Cincinnati, Ohio**

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS.**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS.**
IN BEST VARIETIES.
Prices low. Send for list.
WOOD BROTHERS, Fishkill, N. Y.

ROSE PLANTS

On own roots. Send for list.
C. M. NIUFFER, Springfield, Ohio

European Horticulture.

FROM THE FRENCH TRADE PAPERS.

BOUGAINVILLEAS IN THE OPEN AIR.—According to A. Nonin, the bougainvillea lends itself easily to garden decoration. Planted outdoors in a sunny location about the end of May, it thrives and produces its beautiful and showy bracts for several months. A comparatively new variety, B. Cypheri, is remarkable for its bright coloring and the large size of its pseudo-flowers. After blooming in the open air in summer, the plants may be rested until April, when they will bloom freely in the greenhouse.

ROSE MARQUISE DE SINETY.—This hybrid tea, introduced by M. Pernet-Ducher in 1907, received the gold medal offered by the city of Paris in that year. The plant is vigorous and bushy, foliage bronzy green, very free-blooming. The buds are well shaped, flowers large, cup-shaped, very double. Their color is at first an ochre yellow shaded brownish yellow, passing to nearly a vermilion. It is excellent for outdoor planting, and a great future is promised for it.

A NEW double yellow tree peony has been obtained in France, the single existing plant having bloomed for the first time in May, 1908. It forms a little bush, 20 inches high with strong wood, foliage glaucous below, deep green above. The buds were carmine tinted, on long slender stems; the flowers were very heavy, 6-7 inches in diameter, and had to be supported on account of their great weight. The color is a deep mixture of scarlet and yellow.

THE congress of the Federation of Horticultural Societies of France last July considered the following topics: "The Betterment of Transportation;" "The Certificate of Origin;" "The Interdiction of the San Jose Scale;" 'Please Omit Flowers;" "Dealers' Catalogues;" "Unfair Competition;" "Raising of Nursery Prices;" "Raising of Florists' Prices."

VAUGHAN'S LIST OF

Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots and budded	$2 00	$12 00
3 yrs. old, 3 to 4 ft., well branched, own roots and budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4 inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
KILLARNEY, 2 yr., budded	2 50	18 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, budded	2 50	16 00	135 00
3rd size, selected, budded	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3-inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00
TREE ROSE Baby Rambler, 1½ to 2½ ft. ..... each, 75c; per doz., 8 00
TREE ROSE Baby Rambler, 2½ to 3 ft. ..... each $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened. Write us for list and prices.

Manetti Stock for Grafting.

French Stock ..... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Deutzia Lemoine, pot-grown, 7-in. pots	25	2 50	20 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Rooted Cuttings.

	Per 100	1000		Per 100	1000
Maids	$1.50	$12.00	Brides	$1 50	$12.00
Moulton	1 50	12.00	Richmond	2.00	15 00
American Beauty				3 00	25.00
American Beauty, bench plants				7 00	65.00

Satisfaction Guaranteed.

GEO. REINBERG, 51 Wabash Avenue, CHICAGO, ILL.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.
ALBERT M. HERR, Lancaster, Pa.

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.
NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each; $30.00 per 100.
Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

ROSES

Summer Grown.
Winter Rested. On Own Roots.

TEAS.

	2½-in. 100	2½-in. 1000	4-in. 100
Bougere	$2.50	$22.50	$ 8.00
Bridesmaid	2.50	25.00	
Catherine Mermet	2.50	25.00	
Christine de Noue	3.00	27.50	8.00
Coquette de Lyon	2.50	25.00	8.00
Devoniensis (Magnolia Rose)	2.50	25.00	8.00
Duchesse de Brabant	3.00	25.00	8.00
Etoile de Lyon	2.75	27.50	8.00
Golden Gate	2.50	25.00	8.00
Isabella Sprunt	2.50	25.00	8.00
Ivory	2.50	25.00	8.00
Mme. de Vatry (Creole Beauty)	2.50	25.00	8.00
Mme. Lambard	2.75	27.50	8.00
Mlle. Cecile Berthod	2.50	25.00	8.00
Mlle. Francisca Kruger	2.50	25.00	8.00
Maman Cochet	3.00	25.00	8.00
Marie Guillot	2.50	25.00	8.00
Marie Lambert (Snowflake)	2.50	22.50	8.00
Marie Louise	2.50	22.50	8.00
Marie van Houtte	2.50	25.00	8.00
The Bride	2.50	25.00	8.00
Uncle John	2.50	25.00	8.00
White Bougere	2.50	25.00	8.00

HYBRID TEAS.

	2½-in. 100	2½-in. 1000	4-in. 100
Antoine Verdier	$3.00	$25.00	$ 8.00
Bessie Brown	3.00	27.50	8.00
Blumenschmidt (New)	10.00	100.00	25.00
Etoile de France	3.50	30.00	8.00
Helen Gould (Baldwin)	3.00	27.50	8.00
Jacob's Perle (New)	10.00	100.00	25.00
Kaiserin Augusta Victoria	3.00	30.00	8.00
Kaiserin Goldifolia (New)	6.00	50.00	15.00
Lady Battersea (Red Niphetos)	3.00	27.50	8.00
Mme. Abel Chatenay	3.00	25.00	8.00
Mme. Jenny Guillemot	4.00	35.00	12.00
Mlle. Helene Gambier	3.00	27.50	8.00
Meteor	3.00	27.50	8.00
Rhea Reid (New)	10.00	100.00	25.00
Souvenir de Pres. Carnot	3.50	30.00	8.00
Striped La France	3.00	27.50	8.00
Wellesley	3.00	30.00	8.00
White La France	3.00	27.50	8.00
William R. Smith	6.00	50.00	

CLIMBERS.

	2½-in. 100	2½-in. 1000	4-in. 100
Caroline Goodrich (Noisette)	$2.50	$25.00	$ 7.00
Climbing Devoniensis (Cl. Tea)	2.50	25.00	8.00
Climbing Meteor (Cl. H. T.)	3.00	27.50	
Climbing Soupert (Cl. H. P.)	2.50	25.00	7.00
Empress of China (Cl. Ben)	2.50	25.00	7.00
James Sprunt (Noisette)	2.50	25.00	7.00
Marechal Niel (Noisette)			10.00
Mary Washington (Noisette)	2.50	25.00	7.00
Reine Marie Henriette (N.)	2.50	25.00	
Reve d'Or (Golden Chain, Cl. T.)	2.50	25.00	8.00
Solfatare (Noisette)	2.50	25.00	7.00

HARDY CLIMBERS AND RAMBLERS.

	2½-in. 100	2½-in. 1000	4-in. 100
Baltimore Belle	$2.50	$25.00	$ 7.00
Crimson Rambler	3.00	25.00	8.00
Debutante	2.50	25.00	7.00
Dorothy Perkins	2.50	25.00	
Keystone	2.00	25.00	
Lady Gay	2.75	27.50	7.00
Manda's Triumph	2.50	25.00	7.00
Philadelphia Rambler	3.00	25.00	8.00
Pink Rambler	3.00	25.00	8.00
Prairie Queen	2.50	25.00	7.00
Russel's Cottage	2.50	25.00	7.00
Seven Sisters	2.50	25.00	7.00
South Orange Perfection	2.50	25.00	7.00
Sweetheart	2.50	25.00	7.00
Tennessee Belle	2.50	25.00	7.00
Universal Favorite	2.50	25.00	7.00
White Rambler	3.00	25.00	8.00

MISCELLANEOUS.

	2½-in. 100	2½-in. 1000	4-in. 100
Anny Muller (Pink Baby Rambler)	$2.50	$25.00	
Burbank (Bourbon)	2.50	25.00	$ 8.00
Clothilde Soupert (Hy. Pol.)	3.00	25.00	8.00
Conrad F. Meyer (Hy. Rug.)	3.50	35.00	
Hermosa (Bourbon)	3.00	27.50	8.00
Mrs. DeGraw (Bourbon)	3.00	27.50	8.00
Mosella (Hy. Pol.)	3.00	25.00	8.00
Phyllis (New Dwarf Ramb.)	10.00	100.00	15.00

Hardy Hybrid Perpetual and Moss Roses

In good assortment, 2½ and 4-inch at special prices.

For choice of stock send order or want list now.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO

Grafted Roses

ON SELECTED MANETTI

Clean, healthy wood. Grown especially for grafting

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100.
Rhea Reid, $15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

Jackson & Perkins Co.
NEWARK, NEW YORK

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond.
Rose pots, $15.00 per 100; 3½-in. pots $18.00 per 100.
Brides, Bridesmaids, Golden Gates, Kaiserin, La France,
Rose pots, $10.00 per 100; 3½-in. pots $15.00 per 100.

OWN ROOTS

Rhea Reid, Chatenay, Richmond, Killarney, American Beauty.
3-in. pots $9.00 per 100; 4-in. pots $12.00 per 100.
Brides, Bridesmaids, Perle, La France,
3-in. pots $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Lucille Won Highest Honors

At Springfield, St. Louis and Utica.

A carnation which while a fancy of the highest exhibition type, yet has all the qualifications as a profitable commercial crop. Its beautiful color

WHITE OVERLAID WITH PINK,

size, stem, perfection of form, habit, productiveness and keeping quality place it unquestionably in the front rank. It is a coming standby and should be in every carnation grower's collection.

Write For Descriptive Circular.

$12.00 per 100. $100.00 per 1000. Fine Healthy Stock.

A. F. LONGREN, DesPlaines, Ill. HIGHLAND PARK GREENHOUSES, Highland Park, Ill.

Up-to-Date Directory

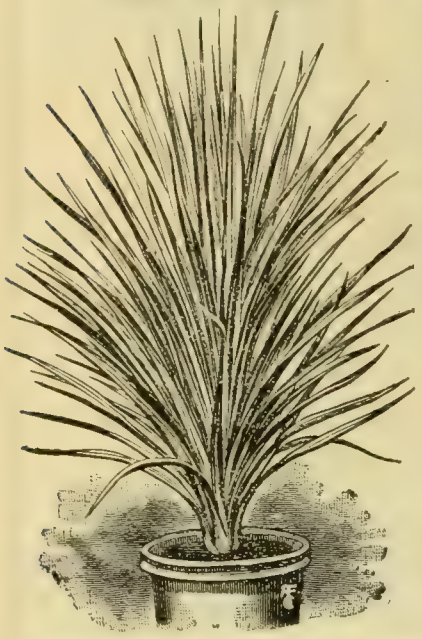
Giving all the Country's

Florists
Seedsmen
Nurserymen

PRICE $3.00.

Easter Lilies in Pots

Write for Prices.



Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

	Per doz.	Per 100
3-inch	$ 0.75	$ 6 00
4-inch	1.50	12.00
5-inch	3.00	22.50
6-inch	6.00	45.50
7-inch	7.00	
8-inch	12.00	

You can recommend these plants: first-class value for the money. If you don't want them shipped at once, we will reserve them until any date you name, only send in your order today.

Send for complete wholesale price list of Palms and Ferns.

The Geo. Wittbold Co.,

1657 Buckingham Place, CHICAGO.

Ashes As A Fertilizer.

The question often arises as to the value of ashes for fertilizer. Prof. Ten Eyck of the Kansas Experiment Station says that an average sample of unleached wood ashes contains about 7 per cent of potash, and 2 per cent of phosphoric acid, which at current prices of these plant foods would make the ashes worth about $9 per ton. Besides the actual fertilizing value, by reason of the potash and phosphoric acid contained, there is some value to ashes simply by the power which the potash has to make the nitrogen of the soil available for plant use by its chemical action upon the organic matter and humus of the soil. The potash in ashes exists in a readily soluble form and is thus immediately available for plant food. The grower can well afford to pay $8 to $10 a ton for good wood ashes. Coal ashes are of little value as far as plant food is concerned, but they can be used with good effect upon some soils in loosening them up.

Ashes can be used for any crops that need potash and they may be applied at the rate of 25 to 50 bushels per acre. For cultivated crops they should be applied broadcast after the land has been harrowed and then cultivated in by a light harrowing. They can be used also as a top dressing in connection with phosphate fertilizers. As will be noticed, Prof. Ten Eyck says that the unleached ashes are worth $9 per ton. As a matter of fact the leached ashes rarely have a value of more than $1 or $2 per ton, as the potash and phosphoric acid are washed out. If ashes are to be used they should be put in a dry place until ready to use, as much or more care being taken with them as with barnyard manure. And in this connection it might be well to state that ashes should never be mixed with manure of any sort as it sets the nitrogen free in the form of ammonia gas, and the quality of both the ashes and the manure is lowered. Sifted coal ashes, however, can be used for that purpose, as they absorb liquids readily and, because of the small amount of potash they contain, do not liberate nitrogen. It would be a good plan for those who have soils that need potash to collect all the wood ashes they can and use them for fertilizer.

GERANIUMS.

We have an immense stock of fine plants from 2-in. pots for immediate shipment, at prices running from $2.00 per 100 up to 50c. each. We will send 1000 50 each of 20 good sorts, our selection, for $18.50. Our Special Geranium Catalogue describes upwards of 250 varieties.

We have the following in first-class stock from 2-in. pots 25 at 100 rate, 250 at 1000 rate.

	Per 100	1000
Achryanthes, Emersoni	$2 00	$18 50
" Besteri Mosaica	2 00	18 50
Ageratum, Inimitable, Princess Pauline	2 00	18 50
" Dwarf White, Stella Gurney	2 00	18 50
Cineraria, Maritima Candidissima	2 00	17 50
Centaurea, Gymnocarpa	2 00	17 50
Hardy Chrysanthemums, send for list	2 00	17 50
Dahlias, Send for list of Standard and New varieties, only the best plants for spring delivery	2 00 and up.	
Fuchsias, in good varieties	2 50	
Hardy English Ivy,	2 00	15 00
Parlor Ivy, Senecio Scandens	2 00	
Lobelia, Kathleen Mallard, Double	2 00	18 50
" Crystal Palace Gem, Single	1 50	
Petunia, Dreer's Superb Single	2 00	
Salvia, Bonfire	2 00	18 50
" Zurich	3 00	22 50
Smilax, Extra strong	2 00	18 50
Verbena, Large flowering, red white, pink and blue	2 00	

R. Vincent, Jr. & Sons Co., White Marsh, Md.

FRESH STOCK, GUARANTEED TRUE TYPE

ORCHIDS

No Greenhouses Direct To You.

Cattleyas all collected in flowering season.

C. Mendelii arrives in May.
C. Mossiæ arrives in June.
C. Gaskelliana arrives in August.
C. Gigas Hardyana arrives in October.

C. Aurea arrives in October.

Miltonia Vexillaria now ready.
M. Roezlii arrives in October.

In any quantity. Place order early.

G. L. FREEMAN, 388 Appleton St., HOLYOKE, MASS.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World.

SANDER, St. Albans, England.

NEW YORK OFFICE: Room 1, 236 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

FLOWER SEEDS.

	Pkt.
Begonia Dichroa, Ruby	$ .50
Stocks, Cut and Come Again, asst	.50
" Early Brompton or Nice, asst	.50
Salvia, Bonfire, Farinacea	.25
" Triumph, Zurich	.50
Petunia, large flowering, fringed and stained	.50
" Howard's Star, Inimitable	.25
Lobelia, Lugdenensis, Hamburgia	.25
" Barnard's Perpetual, White Lady	.25
Myosotis, Stricta, 3 colors	.20
" Robusta Grandiflora, 2 colors	.20
Poppy, Alpine, fine for pots	.15

All other standard varieties in fresh stocks. Catalogue on application.

Fresh Tobacco Stems, $1.50 per 300 lbs.

W. C. BECKERT, North Side, **Pittsburg, Pa.**

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Orchids! Orchids!!

The Liverpool Orchid & Nursery Co., (Cowan's) Limited,

Gateacre Nurseries, Gateacre near Liverpool, Eng

Raisers, Growers and Importers of Orchids.

Illustrated, descriptive and priced catalogues postpaid free on application. Cablegrams: "COWAN, GATEACRE" A B C code, 5th edition.

The New Crested SCOTTII FERN... NEPHROLEPIS SCHOLZELI

NEPHROLEPIS SCHOLZELI

This crested sport of Scottii will hold the same position to all the crested forms of Nephrolepis that Scottii now holds to the Boston. It is entirely distinct from all others and will become even more popular than its parent, with which it is identical in every way except that the pinnæ are subdivided, giving it a beautiful crested appearance.

We have shown the plant at the exhibitions noted below and have been awarded the following honors:

SHAW GOLD MEDAL, St. Louis Horticultural Society, Nov. 3rd, 1908, for "Best plant of decided merit for cultivation, not previously an article of North American commerce."

SILVER MEDAL, Offered by the Society of American Florists, through the St. Louis Horticultural Society, Nov. 3rd, 1908, for "The most meritorious plant or flower of American origin".

CERTIFICATE OF MERIT of the Horticultural Society of St. Louis, Nov. 3rd, 1908.

SILVER MEDAL, Pennsylvania Horticultural Society, Philadelphia Nov 3rd, 1908, for the best new plant.

CERTIFICATE OF MERIT, Massachusetts Horticultural Society, Boston, Nov. 6th 1908.

CERTIFICATE OF MERIT, Dutchess County Horticultural Society, Poughkeepsie, N. Y., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Morris County Gardeners and Florists' Society, Madison, N. J., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Chestnut Hill Horticultural Society Philadelphia, Pa., Nov. 4th, 1908.

We are booking orders now, which will be filled in strict rotation June 1st, 1909.

PRICE: **Per doz., $3 50; per 100, $25.00; per 1000, $200.00. Twenty-five supplied at hundred rate and five hundred at thousand rate.**

HENRY A. DREER, 714 CHESTNUT STREET PHILADELPHIA, PA.

Pittsburg.

BUSINESS BETTER.

We are still feeling the effects of Lent but as flowers were not so plentiful last week, business on the whole is better. Bulb stock of all kinds is very plentiful. At both the downtown and north side markets very fine tulips are selling at the country people's stands for 35 cents per dozen.

St. Patrick's day created the usual strong demand for white carnations which were not over plentiful to begin with. Roses are moving nicely with increased quantities coming in.

NOTES.

The Florists' and Gardeners' Club met March 2 with an exhibition of bulb stock. Fred Wiesenbauch took the Beckert prize for best pan of tulips which curiously enough was grown in the cellar. N. C. Madsen, Sewickley, got a cultural certificate for cyclamens which every one thought were the best ever shown at the club meetings. H. C. Buchler, of the South View Floral Co., showed a vase of Rose Pink Enchantress carnations which had been cut for three days. Mr. Buchler believes his strain of this variety has not the sleepy qualities generally credited to it, and for this purpose displayed them. Foreman Jones of the Phipps conservatories had his usual grand display; it is a pity that park flowers cannot compete for prizes, as Mr. Jones would certainly have a good many to his credit. He called attention to one well done tulip, Prince of Austria, which is a favorite with him.

The carnation convention for next year was fully discussed, principally the meeting place. It was finally decided to leave it in a committee's hands who will report the place selected at next meeting. Plans were also discussed on ways to increase the membership. Some members, however, stated that it would be a wise policy to make the meetings more interesting to those who are already members and then it would be no trouble to get new ones.

Among the wholesalers, the strong features would probably be: Orchids and gardenias at The McCallum Co. Lilies at the Pittsburg Cut Glower Co. American Beauty roses at the Florists' Exchange and some fine tulips at J. B. Murdoch & Co.

Randolph & McClements, in their Pennsylvania avenue store showed a very handsome window decoration, in the way of a set table graced with yellow snapdragon, primroses and orchids.

L. I. Neff has announced that he will open a cut flower and plant auction March 17 in Bellevue.

J.

CLEVELAND, O.—G. M. Naumann who has greenhouses at 1632 East One Hundred and Fifth street, has opened a retail branch at One Hundred and Fifth street and Superior avenue. The interior and exterior of this new flower store looks very attractive and with Willy Naumann in charge, it is believed the new enterprise will be a success.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c
Vinca Alba, Cuphea, Swainsona, Dbl. Alyssum, Abutilons, Alternanthera, Coleus, Feverfew (Gem). 2-in., 2c. **Asters,** Earliest, 40c per 100. **Stocks,** Princess Alice, 40c per 100.
Hollyhock, Single field. $2 00 per 100.
Wallflowers, field. $1.00 per 100.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white, yellow: **Swainsona,** alba, $1 00: **Dbl. Petunia,** 10 kinds, $1.00: **Heliotrope,** $1.00: **Vinca Var.,** 90c, $8 00 per 1000: **Alternanthera,** 3 kinds 50c: **Ageratum, Coleus,** 60c., $5 00 per 1000: **Artillery Plant, Hardy Pinks,** 75c: **Flowering Begonias,** $1 25 **Fuchsias,** 8 kinds, $1.00: **Salvia,** Splendens, Bonfire, 90c per 100: **Parlor Ivy,** 75c: **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

HEADQUARTERS FOR

ARAUCARIAS

"By jingo," was the remark of a bright looking gentleman as he stepped with his lady friend into one of our Araucaria houses. "If these are not the best shaped and finest looking specimens of **Araucaria Robusta Compacta, Glauca** and **Excelsa** I have ever seen, *then I am a shade.* ☞ Just look! What a sight this time of the year, one as nice as the other!"

Araucaria Robusta Compacta, Glauca and Excelsa. Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds, same as when we first started. Why the Araucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen. As big as an elephant, for 75c; as big as a jumbo for $1.00; and as big as a holy terror, for $1 25 to $1.50.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50 $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old 4-5-6-7 tiers 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

GODFREY ASCHMANN
Importer Wholesale Grower and Shipper of Pot Plants.
1012 W. Ontario St., **PHILADELPHIA, PA.**

The Fruit Auction Company,

200-202-204 FRANKLIN STREET

ANNOUNCES DAILY SALES AT AUCTION OF FOREIGN AND DOMESTIC GROWN

Roses, Shrubs, Evergreens, etc.; Bulbs of every description; Flowering Plants, Palms, Bedding Stock, etc., etc. from leading growers and importers.

Catalogues Mailed On Request. Correspondence Invited.

Special. On **Tuesday, March 23rd,** we will offer an exceptional assortment of Holland Roses, Rhododendrons, Azaleas, Shrubs, Evergreens, etc. Also a consignment of Tuberoses, Gladioli, Canna Roots, Dahlias, etc. in all sizes—true to name. Thereafter every day (excepting Monday) throughout the season.

Terms Cash. **JOHN P. CLEARY, Auctioneer.** **Prompt Delivery.**

Growers and dealers will please note that account sales with remittance is rendered **immediately after each auction.**

THE FRUIT AUCTION CO., **200-204 Franklin Street,**
P. O. Box 640. NEW YORK CITY. Telephone 1515 Franklin.

Until Further Notice Sales Begin At 10:30 a. m. Sharp.

Gladioli. Not the largest stock, but as good as any.

Iris Germanica, Madeira and Cinnamon Vines.

The argest and best stock in the country.

Lilies, Hyacinthus Candicans, Spotted Callas, Oxalis, Millas, Besseras, etc.

In fine bulbs.

Iris Kaempferi and other Hardy Plants.

Price List on application.

E. S. MILLER,

Wading River, Long Island, N. Y.

European Horticulture.

FROM THE GERMAN TRADE PAPERS.

PRIMULA KEWENSIS.—Of plants very much spoken of at present and discussed by matter of fact practitioners and scientists alike Primula Kewensis is not the least interesting. It is a winter flowering primrose that sprang into existence more than 10 years ago at Kew as a chance seedling of P. floribunda, accidentally fertilized by P. verticillata, and, owing to its strikingly unique combination of characteristics, not attributable to either parent, at once compelled widespread attention. For years it could only be perpetuated by dividing the older plants which obstinately refused to bear seeds. Now, however, seeds, claimed to come uniformly true, are listed in an Erfurt seed catalogue. Kewensis bears clear yellow flowers in great profusion from January until May, and, if sown late, until away into summer. The foliage is very large and of a deep green color, and the plants in habit of growth and cultural requirements are said to somewhat resemble P. obconica.

CHRYSANTHEMUM CENTENNIAL.—In 1808 at a reception given by Napoleon Bonaparte a certain Monsieur Blancard, a merchant of Marseilles, France, just returned from his travels through eastern Asia, presented the Empress Josephine with a few strange flowers, the first of Chrysanthemum Indicum brought from Japan to Europe.

NO SUNDAY FUNERALS.—The new law prohibiting the burial of the dead on Sundays has gone into effect in over 30 German cities. The measure was made the subject of lengthy and lively discussion at the fifth national convention of cemetery officials, held at Kiel recently, with results not made public as yet.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt Doyle, Perkins Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-ih pots, $2.50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-in., $2.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch, $10.00 per 100.
Rex Begonia, $5.00 per 100.
Coleus, red and yellow; **Cigar Plant; Scarlet Sage** (Salvia), Bonfire, 2-in., $2.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newport, N. J.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud..... 1 00
Strong plants bloom in April.....Per 1000, $5.00
Smaller size plants .....Per 1000, 4.00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**
Grower of the Finest Pansies.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

GET YOUR ORDER IN FOR EASTER PLANTS

Lilies, Spireas, Azaleas, Hydrangeas, &c., &c.

Will ship Lillies in paper pots so they will reach you in fine shape. All will be in for Easter. Ask us to send you our Soft Wooded plant list. **Dreer's Fancy Petunias. Fine Fuchsias, Salvia Zurich, Geraniums, etc., etc.**

GEO. A. KUHL, PEKIN, ILL.
Wholesale Grower.

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns. Boston 4-in. pots, $1.50 per doz., $10 00 per 100: Boston, 3-in. pots, $4.00 per 100: Whitmani, 3-in. pots $5.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100.
Cannas, King Humbert and Mt. Blanc, 3-in. pots, $5.00 per 100.
Dracena Indivisa, 5-in. pots, $2.00 per doz.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots, $5.00 per 100.
Clematis, large flowering varieties, dormant plants, $15.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
Ficus Elastica, 6-in. pots, 25c each.
ROOTED CUTTINGS from soil. $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem), Coleus (Verschaffeltii and Golden Bedder), Alternantheras, 4 varieties, 50c per 100, from sand.
Carnations. R. C., from soil, $2.00 per 100—Pink: Enchantress, Dorothy; scarlet: Robt. Craig, Elbon; white: Flora Hill, B. Market,—Winsor, $3.00 per 100.
Hyacinths, red, white and blue, first size bulbs, just right for Easter, $10.00 per 100.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high.....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high.....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each, $7.50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

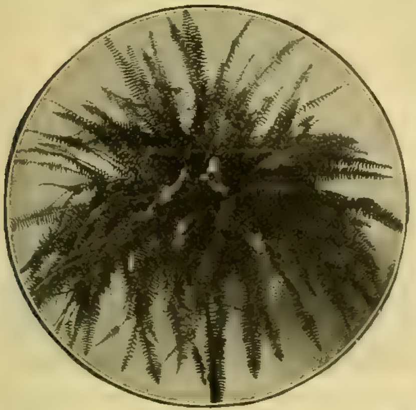
J. W. DAVIS,
225 W. 16th St., DAVENPORT, IOWA

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa

LARGE FERNS FOR EASTER



		Per 100
Boston and Piersoni,	5-in	$25.00
" " "	6-in	40.00
" " "	8-in	100 00
" " "	10-in	150.00
Scotti, Whitmani and Elegantissima,	5-in	50.(0
" " "	6-in	75.00
Asparagus Plumosus,	4-in	8.00
" "	5-in	15.00
" "	6-in	20.00

MOSBAEK GREENHOUSE COMPANY,
ONARGA, ILLINOIS.

VERBENAS 70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100: $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000. All rooted cuttings.

GERANIUMS, from 2¼-in. pots, at $2.50 per 100; $22.00 per 1000.

Express prepaid on rooted cuttings.
Cash with order. Write

S. D. BRANT, Clay Center, Kan.

PANSY PLANTS.

100,000 large flowering from fiield beds,
50c per 100; $2.50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000;
No order taken for less than 1000.

Drake Point Greenhouses, Yalaha, Florida

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Varieg.,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula,** Obc. Grandif. Lilac, 2¼-in., strong stock, $1-75 per 100: 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

PREPARE FOR EASTER

From Whom Will We Purchase Our Easter Supply?

From our old friend, Godfrey Aschmann, of course. He has been our man in the past, and will be the man this year: he also will be the man in the future. He has always treated us right. What he advertises he has and he is no bluff.—An immense stock of **Choice Easter Plants** now ready for immediate shipment. Blooming Easter week or before if desired.

If you would know the fairest sight your eyes can
 ever see,
Where the most perfect plants are grown, to
 Aschmann's come with me.
Why! Ne'er since flowers began to bloom was
 such a glorious show
Of all the best that florists need, found in one place
 to grow.
The lilies are the very best yet seen on Easter day,
Azaleas are whole sheets of flowers perfect in
 every way.
The Araucarias matchless are so are the ferns
 all green,
With bulbs, and plumed Spirea, the best you've
 ever seen
And Aschmann gives a challenge let every florist
 hear,
For flowers or prices, either no rival does he fear.
If you wish to gather dollars like violets in the
 spring,
Then send your largest order, his plants the cash
 will bring.

AZALEA INDICA.

We are headquarters for these plants for the past twenty-five years. We make a specialty of importing large quantities of this so well known favorite Easter novelty Grown for us in Ghent, Belgium, by an Azalea specialist. Have now three houses full of the choicest. Only well known American varieties are imported They are planted in the fall, as soon as they arrive from Belgium, into 6 7 and 8 in. pots, planted in greenhouses and kept cool during winter. They are now in excellent condition, covered with buds, just right for Easter.

☞ We only ship good stock and full of buds and flowers

☞ If you need Azalea plants, don't look in vain around the country for bargains, but come or write direct to us. We will be able to supply you with the best obtainable in the American market at moderate prices.

☞ What is the name of the best double pink Azalea? Mme. Van der Cruyssen is the name. Originated by the well known Azalea specialist, Mr. Van der Cruyssen of Belgium. Millions are raised every year and shipped into every part of the globe from Belgium. We have a big stock on hand of this well known variety. Every plant is as round as an apple, covered with buds just right for Easter Have all sizes for 60c, 75c, $1.00, $1.25, $1.50, $1.75 to $2.00 each.

Deutsche Perle (double white) 75c, $1.00, $1.25 to $1.50; Bernard Andreas Alba (white) we have mostly big plants of this variety. $1 50, $2.00, $3.00 to $3 50, a few at 75c, $1 00 to $1 25; Niobe (also white) 75c, $1.00, $1.25 $1.50 to $2.00 each.

Vervæneana, De Schryveriana (double variegated). 75c, $1.00, $1.25 to $1.50; Dr. Moore and Memorie de Louis Van Houtte (double pink) $1.00, $1.25 to $1.50; Apollo (red), 50c 60c, 75c to $1.00; other good varieties, such as John Llewellyn, Empress of India, Talisman, Helena Thielmann, Illustre, etc., 50c, 60c, 75c to $1.00; Professor Wolters, 75c $1 00 to $1.25.

When we are out of one color we send the next similar color; also if we are out of the size ordered, we send the next size, either above or below the price mentioned.

☞ Outside of the Deutsche Perle we have none of the small sizes of white to offer. All the small sizes of Niobe and Bernard Andreas Alba lost their buds during the winter and in transportation from Belgium. They never do good the first year, but are fine the next year.

☞ All the other varieties which we advertise are tip-top No. 1 stock.

Easter Lilies. Lilium Multiflorum, the genuine Japanese Easter lily, directly imported by us. We have a friend in Japan who looks after our interests there. He picks out for us only the good, healthy ones, and marks them while they are growing, the 10-in. bulbs, and therefore he ships to us the cream of the plants of Japan. We have Lilies this year to burn; can supply, if nothing happens, every customer and others who want Lilies. If you see them growing in our greenhouses, you must all admit they are "crackerjack9"; we sell them cheap, too. Where other florists get 15c per bud, we only charge you 10c per bud for plants in 6-in. pots, having 5 8 10 and more buds to the plant. Plants under 5 buds, 12c per bud, 6-in. pots.

Jerusalem Cherries, large plants, full of buds, 6 to 6½in. pots, 35c, 50c.

Moonvines (Ipomœa Multiflora), best white Moonvine for which we have a world-wide reputation now ready 2½-in. pots, $5.00 per 100.

Hybrid Rose Bushes, grafted, long plants, 30 inches to 3 feet high, John Laing Brunner, Magna Charta etc. 6-in pots, 50c, 75c to $1.00. **Rambler Dorothy Perkins,** etc. 5½ in., 50c; **Hermosa,** 5 in. 35c; 6-in. large stock, 50c.

Begonia new improved Erfordi, 5-in., $2.00 per doz; **Begonia Flambeau** 5-in $2.00 per doz

Spirea Gladstone. This variety owing to the dry summer in Holland last year is very scarce this Easter, but we were fortunate enough to secure sufficient to fill our usual house, and the plants are now in fine condition, full of buds just right for Easter, 6-7 in. pots, 50c, 75c to $1 00 each. Spirea Floribunda, Japonica and Superba, 6-in. pots, 25c, 35c to 50c.

Primula Obconica, 5-in. pots, $2.00 to $2.50 per doz.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot $2.50 to $3 00 per doz. pots.

Hyacinths, 4 best colors, King of the Blues, Grand Maitre (light blue), La Grandesse (best white), Gertrude (best pink) 4-in. pots, $12.00 per 100. Now outside in cold frames. Two weeks will force them into bloom.

Asparagus Plumosus Nanus, 3-in., $5.00 per 100

Hydrangea Otaksa, in bud, 6-7 in. pots, 50c, 75c to $1 00 each.

Cineraria Hyb. Grandiflora, H. F. Michell's new improved strain. Our plants of this strain are twice the size of those of other years, with perfect, large, green foliage. Some of the plants are almost as large as a bushel basket. 6-in. pots, 25c 35c 50c 75c to $1.00 each.

Areca Lutescens, 4-in. pots, three plants in a pot 25c.

Ficus Elastica (Rubber), 5½ to 6 in pots 25c; 30c 40c to 50c.

Boston Ferns, 6-in pots 50c; 7-in. pots, 75c; $1.00 to $1 25; 8-in. pots, $1.50.

Scottii Ferns, 5½-in. pots, 40c; 6-in. pots, 50c; 7-in. pots 75c to $1.00; 8-in. pots $1.50.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c, $1 00 to $1.25; 9-in pans, as big as a washtub $1.25 to $1.50.

Neph. Amerpohli, 5¼ 5½ to 6 in. pots, 30c, 40c and 50c; 6-in., 60c to 75c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots 25 to 30 in high 50c to 60c; 4-in. 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25, 30, 40 to 45 in. high 75c, $1.00 $1.25 $1.50 to $2 00 each

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c, 60c to 75c.

A Few of Many Testimonials Received Lately.

The Cherokee Greenhouses
Camden, S. C. March 9th, 1909.

GODFREY ASCHMANN,
1012 Ontario Street Philadelphia:

Dear Sir:—Plants received yesterday in excellent condition. Thanks for your selection.

Yours truly, S. M. SHANNON.

Chicago, Ill., March 1, 1909.

GODFREY ASCHMANN Phila:

Dear Sir:—I was so well pleased last Easter with the collection of Azaleas that I have sent you another order. (The order of Azaleas specified.)

MRS. H. LOWE, 1102 N. 43rd Ave.

Dozens of more testimonials on application.

Please state if in or out of pots.

☞ All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., Philadelphia, Pa.

Importer, Wholesale Grower and Shipper of Pot Plants.

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Hydrangea Otaksa, 6 to 7-in., 35c to $1. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Ivy, hardy English, 3-in., $5 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

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Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunia Marvel, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

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Primula obconica, 5-in., $2 per doz. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Rooted cuttings from soil, $1 per 100; Heliotrope, fuchsias, 4 vars.; cupheas, petunias, dbl. white; Vinca Var., feverfew, Little Gem; Coleus, Vers. and Golden Bedder; alternantheras, 4 vars., 50c per 100 from sand. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots and budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots and budded, $3 per doz.; $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins: Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $3 per doz.; $20 per 100; $150 per 1,000; 2nd size, budded, $2.50 per doz.; $16 per 100; $135 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Tree Baby Rambler, 1½ to 2½ ft., 75c each; $8 per doz.; 2½ to 3 ft., $1 each; $10 per doz. Killarney, 2-yr., budded, $2.50 per doz.; $18.50 per 100. Vaughan's Seed Store, Chicago and New York.

ROSES. American Beauty, 2 or 2½-in., $7 per 100; $65 per 1,000; 3 or 3½-in., $9 per 100; $85 per 1,000. My Maryland, grafted strong stock, 3 or 3½-in., $20 per 100. My Maryland, own roots, 3 or 3½-in., $12 per 100. Killarney, own roots, 2 or 2½-in., $6 per 100; $55 per 1,000; 3 or 3½-in., $7.50 per 100. Bridesmaid, Bride, Richmond, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Mrs. Potter Palmer, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Perle, 2 or 2-½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Kaiserin, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Uncle John, 2 or 2½-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

GRAFTED AND OWN ROOT ROSES.

Grafted 2½-in. pots	Per 100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
My Maryland	$10.00	$90.00
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

Roses, dormant field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wotton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, hybrid perpetual, dormant field-grown, $11 per 100; $100 per 1,000. Moss, field-grown, $12 per 100. Hardy climbing, field-grown, $8 per 100. Tree roses, 4 to 5 ft., $30 per 100. Storrs & Harrison Co., Painesville, O.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses, R. C., Maid, Bride, Moulton, $1.50 per 100; $12 per 1,000. Richmond, $2 per 100; $15 per 1,000. Am. Beauty, $3 per 100; $25 per 1,000; bench plants, $7 per 100; $65 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Rose, White Killarney, 2¼-in., own roots, $30 per 100; 250 for $70; 500 for $125; 1,000 for $250; grafted plants, $35 per 100; 250 for $82.50; 500 for $150; 1,000 for $300. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, Richmond, Bride, Bridesmaid, rooted cuttings, $2 per 100; $15 per 1,000; 2-in., $2.50 per 100; $20 per 1,000; 2½-in., $3 per 100; $25 per 1,000. Quality guaranteed. E. B. Sage, Red Rock, McKean Co., Pa.

Grafted roses, strong, healthy stock, Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses. Ask for our catalogue and get your rose lists priced. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Roses, rooted cuttings, Perle and Kaiserin, $4 per 100; $35 per 1,000. Maid, Bride, Richmond, $2 per 100; $15 per 1,000. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses, Kaiserin, bench plants, $6 per 100; $60 per 1,000. Wietor Bros., 51 Wabash Ave., Chicago.

Roses, 2,500 2 to 2½-inch Richmonds, fine stock, $25 per 1,000. Sinner Bros., 60 Wabash Ave., Chicago.

Rose, Taft, 2-in., $15 per 100. The Hyde Park Rose Co., Wasson Ave. and McCormick Rd., Hyde Park, Cincinnati, O.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses. White Killarney and My Maryland. A. N. Pierson, Inc. Cromwell, Conn.

Roses, Bride and Maid, 2¼-in., $3 per 100; $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Roses, 400 sorts, 2½ and 4-in. Leedle Floral Co., Springfield, O.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses. Chas. H. Totty, Madison, N. J.

SALVIAS.

Zurich, type reselected for 2 yrs., R. C., $1.25 100; $10.00, 1,000; 2-in., $2.50, 100. Lord Fauntleroy, R. C., $1.00, 100; 2-in., $2.00, 100.

J. L. Schiller, 929 Prouty Ave., Toledo, Ohio.

Salvias, 2-in. Bonfire, $2 per 100; $18.50 per 1,000. Zurich, $3 per 100; $22.50 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvia Bonfire, $2 per 100; $18.50 per 1,000. Zurich, $3 per 100; $22.50 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvia, Zurich, R. C., $1.50 per 100; $12.-50 per 1,000. Perennial Gardens Co., Toledo, O.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia splendens, Bonfire, R. C., 90c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvias, 5 varieties, R. C., $1; 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

SEEDS.

Seeds, alyssum, Vaughan's Little Gem, lb., $3.50; tr. pkt., 10c; oz., 35c. Asparagus plumosus nanus, 100 seeds, 50c; 1,000 seeds, $3.50; 5,000 to 10,000 seeds, $3.25 per 1,000. Begonias, Berna, tr. pkt., 15c. Salmon Queen, Semperflorens, Red Lubecca, tr. pkt., 25c. Lobelia, Bedding Queen, tr. pkt., 15c; ⅛ oz., 25c; oz., $1.50; Speciosa, tr. pkt., 10c; oz., 55c; Hambrugin, tr. pkt., 25c; Maurandya, ¼ oz., 25c; tr. pkt., 10c; oz., $1. Petunias, Vaughan's best mixture, large flowering, tr. pkt. (1,000 seeds), 50c; 3 pkts., $1.25; Howard's Star, tr. pkt., 10c; oz., 80c; Snowball, ⅛ oz., 25c; tr. pkt., 10c; Salvia Splendens, Clara Bedman or Bonfire, tr. pkt., 25c; oz., $2.50; Salvia Zurich, ¼ oz., $1.25; tr. pkt., 25c. Smilax, new crop, lb., $3; tr. pkt., 10c; oz., 25c. Stocks, Prince Bismarck, tr. pkt., 25c. Thunbergia, mixed, tr. pkt., 10c; oz., 40c. Verbenas: Defiance, tr. pkt., 10c; oz., 80c; Firefly, tr. pkt., 15c; oz., $1.20; Mammoth mixed, tr. pkt., 10c; oz., 80c; white, tr. pkt., 15c; oz., $1; rose and carmine shades, tr. pkt., 25c; oz., $2; purple, tr. pkt., 25c; oz., $2; Mayflower, tr pkt., 15c; oz., $1; choice mixed and Venosa, tr. pkt., 5c; oz., 20c; Lemon (citriodora), tr. pkt., 20c; oz., $1.25; Vaughan's Best Mixture, tr. pkt., 25c; ¼ oz., 50c; oz., $2; 2 ozs., $3.50. Vaughan's Seed Store, Chicago and New York.

Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis, Hambergia, pkt., 25c; Barnard's Perpetual, White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi., 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg, Pa.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. O. V. Zangen, Hoboken, N. J.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

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Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

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Seeds, sweet peas. Anton C. Zvolanek, Boundbrook, N. J.

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Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, choice German flower seeds. Fredrick Roemer, Quedlinburg, Germany.

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Seeds. D. Landreth Seed Co., Bristol, Pa.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

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Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

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Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

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Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2 per 100; $18.50 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

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Spiræa Gladstone, 6-in., 40c to 75c. Japonica floribunda grandi., 6-in., 25c to 35c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Spireas. Jacs Smits, Ltd., Naarden, Holland.

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VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, large flowering red, white, pink, blue, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

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Vinca variegated, R. C., $1; 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

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Princess of Wales, Luxonne, California violets, rooted runners, clean and free from disease, $1 per 100; $8 per 1,000. Cash with order. Jacques Gillmet, Moylan, Del. Co., Pa.

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Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., N. Y.

Guttman, Alex. J., 34 W. 28th St., New York.

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State Nursery Co., Helena, Mont.

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Weiland & Risch, 59 Wabash Ave., Chicago.

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Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

BOILERS.

Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers. Meyers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, N. Y.

Boilers, boilers of high grade for greenhouses. Steam or hot water. Giblin & Co., Utica, N. Y.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., N. Y.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

Rococo boilers and hot water heaters. American Heater Foundry Co., West Chicago.

BUILDING MATERIAL.

Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouses and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material, cypress sash bars. Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

If you do not find what you need in our Ready Reference Department, write us about it.

Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress"; everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

Greenhouse material. Louisiana red cypress. Louisiana Red Cypress Co., Hibernia Bldg., New Orleans.

Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes, Established 1851. John B. Smith & Sons, Ltd, Toronto, Can.

Building material of all descriptions for all cypress, semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Sunlight double glass hotbed sash. Sunlight Sash Co., 506 Floyd St., Louisville, Ky.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No right or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburgh, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chicago and New York.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chcago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. Y.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction and equipment. King Constructon Co., North Tonawanda, N. Y.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters. Jenning's improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

HOSE.

CRESTLINE SPECIAL, Garden Hose. Made in three different weights. A tough, durable hose that has the life in it. Every section guaranteed. State whether black, red or white.

Price with couplings:	5-ply.	6-ply.	7-ply.
½-in., per 50 ft.	$4.00	$5.00	$5.50
½-in., per 100 ft.	7.75	9.75	10.75
¾-in., per 50 ft.	4.50	5.50	6.00
¾-in., per 100 ft.	8.75	10.75	11.75

Immediate shipment. Express or freight.
THE CRESTLINE MFG. CO.,
Box 233, Crestline, O.

INSECTICIDES.

Insecticides, tobacco paper, 24 sheets, 75c; 144, $3.50; 288, $6.50; 1,728, $35.10. Nicofume liquid, pint, $1.50; ½ gal., $5.50; gal., $10.50; 5 gals., $47.25. The Kentucky Tob. Product Co., Louisville, Ky.

Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton, $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

Insecticides. Nicoticide Bug Killer, the best bug killer and bloom saver. P. R. Palethorpe Co., Owensburg, Ky.

Fumigating supplies, vaporizing pans for tobacco extract, improved. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

"Sulfocide" Pratt's Soluble Sulphur Summer Spray. B. G. Pratt Co., 50 Church St., New York.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

VI Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

KNIVES.

Razor steel, hand forged, postpaid. Propagating, 50c; budding, 35c; grafting, 25c; pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, Ohio.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

MISCELLANEOUS.

Krick's Perfect Plant Stand No. 1, including 10-inch saucer and rest, $2.35; No. 2, 14-inch saucer and rest, $2.50. W. C. Krick, 1166 Greene Ave., New York.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Strawberry Blight. Its cause and cure, price of book, $2. Wm. C. Trimble, Princeton, Ill.

The Kinney pump, prepaid, $2. The Hose Connection Co., Kingston, R. I.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Pl., Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Gunmed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co, 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Stuttle's patent pipe clamp. Henry Stuttle, Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, N. Y.

PUMPING ENGINES.

Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

STAKES.

Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.
Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

Morehead Return Steam Traps. Morehead Mfg. Co., 1047 Grand River Ave., Detroit, Mich.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

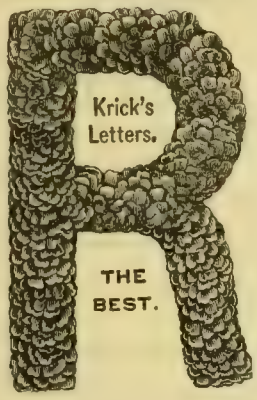
Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Iron reservoir vases. McDonald Bros., Columbus, O.

VENTILATING APPARATUS.

Ventilators. One Wolf Roller Bearing Machine is raising uniformly 50 heavy hotbed sash. Most powerful and labor saving. Send for estimates and references. The Wolf Machine Co., Dayton, O.

If you do not find what you need in our Ready Reference Department, write us about it.



The Only Genuine Immortelle Letters, Inscriptions, Etc., Are Krick's.

THE LETTER OF QUALITY

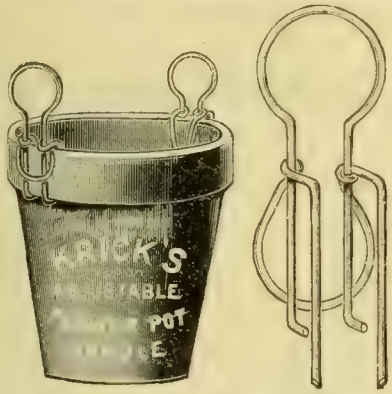
Has stood the test of years. The best and cheapest on the market.
Order by name. Accept no substitute. (Every letter marked.)

For full particulars address

W. C. KRICK, 1164-1166 Greene Ave., Brooklyn, N. Y.

For Sale by All Up-to-date Supply Houses.

Have You Used the **Perfect Flower Pot Handle and Hanger**



It is just the thing for you to display your Easter plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of **one hundred pounds.**

No. 1 will fit from 2 to 5-inch pots.....per doz., 30c
No. 2 will fit from 5 to 8-inch pots..... " 40c
No. 3 will fit from 8 to 12-inch pots..... " 50c

By mail, 10c extra per doz. Sample pair, 10c postpaid.

Krick's Perfect Plant Stand

This Stand Is Adjustable and Folding. Can be raised from 24 to 40 inches in height. The top of stand is furnished with a saucer and curved rest, used to tilt plants for decorations.

Are Tastefully Finished in Aluminum and Gilt.

No. 1, including a 10-inch saucer and rest.....$2.00
No. 2, including a 14-inch saucer and rest..... 2.25

Pat. Nov. 21, 1899.

W. C. KRICK, 1164-1166 Greene Ave., Brooklyn, N. Y.

Buffalo.

STOCK PLENTIFUL.

Weather conditions are as variable as only March can produce. Trade is only fair and stock is still very plentiful with all kinds of prices. Some growers will have to get a lot of sun to get their lilies in while others have no fear. Bargain sales on violets have helped the sale of other stock on Saturdays, otherwise things would be stagnant. Spring openings in all the large stores has given the florists some good orders for palms and flowering stock, also wild smilax and other decorative stock.

NOTES.

Superintendent Brothers of the city parks resigned owing to ill health and was succeeded by Auditor David Seymour, who has been with the park department for seven years. The appointment was a good one and Mr. Seymour will ably fill the position of superintendent. Frederick P. Knee was appointed auditor. There is a great deal of talk about removing South Park greenhouses but as yet, no place has been selected. The present location never was an ideal one on account of having to cross every railroad in the city to get there and now it is surrounded by the steel plant.

The notice of J. Benson and Fred Stafford opening their store on Upper Main street was quickly followed by the announcement of another store at 354 Main street, opposite the Hotel Iroquois, which will be opened by William Stroh, a large grower of Attica, who has associated himself with his son and Arthur Beyer, who for the past 10 years has been with W. J. Palmer, and has managed the upper store for the past six years. Mr. Beyer is a first class florist and with the large stock of Mr. Stroh, together with the location, the firm should be successful.

H. Keitsch & Son may get an automobile but they will pick it out themselves. An unruly one tried to force its way into their store recently.

Joseph Streit, foreman at Anderson's greenhouse, and Joseph Sangster of the store, are in New York and other cities on an inspection tour.

Geo. McClure & Son have some large contracts for trees and George Jr. has been away for a month getting them on the cars and ready to ship.

Visitor: F. W. O. Schmitz, Prince Bay, Staten Island, N. Y.

BISON.

Lenox, Mass.

The regular meeting of the Horticultural Society was held March 6, President A. Jenkins occupying the chair. George W. Allwood and D. Ferguson were elected active members of the society. The following exhibitions will be held under the auspices of the society: Annuals and perennials July 28 and the fall exhibition October 26-27. Schedules are printed for the same and can be had upon application to the secretary. A. J. Loveless was awarded a diploma for a display of amaryllis flowers, some of them being very rich in color, and also gave a short talk on their culture. The following question was asked, "What is the Cause of Disease in Lilium Harrisii?" A very interesting discussion took place, but no definite conclusion was arrived at. Several instances were cited where large commercial growers had thrown away thousands of diseased plants.

Rose and carnation night will be Saturday, April 3, and it is safe to say that competition in the various classes will be keen, as carnations are grown quite extensively in and around the city. After business is dispensed with there will be a smoker, when members who were not asked to sing at the dinner will have a chance to show their vocal talent.

The annual dinner was held at the Curtis hotel March 4, and was a decided success, about 80 members and friends being present. The night was far from being ideal, as a blizzard was raging at the time, otherwise the attendance would have been much larger. After doing justice to the good things provided by Landlord Curtis, President A. Jenkins spoke on behalf of the society and introduced A. McConnachie as toastmaster for the evening. Thos. J. Grey, in a very humorous speech, spoke on behalf of the Florists' and Gardeners' Club of Boston and the North Shore Horticultural Society, and said that gardeners, as a class, were the biggest set of grafters that he knew. During the course of the evening a telegram was read from A. T. Boddington, New York, regretting his inability to attend and wishing the members a very pleasant time. Other persons contributed to the success of the evening, namely, Mrs. J. Clifford, Mrs. Geo. Mole, W. Glennan, F. Howard, W. Jack and W. D. Curtis. Upon a suggestion from the toastmaster a rising vote of appreciation was accorded W. D. Curtis for the splendid banquet, and we closed with the entire party singing "Auld Lang Syne." The committee, of which E. Jenkins was chairman, is to be congratulated upon the success attending its efforts.

G. H. I.

THE WHILLDIN POTTERY COMPANY
THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

Washington.

CALM AFTER THE STORM.

We have had a week of Lenten tranquillity and following the strenuous days of inauguration week, a period of social quiet has found virtue in many eyes. Some of the hostesses of recent house parties have seized the opportunity to take a rest cure and, in consequence, the retailers have had very little to do, excepting funeral work. Bulbous stock is coming in plentifully and the supply is greater than the demand. Carnations are being disposed of anywhere from 50 to 75 cents per dozen. Roses have taken somewhat of a drop. There are plenty of flowering plants, such as azaleas, lilac, spireas, and others in season.

NOTES.

F. H. Kramer surprised the craft by the announcement of his marriage to Miss Irene Chedel, who has been acting as his cashier. It was a sort of an elopment in an automobile. The Rev. S. R. White of the Rockville Baptist church performed the ceremony. Mr. and Mrs. Kramer returned to the city late in the afternoon, walked in the flower store, and announced their marriage. The employes were dumfounded; they had always looked upon Mr. Kramer as a confirmed bachelor, and his marriage completely took the whole establishment off its feet. Mr. Kramer is still receiving the congratulations of his many friends.

Geo. C. Shaffer and M. Hamner attended the bowling congress at Pittsburg, Pa., and came home reporting a good time and very satisfied with their scores. Mr. Shaffer rolled a total of 538 in three games, Mr. Hamner 500, and J. E. Fields of the Agricultural team 580.

Visitor: I. Rosnosky of Michell's of Philadelphia, Pa.

G. S.

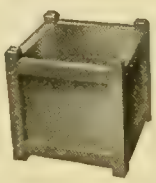
Orange, N. J.

The regular meeting of the New Jersey Floricultural Society was held March 12. The evening was observed as a special carnation night. Among 15 or 20 entries, Victory, Winsor and Lady Bountiful, predominated. The new carnation Mrs. Pfeuffer was exhibited by its originator John L. Pfeuffer of Irvington, N. J. It is a seedling of Prosperity X Floriana of Daybreak shade with a full calyx and very fragrant. Its owner, who was present and spoke, claims its superiority as a commercial variety, a heavy cropper and a free bloomer during the months of December and January.

Henry Hornacker of East Orange showed an exhibit of some well grown Victory receiving a certificate of merit. There was an elaborate display from private estates grown by William Reid, John Dervan, Max Schneider, D. Kindsgrab and John Hayes. Lager & Hurrell of Summit exhibited a collection of orchids among which a hybrid lælia was particularly fine. A paper, prepared by William Lyons, gardener to Robert R. D. Foote of Morristown, was read by the secretary. Mr. Lyons was prevented from coming by sickness in his family. A lively discussion followed the reading of the paper. Among those who contributed to the pleasure of the evening were Chas. McTaggert of Thorburn's and Thomas Grey of Boston, who addressed the gathering. The attraction for next month will be Charles Totty on chrysanthemums.

J. B. D.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design strong and durable Suitable for either outdoor or indoor use. Write for prices.

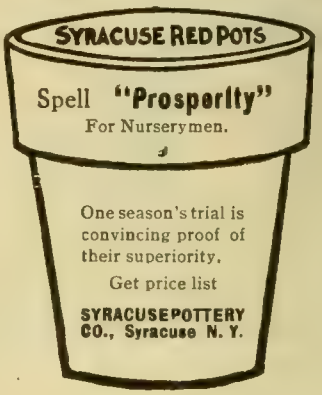
WAGNER PARK CONSERVATORIES, Sidney, Ohio.

GEO. KELLER & SON,
Manufacturers of
Red Pots
Before buying write for prices.
361-363 Herndon St.,
CHICAGO, ILL.

Standard Flower Pots
Porosity and Strength Unsurpassed.
Write for Price
A. F. KOHR,
1521 Leavitt Street, CHICAGO

Florists' Refrigerators
Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.
McCRAY REFRIGERATOR CO.
960 Mill Street, KENDALLVILLE, IND.

DOBBS FERRY, N. Y.—A meeting of the Horticultural Association was held in Odd Fellows hall February 27, at which some very creditable exhibits of roses, carnations, sweet peas, violets, etc., were displayed. The judges, Messrs. Knodel, Lindsay and Riley awarded first prize to J. Holgerson, gardener to Hy Siedenberg, and second to R. Boreham, gardener to the McComb estate, for the best four species of cut flowers. Cultural certificates were awarded to Messrs. Keeling, Lee and Harmes, also to H. T. Kastberg, gardener to the Misses Masters, for single and double violets. The prize for the next meeting will be for the best flowering plant.—J. B.



Standard Flower Pots!
Packed in small crates, easy to handle.

		Price per crate			Price per crate
1500	2-in., in crate,	$4.88	144	6-in., in crate,	$3.16
1500	2¼ "	5.25	120	7 "	4.20
1500	2½ "	6.00	60	8 "	3.00
1000	3 "	5.00	HAND MADE		
800	3½ "	5.80	48	9-in., in crate,	$3.60
500	4 "	4.50	48	10 "	4.80
456	4½ "	5.24	24	11 "	3.60
320	5 "	4.51	24	12 "	4.80
210	5½ "	3.78	12	14 "	4.80
			6	16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
BILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

DECORATING FLOWER POTS
A BUSINESS NEED
Send fifteen cents in stamps and we will mail you a cover, price list and booklet, explaining all about these great covers
EVER READY FLOWER POT COVER CO.,
W. H. Grever, Manager.
146 Hughes Ave., Buffalo, N. Y.

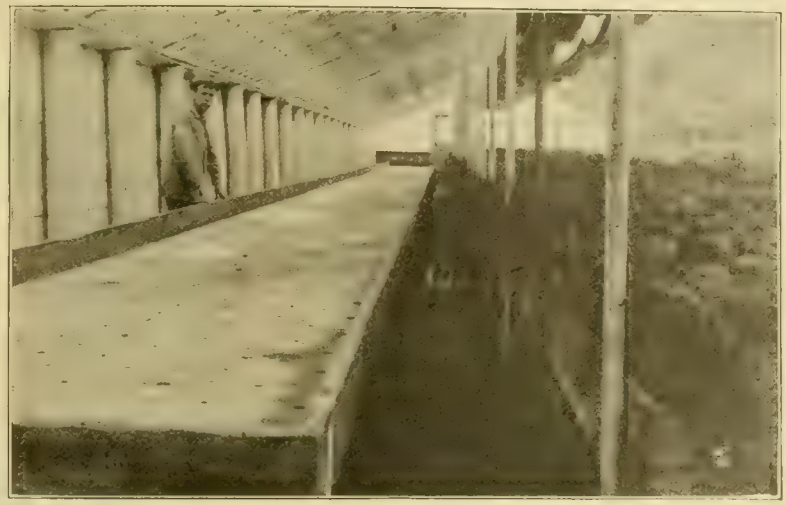
Kramer's Pot Hangers
For Sale by Wholesale Seedsmen, Florists and Supply Dealers.
Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.
I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots
OF FINELY PREPARED CLAY.
Process and catalogue sent on request.
The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

Those Red Pots
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS,
BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y.
HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St.

Witbold Cement Benches

Write us to-day for full instructions how to build them.



(1) Are more reasonable than wood in cost.

(2) Can be constructed as rapidly.

(3) Will last a life time.

(4) Will grow good stock.

It will mean money in your pocket this year and every succeeding year. **DO IT NOW.**

What some practical growers think:

E. H. HUNT, Chicago:
In reference to your Simple Cement Bench Construction will say I have equipped my new plant with them, using the Wittbold Clamp and Leg Moulds and find this construction **simple** and very satisfactory and would recommend them to all growers of cut flowers as a permanent fixture. Respectfully,
PETER NEES 1324 N. Western Avenue, Chicago.

E. H. HUNT, Chicago.
We have grown roses on cement benches principally, Killarney and as far as I could judge all during the season watching them closely I can see no difference in the plants between those grown on cement and wooden benches. ..... I have made plans to put cement benches into another house 22x350 this summer instead of wood
Yours very truly. ROBT. SIMPSON, Clifton, N. J.

Mr. Simpson bought **Wittbold Clamps** and **Leg** Moulds from our Exhibit in Niagara Falls last August and the above letter is in response to our request from him as to how satisfactory the benches were, and how the the stock was doing. Mr. Simpson has installed several styles of cement benches and among them the **Wittbold. Cement is no longer an experiment it is here to stay. Get in the front rank and write for particulars TO-DAY.**

E. H. HUNT, 76-78 Wabash Ave, Chicago.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Chicago.

With the appointment of Allie Zech, an enthusiastic bowler, to the sports and pastimes committee of the Florists' Club, interest in bowling seems to be looking up. Bensinger's alleys, 118 Monroe street, have been secured and as many of the trade as possible are requested to meet there Friday evening of next week at 8 o'clock. The best bowlers developed by these Friday evening meets will go to Cincinnati to contest the honors of the S. A. F. convention match games.

At St. Paul.

The following score shows the complete route of the Mill-City bowlers on March 6. A third battle royal is scheduled in the near future:

ST. PAUL:			
S. D. Dysinger	88	168	109
N. C. Hansen	169	136	145
H. J. Puvogel	119	147	100
John Dill	150	156	157
O. J. Olson	176	172	204
Total	702	779	715
MINNEAPOLIS:			
Theo. Wirth	134	111	106
L. Boeglin	98	107	95
K. Carlson	117	175	153
E. Meyer	159	129	117
C. N. Ruedlinger	87	189	192
Total	595	731	663

At New York.

BOWLING MARCH 8.

Matthews	132	151	137	100
Fenrich	157	171	160	151
Schreiner	120	163	179	164
Manda, Joe	142	182	147	129
Lorentz	100	114	150	113
Burns	160	143		
Shaw	165		146	109
Donaldson			168	168
Tallman			147	149
Whitbeck			204	

BOWLING MARCH 15.

J. A. Manda	157	178	156
Joe Fenrich	150	133	140
John Young	138	122	119
O. V. Zangen	114	117	132
C. W. Scott	196	166	155
Lorentz	185	133	134
A. M. Henshaw	114	88	97

Ever'thing's A-goin'.

When ever'thing's a-goin' like she's got a-goin,' now—
The maple sap a-drippin,' and the buds on ever' bough
A-sort o' reachin' up'ards all a-trimblin', ever' one,
Like 'bout a million brownie fists a-shakin' at the sun,
The children want their shoes off 'fore their breakfast, and the spring
Is here so good and plenty that the old hen has to sing!
When things is goin' this a'way, w'y, that's the sign, you know,
That ever'thing's a-goin' like we like to see her go!

Oh, ever'thing's a-goin' like we like to see her go!
Old winter's up and dusted, with his dratted frost and snow.
The ice is out o' the crick ag'in, the freeze is out the ground,
And you'll see faces thawin', too, ef you'll jes' look around—
The bluebird landin' home ag'in, and glad to git the chance,
'Cause here's where he belongs at; that's a settled circumstance.
And him and Mr. Robin now's a chunin' fer the show.
Oh! ever'thing's a-goin' like we like to see her go!

The sun ain't jes' p'tendin' now—the ba'm is in the breeze—
The trees'll soon be green as grass, and grass as green as trees,
The buds is all jes' eechin', and the dogwood down the run
Is bound to bust out laughin' 'fore another week is done.
The bees is wakin', gapy-like, and fumblin' fer their buzz,
A-thinkin', ever wakefuler, of other days that wuz—
When all the land was orchard blooms and clover, don't you know.
Oh, ever'thing's a-goin' like we like to see her go!

—James Whitcomb Riley.

Yellow Crocuses.

O you plucky fellows,
All in sunshine yellows!
Braving bitter winds and cold,
Waving fearless flags of gold
Welcome, crocus fellows!

Hardship and privation
Sleet and snow for ration,
Leave you laughing, gay and bold,
Grieve you little—faith untold
Mocks at mere privation.

Welcome, comrade fellows,
All in sunshine yellows!
Still your cups of light unfold,
Out of clay your glory mould!
Welcome, plucky fellows!

—Westminster Gazette.

Lent.

Where is the mind we had before
To flash the red light from the shore,
To whoop things up and whoop 'em more?
It's lent.

Where is the purpose that we should
Do everything to make ungood
And jar the whole darn neighborhood?
It's lent.

Where is the yearn before we had
To do the things the good call bad
And make the higher life look sad?
It's lent.

—N. Y. Times.

Indianapolis.

Business during early March was highly satisfactory. Funeral business has been light, but decorations, weddings and good counter trade kept the retailers busy. Roses were equal to the demand, carnations and sweet peas were plentiful. The latter are of very fine quality, white and lavender seem to be the most popular colors. Good smilax is rather scarce and not of very good quality. Killarney is at present undoubtedly the most popular rose, but some of the growers think that it is not equal to Bridesmaid as a producer.

MEETING OF STATE FLORISTS' ASS'N.

The State Florists' Association met March 2, and closed up the business for the carnation show which was given at the German house February 17-18. Each florist who contributed, received his proportion of the remaining treasury. A premium list was made some time ago by the association for the floral exhibition which is given annually at the state fair, by the State Board of Agriculture. The board has accepted this list and the by-laws of the association. Heretofore the association has taken no interest in the matter, but this year a florist will be engaged to take charge of this department. It is up to the florists of Indiana to encourage this annual exhibition and show the State Board of Agriculture that they appreciate the interest taken in the betterment of the florists in general. A committee of three, composed of Adolph Bauer, Homer L. Wiegand and Fred Huckriede was appointed to investigate and try to promote a chrysanthemum show here this fall.

NOTES.

Charles Meyer during his "Violet day" disposed of 30,000 blooms. Single violets are gaining in popularity.

Smith & Young Co. has broken ground for two new houses aggregating 15,000 feet of glass.

Geo. B. Wiegand has returned from his trip in the east, which he enjoyed to the utmost.

Irvin Betermann, the champion five hundred player, has been on the sick list.

Indications are that there will be no floral festival next November.

Alfred Pahud was married to Mrs. Emilie Stecher March 10.

A. Wiegand & Son are planning a new house for foliage plants.

Some local firms are investing heavily in cattleyas this year.

C. L. G.

Pillsbury's Carnation Staple.

"We consider a very good thing."

That is the report of the Judges Peter Olsen, Geo. A. Kuhl and F. L. Washburn at the Illinois State Florists' convention, Springfield.

"They are certainly the best thing that we have ever used to mend split carnations." G.B. Franks.

2000 for $1.00, postpaid.

I. L. PILLSBURY, Florist, **Galesburg, Ill.**

SCOLLAY'S

Plant Sprinkler Putty Bulb.

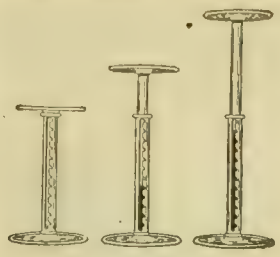
VAUGHAN'S SEED STORE, CHICAGO NEW YORK

Wired Toothpicks

10,000, $1.75; 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers



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Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use **1** part to **75** or **100** parts of water.

B. G. PRATT CO., 50 Church St., New York, U. S. A.

Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

THE H. A. STOOTHOFF CO.,

MOUNT VERNON NEW YORK.

Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. **$1.50 per gallon.** Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,

FLUSHING, N. Y.

"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

Mention the American Florist when writing

Unrivalled for all Purposes.

THOMSON'S

Vine, Plant and Vegetable

MANURE

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES

The result of many years' **Practical Experience.** Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants **Freight paid on quantities.**

Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.

WM. THOMSON & SONS, LTD.,

Tweed Vineyard, Clovenfords, Scotland.

Sold by the leading American seedsmen.

Chicago Notes.

There was an unusually large representation from the trade at the funeral of Mrs. J. F. Kidwell March 12. Among those present were: Frank Oechslin, W. J. Smythe, J. B. Deamud, W. P. Kyle, John Degnan, L. H. Winterson, John Muir, Geo. Wagner and Geo. Walther.

Zech & Mann, are receiving increased shipments of Killarney, Bride, Bridesmaid and Richmond roses. This firm expects to handle a large quantity of very fine lilies for Easter.

Joseph Vacha, 2550 Forty-Seventh place, will erect two new greenhouses, each 22x100 feet. The Foley Mfg. Co., will furnish the material.

C. L. Washburn returned last week from West Baden, Ind., entirely recovered from the grip from which he had been suffering.

Alex Newett, of the Stuppy Floral Co., St. Joseph, Mo., was in the city Monday to attend the funeral of his brother.

Visitors; C. S. Ford, Philadelphia, Pa.; T. T. Bailey, Manitoba, Que.; P. J. Nohos and wife, Milwaukee, Wis.; T. B. Coumandros, St. Paul, Minn.; C. S. Dwight, Janesville, Wis.

Cincinnati.

ROSES MORE PLENTIFUL.

Market conditions have changed some since last report and tea roses are more plentiful. The carnation supply was not quite as large as the week previous but the grower will receive better returns as very few blooms were sacrificed. Single violets had a good call the entire week and lilies of all kinds were good property. Bulbous stock was not so plentiful and fair prices were realized for all that was sold. Green goods of all kinds were in good demand with an ample supply.

NOTES.

We had a fine attendance at the meeting of the Florists' Club Saturday evening, with President J. A. Peterson in the chair. Herbert Greensmith and A. C. Heckman, Jr., were elected to membership. Reports of S. A. F. matters received from the different committees were all favorable and showed everything to be in first class shape and matters progressing nicely. A. M. Miller of Vaughan's Seed Store, Chicago, was present and gave the members a nice little talk. J. W. Rodgers submitted the following resolutions on the death of E. V. Hallock which were unanimously adopted by the society:

Whereas, The Lord had deemed it expedient in His All-wise Providence to call from us our brother craftsman, E. V. Hallock, and

Whereas, We feel deeply grieved to lose a friend so noble and true, and we are reminded also that by his death the horticultural world has lost one of its most noble and ardent friends, therefore, be it

Resolved, That the Cincinnati Florists' Society deeply feel the loss of our friend and brother, and extend their heartfelt sympathy to the family of the deceased, and be it further

Resolved, That a copy of this resolution be mailed to the family of the deceased, and it also be spread upon the minutes of the meeting.

After adjournment C. C. Critchell and Wm. Gardener served lunch, refreshments and cigars to which all present did full justice.

The executive committee of the S. A. F. then made its appearance, being in charge of E. G. Gillette. Speeches were made by President Valentine, Secretary Rudd, George Asmus and Judge Vesey and a pleasant hour was spent.

The executive board of the Florists' Society will meet with the chairmen of the different committees on Saturday evening, March 27, at 8 p. m.

Wm. Speck, who suffered a paralytic stroke last month, is, we are glad to hear, improving and we trust he will soon be himself again.

Joe Maunder of Newport, Ky., is very busy with plant decorations for spring openings.

Visitors: A. M. Miller, Chicago; J. T. Herdegen, Aurora, Ind.; Henry Lodder, Hamilton.

S.

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers.
Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

Vi Fluid

THE IDEAL WINTER SPRAY

SCALE KILLER & FUNGICIDE

POWERFUL CLEANSER AND INVIGORATOR

Mixes Instantly. No Sediment. No clogging. Non-injurious to user

COMPARATIVE TEST WILL PROVE ITS MERITS

Quart, $1.00; Gallon, $3.00

1 gallon makes 100 gallons. Write for descriptive pamphlet and testimony

PROPS. WM. COOPER & NEPHEWS

177 ILLINOIS ST. CHICAGO

Freight prepaid on direct orders. Mention this paper.

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,

OWENSBORO, KY.

Iron Reservoir Vases

AND

Lawn Settees

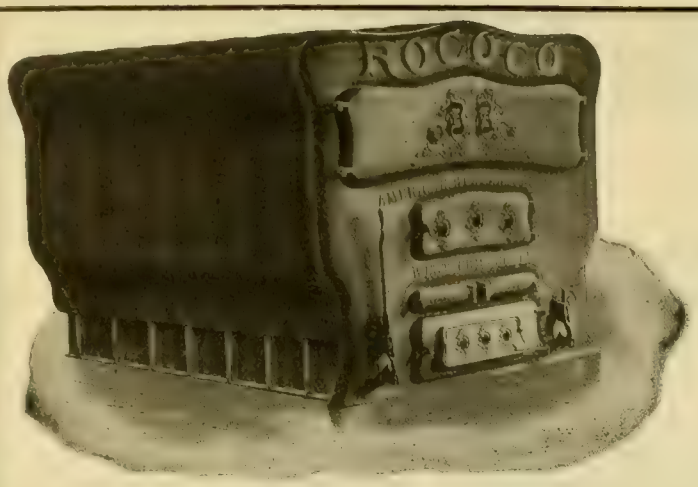
Manufactured by

McDONALD BROS.,

COLUMBUS, O.

The largest manufacturers of these goods in America, Send for catalogue.

Send Advts. Early for Best Service.



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The ROCOCO

Steam or water boiler will do its share.
A boiler built for practical florists.
Boilers Perfect... ...Prices Right.

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WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
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We build a special steel hot water boiler shipped ready for operation. No brick required.
Phones; Main 4361. 4399.

STEEL Return Tubular BOILERS
The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.
JOHNSTON HEATING CO.,
138 East 31st St., NEW YORK.

Glen Cove, N. Y.

The regular monthly meeting of the Nassau County Horticultural Society was held on Wednesday, March 10, President Everett occupied the chair. There was a good attendance of members. A paper was read by J. Elmslie on tree doctoring. Mr. Elmslie spoke of the necessity of caring for young trees. On a vote being taken it was decided that a Horticultural hall should be built in the city. Whenever necessary preliminaries are completed, steps will be taken for the erection of the new hall. Messrs. Jaenicke, Duthie and Garret acted as judges at the monthly exhibition. J. Wilson headed the list in the points competition with a superb lot of Weeber & Don's Snowball cauliflower. The points competition was as follows: G. Wilson, cauliflower, 90; O. Cleres, carnations, 89; H. Gaut, sweet peas, 85; J. Elmslie, carnations, 85; P. Reul, antirrhinums, 85. G. Wilson was awarded a cultural certificate with Beauty of Nice stock. A. Wilson, Summit, N. J., was unanimously elected to active membership.

W. H. MACKENZIE, Sec'y.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.
Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old; 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.
1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler. 60 horse power. 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell. ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers. A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc. some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters.
Complete with all fittings.
We want to move this boiler quick and quote a special price of..... $600.

Boiler Flues. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.
4-72x18 Horizontal tubular boilers, 100 lbs. pressure.
4-72x16 Horizontal tubular boilers, 95 lbs. pressure.
2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.
8-60x16 Horizontal tubular boilers, 100 lbs. pressure.
2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!
Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent.
Ask for Our Latest 500-page Catalogue No. 47. It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets, CHICAGO.

TECUMSEH, MICH.—R. E. Griggs has established a florist's business here, to be known as the Tecumseh Floral Gardens, and is in the market for greenhouse material, plants and supplies.

SWANSEA, MASS.—The greenhouse of Manuel R. Serpa of Rehoboth was destroyed by fire March 1. The cause of the fire is unknown and there was no insurance.

Baltimore.

BUSINESS INACTIVE.

There has been no marked activity in trade; whether this is due to the more rigid observance of Lent, to the general dullness of business, or to the changeable and dreary weather is debatable. The city was, more effectually perhaps than ever since the introduction of the electric telegraph, isolated. Trains ran, if at all, most slowly, all the safety appliances being inoperative. Fortunately, though the snow was heavy and the winds high, the temperature was not very low, or greater suffering might have resulted. Travel was so interrupted on city and suburban cars that little was done by the stores, even some funerals being delayed by the inability to get to the cemeteries. The dull and cloudy weather continues, and is not favorable to the production of fine flowers. Only six days in the month were clear, whilst seven were partly cloudy and 15 were wholly cloudy, the sun being totally obscured.

For the past 10 days weather and business have both been fluctuating. At times the supply of carnations has been excessive and the street venders have had a chance at them, but almost all other flowers, except violets, are coming in in about such quantities as the daily calls absorb. Southern narcissi are plentiful.

FLORISTS' CLUB NOTES.

Following the annual meeting and election of officers at the Florists' Exchange, the Gardeners' and Florists' Club gave a dinner March 8 at the Caswell. The toastmaster, E. A. Seidewitz, introduced the speaker of the evening, Senator J. McCulloh Brown, of Allegany county, president of the State Horticultural Society, who, in his address, invited the members of the club to participate in the State Horticultural exhibition, which will be held at the Fifth Regiment armory next December.

Other members of the organization responded to the toasts as follows: Robert Brown, "Trade Expansion"; Geo. O. Browne, "The Gardener"; Richard Vincent, "European Floral Culture"; J. J. Perry, "The Gardeners' Club"; Geo. Morrison, "The Private Gardener," and Noah Flitton, "The Parks." E. A. Seidewitz then read several humorous telegrams which contained hits at different members of the club. At the meeting which preceded the dinner, reports of the various committees were read, showing that the organization was in a flourishing condition, after which the election of officers for the ensuing year took place. Last year's officers were re-elected as follows:

J. J. Perry, president.
Geo. Morrison, vice president.
F. G. Burger, treasurer.
Noah F. Flitton, corresponding secretary.
George Talbott, financial secretary.
C. M. Wagner, librarian.

The auditing committee, which was appointed by the president, consists of Robert Graham, Chas. Cook, Harry Wagner, Philip Welsh and Harry Quick. Among those who attended the meeting and dinner were J. McCulloh Brown, Albert T. Quick, C. Gregorious, M. Thom, Chas. Klutch, W. G. Lehr, Wm. Christie, I. H. Moss, James H. Boone, Albert Fiedler, Geo. S. Kalb, Geo. L. Seibold, Noah F. Flitton, W. G. Anderson, Geo. Talbott, G. O. Brown, F. G. Burger, J. J. Perry, Geo. Morrison, Robt. Brown, Richard Vincent, E. L. Newton, C. H. Wagner, H. J. Quick, H. Ekas, R. L. Graham and Philip Welsh.

NOTES.

The next year or two will see great advances towards the perfection of our park system, especially in the construction of parkways which will connect into one series the several parks in different sections. Plans have now been perfected and adopted for one which will connect Druid Hill and Gwynn's Falls parks; and the plans have been vised by Olmsted Bros., the landscape engineers. It will be 120 feet wide and connect Druid Hill at Liberty road and the Reistorstown pike with Gwynn's Falls at the Mt. Holly Inn. The opening of Thirty-third street boulevard and the Alemeda has been authorized and with the opening of this new parkway the system from Carroll to Clifton of the Municipal parks will be joined.

The Charles street stores have been showing some fine gardenias in their windows, and the flower seems to be growing in popular estimation. Some of the higher grade department stores are selling imitations of this flower and at a price about the same as the retail florists get for the real article, $1 each.

At the next meeting of the club March 22, the R. Vincent, Jr. & Sons Co. will put on the tables 100 varieties of geranium, illustrating the stock which that enterprising concern has gathered from Britain, Belgium, France and "the isles of the sea."

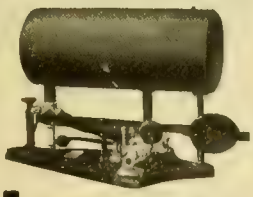
John Cook's store window on N. Charles street a few days ago was brilliant with a huge vase of his last new production, Radiance, a lovely pink rose. Mr. Cook is still confined to his bed with rheumatism, but his physician says his condition is improving.

John Cook is still confined to his bed and is suffering severly from his attack of rheumatism, but the physicians declare the worst of the attack has been passed.

Wm. J. Halliday is confined to his house by a severe spell of lumbago, which does not even permit him to lie down.

S. B.

20 Years in Service



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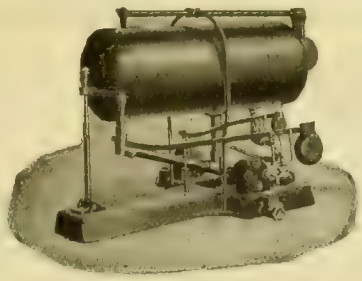
Return Steam Traps

Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.
The Floral Establishment of Mr. George Reinberg, Chicago, Ill., is equipped with **24 Morehead Traps.**
Repeat orders. See the point?
——Write for particulars and a 30-day free trial.——

MOREHEAD MFG. CO., 1043 Grand River Avenue, Detroit, Mich.

"DETROIT" RETURN TRAPS



"Detroit" Return Trap. (Patented)

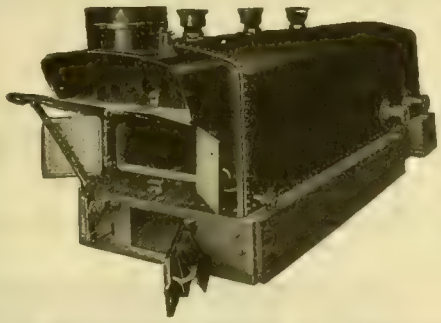
Will keep any Steam heating system free from water making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. DETROIT, MICH.



SEE HOW WELL THEY LIKE ME

150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906.

Ask for list of users and get acquainted with the men who know.

Catalogue and prices on application.

KROESCHELL BROS. CO., 45 Erie St... ...CHICAGO.

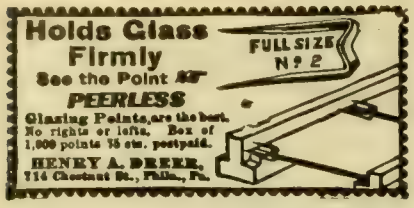
PATENT APPLIED FOR.

Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM. MOLL,
1664 Columbus Rd., CLEVELAND O.



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Never Rust & Last forever.

Are positively the best. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞. **40c** per lb., by mail 16c extra; 7 lbs. for **$2.50** 15 lbs. for **$5.00** by express. For sale by the trade

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STENZEL GLASS CO.
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—Specialists in—
GREENHOUSE GLASS
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE

Lock the door before the horse is stolen, and insure your glass before it is broken.

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WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

VAUGHAN'S PERFECTION POINT
SIZE 2½ SIZE 2
Original Van Reyper's
No rights or lefts. No. 2 single thick, No. 2½ double thick 1000 for **55c**, by mail **70c**, 5000 lots **50c** per 1000 by express,
Vaughan's Seed Store, Chicago, New York

Regina, Sask.

Our long winter may be said to be about over. The last few weeks have been remarkably mild and spring-like and what little snow we have had is fast disappearing. The mild weather has had a good effect on trade, after the long, dull spell, succeeding Christmas and New Years.

Calling on J. T. Stemshorn we found him busy dispensing bunches of violets, lily of the valley, narcissus, roses and carnations to eager buyers. He reports business picking up nicely, and prospects bright. Among his pot plants a fine lot of Lilium Harrisii was noted, besides large quantities of hyacinths, narcissi, Primula obconica and spirea, in bud and bloom.

At Government House conservatory, a fine lot of azaleas are in bloom in the usual varieties. Carnations are also doing well there, especially Lawson.

G. W.

BRAMPTON, ONT.—Frank Lewis, for the last 10 years in the employ of the Dale Estate in the carnation section, leaves at the end of the month for Calgary, whither he goes to accept a position in A. M. Terrill's greenhouses.

Attention!! Glass Buyers!!

WHILE IT LASTS—FIRST COME, FIRST SERVED.

A limited stock of "HIGHEST QUALITY" GREENHOUSE GLASS at the following RECORD BREAKING PRICES:

16x18 A, Double Strength	$2.20	16x24 A, Double Strength	$2.35
16x18 B, " "	2.05	16x24 B, " "	2.20

F. O. B. Chicago, Less 2 per cent. for cash. Mention prices when ordering.
——other sizes at low prices also——

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Insist upon "the best" brand
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Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.
AMERICAN WINDOW GLASS CO.
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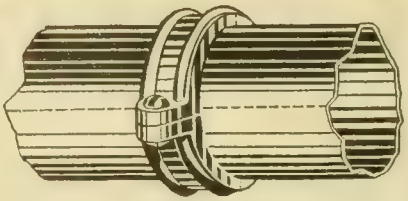
ADDRESS
Sunlight Double-Glass Sash Company
929 East Broadway LOUISVILLE, KY.

The double layer of glass does it
Lets in the light always.
Never has to be covered or uncovered; no boards or mats needed.
Retains the heat, excludes the cold.
Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
Ask for catalog A. It tells all about Sunlight sash.
Special catalog for greenhouse material.

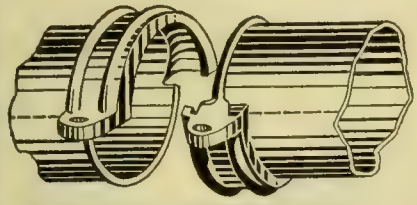
The James H. Rice Co.
IMPORTERS and JOBBERS
GREENHOUSE GLASS
A SPECIALTY.
Window Glass, Paint, Putty, etc.
Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

Stuttle's Patent Pipe Clamp



Especially adapted for joining old boiler tubes now so generally used in hot-water heating of greenhouses. Also it is invaluable for utilizing old cast-iron pipes which otherwise would be consigned to junk pile.

Easy to put on in any position and even more easily removed.
Cheap as the cheapest joint in use and 100 per cent superior.



HENRY STUTTLE,

Inventor and Patentee.

BATAVIA, - ILL.

The Regan Printing House

LARGE RUNS OF

CATALOGUES

OUR SPECIALTY

WRITE FOR FIGURES.

83-91 Plymouth Place, CHICAGO

San Francisco.

TRADE IMPROVING.

The weather, as well as business conditions, have been improving considerably lately, and although we are in the Lenten season almost all the retailers have more work than they have had for a long time. Flowers are plentiful and can be bought at very reasonable prices so everybody is happy. Daffodils, which were quite a drug in the market and could be bought at almost any price, are getting scarcer and the prices are, in consequence, a little more satisfactory to the growers. Other bulbous stock is quite plentiful and is finding a good demand. The violet season is nearly over but there is still more than enough to go around. Since we have had brighter weather the roses and carnations have improved considerably. Lilium Harrisii and L. Formosum have been a good deal grown and are finding a ready sale. Fruit blossoms and wild flowers are adding variety to the stock in the stores; they are always great favorites with the flower-loving public. There is a great scarcity of medium and large decorative plants, especially kentias.

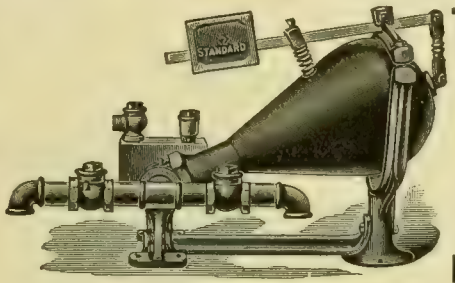
NOTES.

A number of the retailers are getting ready to move back downtown. The Sievers Floral Co. (P. Kelly, manager), has rented a very handsome store at 70 Geary street and will be located there April 1. J. R. Sievers will be in his store on Powell street at the same time and the Art Floral Co. will open up in a few days at 239 Post street. Podesta and Baldochi also intend to move back in the neighborhood of their old location in the near future. E. Matraia is said to have rented a store on Grant avenue near Sutter street.

Visitors: J. Tiplady, representing Currie Bros., Milwaukee, Wis., and Arnold Ringier, representing the W. W. Barnard Co., Chicago.

P.

LENOX, MASS.—The Horticultural Society held a banquet in the Curtis hotel, March 4. Among those present were: James O. Clifford, Geo. A. Mole, G. W. Ferguson, Edward Jenkins, S. W. Tillotson, Frank C. Hagyard and Howard Moat.



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the **Trap, Duplex Gutter,** and **Standard Ventilating Machinery,** mailed free upon application.

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Organ of the French Rosarians.

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Catalogues, Colored Plates,

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Send for Catalogue.

VREDENBURG & CO.,

ROCHESTER, NEW YORK

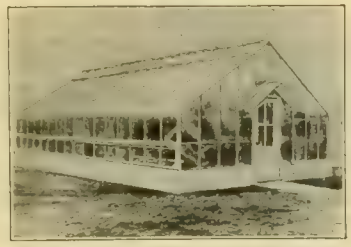
Louisiana Red Cypress

As described by Bassett & Washburn, Chicago.

"Replying to your favor requesting our experience with Pecky Cypress, we will say we have been using this grade of Cypress in our greenhouses and plant benches for the last ten or twelve years and so far have not found any of this wood that has all rotted out. We formerly used Hemlock and Pine, but found that two-inch stock only lasted about four years, while so far we have had no Pecky Cypress rot out in ten or twelve years. We use clear Cypress for all our roof work, ventilators, etc., and it is very satisfactory. We think it is the only kind of lumber for the purpose."

IT IS THE MOST DURABLE WOOD KNOWN. Ask about it at your local lumber yard or write

LOUISIANA RED CYPRESS CO. HIBERNIA BUILDING, **New Orleans, La.**

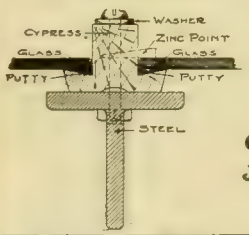


The "T" Bar Curved Eave Greenhouse

Is absolutely Dripless, glass rests on Wood, reducing breakage and condensation, less wood than any other construction, wood all exposed—all steel inside, all wood outside.

Greenhouses of Every Type.

JOHN A. PAYNE,



Greenhouse Designer and Builder,

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Completely Equipped with Up-To-Date Machinery for the MAKING OF MATERIAL FOR

GREENHOUSE CONSTRUCTION

FROM A FULL SUPPLY OF THOROUGHLY SEASONED LUMBER.

Send your sketches to our draughtsmen for completion and suggestion. Permit us to figure your proposed work large or small. We Guarantee Our Prices Will Save You Money.

Foley Ventilating Apparatus is the Best.

Is simple in erecting. Is easiest of operation. It will last a life-time. Its price is the lowest. Will ventilate any size house. Prices and circulars on application.

Our 1908 Catalogue Greenhouse Material sent postpaid on request.

The FOLEY MFG. CO. Western Avenue 25th and 26th Sts. **CHICAGO.**

Use our patent Iron Bench Fittings and Roof Supports.

THE JENNINGS IMPROVED IRON GUTTER.

IMPROVED VAPORIZING PANS
For Tobacco Extracts, etc. Send for Circulars.

DILLER, CASKEY & KEEN,
S. W. Corner Sixth and Berk Streets, PHILADELPHIA.

VENTILATING APPARATUS.

The Pitcher Plant's Pitchers.

It has usually been taken for granted that the pitcher plant (Sarracenia purpurea) catches and digests insects for the nitrogen they contain, just as the sundew, butter-wort and others are known to do. Some experiments which have recently been carried on by Miss Winifred J. Robinson seem to indicate that the chief function of the pitchers is not that of catching insects, but of storing water for the use of the plant, says the American Botanist. While the experiments apparently prove that the pitchers have no fat-digesting or protein-dissolving powers, it has been shown that they are able to reduce sucrose and starch to simple sugars. The author says: "Sarracenia purpurea belongs to the class of plants, which like the bromeliads of the tropics or our northern catch-fly, illustrates a maladoption between plant and animals, for while they serve as traps for insects they are neither harmed nor benefited by them unless the number be very great. In the sphagnum bogs where sarracenia grows, the concentration of salts and nitrogenous matter about its roots is so great as to place them practically under xerophytic conditions. This would tend to render the root system inefficient as a means of water absorption and make the possession of a water-storing organ like the pitchered leaf of great advantage to the plant." The statement that nitrogen is abundant in the habitat of the pitcher plant is also unusual. Most botanical writers state that the insectivorous plants catch insects because of the dearth of nitrogen in the soils they inhabit. It is evident that the last word on this subject has not been said.

They All Read the Florist.

ED. AMERICAN FLORIST:—

We read your paper each week with much interest and appreciation.

HOWCROFT & WATKINS.

London, Eng., February 9, 1909.

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT
76-78 Wabash Ave., CHICAGO

GATES AJAR.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK MARCH 27, 1909** **No. 1086**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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Address all correspondence, subscriptions, etc., American Florist Co., 324 Dearborn St., Chicago.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.

ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20 1909.

Garden and Desert.

My vineyard that is mine I have to keep,
Pruning for fruit the pleasant twigs and leaves.
Tend thou thy cornfield; one day thou shalt reap
In joy thy ripened sheaves.

Or, if thine be an orchard, graft and prop
Food-bearing trees each watered in its place;
Or, if a garden, let it yield for crop
Sweet herbs and herb of grace—

But if my lot be sand, where nothing grows?—
Nay, who hath said it? Tune a thankful psalm;
For, though thy desert bloom not as the rose,
It yet can rear thy palm.

—Christina Rossetti.

THE SPRINGFIELD ROSE INDUSTRY

A paper by Geo. D. Leedle, Springfield O., presented under the title of "Roses as Home Flowers and How to Grow Them," at the annual meeting of the American Rose Society, Buffalo, N. Y., March 17-19 1909.

A Word About the Author.

By way of introductory explanation, lest I should be sized as an upstart in the presence of a body of men so ably representing their chosen profession, permit me to state that upon receipt of the request from Secretary Hammond suggesting that I prepare a paper, I promptly informed him that in spite of the fact that my business associations represent 25 years of experience, I am personally nothing more than a four-year-old. Nevertheless, "the man behind the roots" has been delivering the goods, the publicity department has been delivering the orders, the florists and nurserymen have been delivering the cash, and, on the theory that "he who blows not his horn, the same shall not be blown," I am probably justified in sailing under the flag of an "expert rose grower," by association.

With the whole truth in his possession, Mr. Secretary renewed the invitation, stating that new men were desirable additions, and assigned the topic under which I am now supposed to speak, although a somewhat different line of thought had been in my mind. But no matter, you are familiar with the old idea that "a rose by any other name would smell as sweet," and have probably heard of the preacher who took a text and then "went everywhere preaching the word," and if I should deviate somewhat before getting to the main point you may conclude in your minds that I am not "thornless" and probably belong to "the rambler class."

The previous years of my business experience had been in mercantile and manufacturing pursuits in which commodities are measured by the foot rule or yard stick, the hundredweight or ton, the capacity or the labor saving qualifications; hence, it was rather difficult at first to grasp the idea that a 2-inch pot might contain a 3-inch plant, or vice-versa. Naturally, I had been trained to view most matters from the standpoint of cold commercial considerations, which fact may cause my statements to seem lacking from the viewpoint of the life-long grower of things floral.

Having consummated plans to embark in the rose growing business, I donned a blue apron, behind which I had once served as cook at a Y. M. C. A. oyster supper for the boys, and a pair of congress shoes which had proved useful about a brick yard where I had attempted to make bricks, not only without straw but with limestone pebbles in the clay, and, after the manner of Samuel and Isaiah, prophets of old, said to the foreman, "Here am I," whereupon I was given my first practical job in wrapping rose plants for shipment; later to weeding, grading and moving up. Although at the outset I scarcely knew a rose bush from a gooseberry bush, except by the fruit, I was pronounced a great success at grading, from the fact that I could tell a big plant from a little one better than several of the old hands at the business.

Finally, step by step, I rose to the eminent responsibility of being permitted to make cuttings, interspersed with turns at dumping, potting, etc. I was also allowed to cut the short stem roses in order that I might learn the varieties and at the same time please relatives and friends with buds and blooms by the lapfuls. Little by little the various steps in the propagating and growing of roses in a commercial way have come under my notice, but the necessities of the business have taken me away from the practical part rather more completely than is good for my floral education or physical well being. The question naturally arose, shall the product be marketed locally, or shall a market be created which shall extend from ocean to ocean and from Jamaica to northern Canada? The answer was promptly given.—the latter.

Rosy Propositions.

The attention of Mr. Hammond appears to have been attracted by a booklet issued originally under the title, "Rosy Propositions," and logically it was issued for that purpose. He mentions that it follows somewhat the plan of a dictionary in that the prospective buyer seeking information can readily find what he is looking for, by either color, class,

description or price, the description being aimed to include the principle and distinctive features of each variety. To describe a rose properly was at first a quite difficult task for me as an uninitiated florist, but, by reading the descriptions given in other catalogues (which, by the way, are frequently rather contradictory), talking with a grower or two, and, if possible, taking personal observations, I am usually able to round up a description which will pass muster and have not yet been censured by the old timers.

Mr. Hammond thought he saw some traces of gumption in the make-up of this booklet, but there were certain portions of the original issue which the boys about the greenhouse who were pretty well acquainted with me were accustomed to refer to as hot air, but we never attempted to utilize this product to operate a hot-air engine, however. The wooden label of the florist as a trade mark has seemed to readily attract attention as something distinctive and suggestive, and an original trade-mark kept constantly before the public would be found effective by any grower having a regular product to sell.

Square Deal for Customers.

In dealing with the floral trade in general, it is found that the prime requisite is to inspire confidence; first in ability to understand and to fulfill his particular requirements; second to truthfully represent the size, strength and condition of stock offered; third, to label absolutely true each and every item; fourth, to promptly execute, pack and ship an order, or make known quickly any inability to fill same. In other words, the florist, like any other tradesman, insists upon a square deal as a condition of continued patronage.

As to the popularity of the rose as a home flower, one need but glance over the pages of floral, nursery and seed catalogues to find it in most cases in the forefront, usually on the cover; or, to turn the pages of the leading magazines and other periodicals to find the queen of flowers the most luring incentive toward the forwarding of a cash subscription. In cut flower growing, the amount of glass devoted to roses would probably far exceed that devoted to all other classes of plants and flowers.

Retail Mail Orders.

The retail mail orders are largely written by the women, and there is no other plant or flower so freely and universally prominent in orders as the rose, from which it is apparent that it is first in the choice of woman, and what woman says goes in most families. Even in times of panic, the woman as a rule manages to lay by her little fund for the annual floral order, which, to her credit, is just as much of a necessity as food and clothing.

In Springfield and its suburbs, the annual crops of small rose plants considerably exceeds 4,000,000, and in a season of liberal planting and favorable conditions for propagating, the aggregate would probably approximate 5,000,000. Quite a large percentage of this product is consumed by the concerns issuing mail order catalogues which go to the homes of the people, the remainder going to florists and nurserymen throughout the land for the various purposes of retailing in the market as pot plants, benching for cut blooms, bedding for ornamental purposes and landscape gardening, and for lining out in the nursery row to become field-grown bushes.

Propagation.

To accomplish this result, 400,000 or more young plants from 1½ to 2½-inch pots are planted on the benches in rows five to six inches apart during the period from about January to April, depending upon the ability of the sales department to make room by early shipments of stock. Pretty high temperatures are then maintained, the sunshine being largely depended upon for daytime heat, and from perhaps May to August, the wood is cut as it happens to come into

Typical One-Year-Old Pink Rambler Rose.

just the proper state of ripeness according to the judgment of the grower in charge, the number of successive growths and cuts varying from one to three according to the variety, season and demand for each particular sort. Occasionally, a belated lot of stock plants remains on the benches and propagation in the opposite season is resorted to, but this is only an emergency measure, the preference here being to adhere closely to summer propagation.

The wood is made up into cuttings of from one to a half dozen eyes, according to variety, rarity, condition, abundance, demand, season and various other governing circumstances, usually in the summer months but occasionally the work is prolonged into the fall. The rooting is accomplished in hotbeds and requires from two to six or more weeks according to variety and weather conditions, the percentage of the strike depending largely upon the skill and experience of the grower and his ability to master adverse weather and other conditions, but some percentage of loss is inevitable under the most favorable circumstances.

Potting of the rooted cuttings is the next step, these going into 1½ or 2-inch pots before being set on the benches, watered and carefully shaded for some days until strong enough to endure the direct rays of the sun. During the autumn sunshine, substantial roots and tops are made until the nutriment in the potful of soil is practically exhausted, then a shift is made to a 2 or 2½-inch pot as the case may be, and occasionally to a 3-inch pot by special order. During the winter, the rose houses are run at a quite low temperature, approaching the freezing point for some sorts. By this method, the plants are given a rest during the winter season and are permitted to take a fresh start at the approach of spring.

Summer the Growth Season.

Herein, as held by the rose growing fraternity in this particular locality, lies the value of the "summer grown, winter rested," idea, namely, that summer is the natural season for all things to grow and winter is the natural season for all growing things to rest, consequently, by following this method we are working in harmony with and not contrary to nature herself, and nature is proverbially kind to all who obey her laws.

The own-root method is likewise believed to be in line with nature, being followed exclusively here, and is found in the long run and with the far greater majority of final purchasers to produce the most satisfactory results for all concerned. For a retail catalogue mail order floral concern, the perplexities which would arise from the sending out of grafted or budded rose plants by the millions to amateurs all over the earth would be such as to make the life of the correspondent a burden.

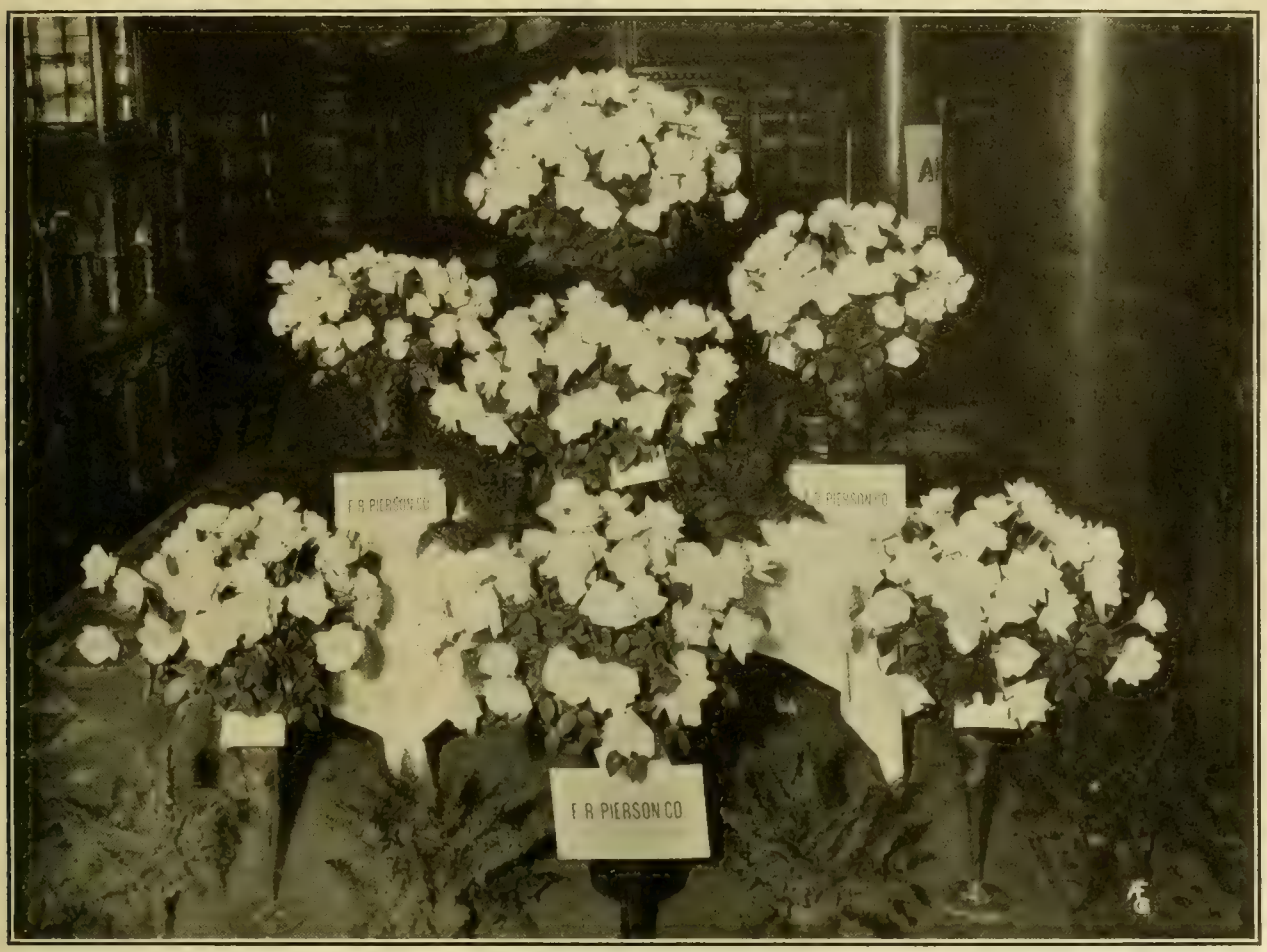
A Word About Grafted Stock.

As to the comparative advantages of grafted stock for certain cut flower sorts, I would not be qualified to speak. While quicker results may be obtained, the observation of the most experienced members of the Springfield Florists' Club through many years leads them to claim with confidence that in the long run, all things considered, the own-root rose plant will outstrip its grafted competitor in the production of cut flowers and is superior for all other purposes. They argue that being "on its own legs," it must necessarily run longer and faster than when tampered with by any artificial process.

In this particular market, the summer propagation idea has also the advantage of bringing the crops into shipping size, strength and condition at just the right times for supplying the various demands. Beginning in January rose plants are wanted for sending by mail and express to the southern states for early planting and this demand works gradually northward to northernmost Canada. About February the retail florists begin to secure a supply to grow on to proper size for market and wagon sales; in March the spring trade in general starts in and continues for some months; the nurseryman follows soon after with his order for young plants for lining out about April, and the late planting and straggling orders continue into May and June. The method and season of propagation herein described provides in due course for all of the various wants mentioned.

Rose Houses for Rose Plants.

It is obvious that the best results may be obtained by growing roses exclusively in houses containing nothing in the way of soft or miscellaneous stock such as may require different temperatures, and it is also generally conceded that the grower who is expected to know the habits of a hundred or two different



F. R. PIERSON CO'S., EXHIBIT OF WHITE KILLARNEY AT THE BUFFALO ROSE SHOW.

sorts of roses on a commercial scale should have little else to occupy his attention. Hence the advantages of concentrating the undivided energies of the working organization to the growing of one particular line as a specialty.

In our community, containing a number of concerns, all of which grow roses to a greater or less extent, the number of varieties being about 450, it will always be inevitable that at times there will be a short crop and a long demand, or vice versa, as to some particular varieties, this being affected by the variations in amount planted, the favorableness of the season for propagating and fluctuations in the demand from year to year. But frequently one grower is long on a variety of which another is short, and in a very commendable spirit there is a disposition among the fraternity to be mutually accommodating in the interchange of stock which makes possible the more complete filling of orders and assists in a practically general clean up of stocks by or before the close of the season.

Order Early.

The buyer of rose plants wishing to secure the best of stock and certain varieties in particular should by all means place his order with a dependable grower several months in advance of the time for shipping; in fact, early winter is the best time, if not earlier, to engage roses for spring delivery. The plants can then be selected, shifted, set aside in cool houses, and brought to the requisite size, strength and condition for delivery at any specified time. Postponement in placing an order is very frequently likely to cause disappointment by reason of certain desired varieties having been sold out and no further supply available until the following season. In ordering rose plants, it is advisable always to state for what particular purpose they are wanted, and briefly the kind of stock expected. The intelligent grower or order clerk will then have a clue to guide the selection of plants in just the condition to make them best adapted to the desired end.

The substitution of a different variety under the label of a variety definitely ordered is a practice not to be tolerated in this present day of floral enlightenment and it is entirely proper for the buyer to insist upon getting every item true to label, the shipper to notify him to such effect if unable to supply the true variety. On orders requiring quick shipment, it is well for the buyer to mention a second or third choice in case of varieties which he may not absolutely require, and this will faciliate the filling of many an order in the rush season.

The cheap collections advertised in the magazines and other publications for premium purposes are a prolific source of the substitution evil and by no means calculated to foster a true knowledge of roses on the part of the amateur. Many a woman or man will proudly exhibit a rose as being of such and such a variety when in reality it may be a radically different sort belonging to another class and possibly an entirely different color. But this appears to be practically irremediable so long as the consuming public retain the bargain counter craze and defer ordering until the rush is on in full blast. At such a time, correspondence with a legion of customers would be an absolute impossibility, the catalogue being presumed to contain all necessary information. One retail mail order catalogue to our knowledge has endeavored to discourage correspondence by mentioning a charge of 10 cents for each written letter in reply to any particular inquiry.

Girl labor is gradually being introduced in the growing, labeling and packing of roses and other plants at the various greenhouses, and by reason of their faithfulness, attentiveness, deftness of hand and aptness to learn floral knowledge, they are conceded to be preferable to boys or young men for many classes of work.

The Question of Stock Plants.

The growers of roses by the own-root summer propagation method are inclined to take issue with the cut flower houses following the method of propagating in the winter from forced and practically exhausted stock. It is argued that it is against the laws of nature to propagate in the non-growing season when such vegetation should naturally be taking a rest just the same as living beings require the rest of night after a day of activity. And it is claimed that stock forced for blooms for a year or two of constant strain must naturally be lacking in the vitality of blood necessacy to make a vigorous and healthy offspring, and that in the long run the quite small plant propagated at the natural time from wood taken from a parent in the

prime of its vigor will win out over its competitor propagated at an unnatural time from constantly forced and exhausted stock.

In other words, it is held that the florist about to plant for cut roses, instead of propagating from his own stock or purchasing, say, 3-inch pot roses from another cut flower house, had better buy and take a new start with fresh and vigorous and naturally grown plants from 2½ or even 2-inch pots. To meet the demands of cut rose houses, local growers have frequently discussed the advisability of attempting to meet the demand for 3-inch stock for planting in May or June, but they are always up against the stubborn fact that the 3-inch pot occupies the same space as three 2-inch pots, and bench room for a large quantity of 3-inch seems never to be available being always in demand either for the 2 or 2½-inch stock or for that which is on the benches for propagating purposes.

No Secrets.

Finally, as to the Springfield method of rose growing, it has in some cases been assumed that this is in the nature of a trade secret, but such is by no means the case. Every department of every greenhouse in this locality is open to the inspection of any and every person practically every day and night of the year, visitors invariably being given a cordial welcome. Nevertheless, the success of the local plant growing industry has been built on years of long and varied experience and the art is not to be learned in a day. Moreover, all natural requisities are at hand, among which are admirably adapted soils, just the right sand, suitable stable manure mingled with straw, a favorable climate, experienced help, central location for shipping, encouragement of one grower to another, and a multitude of other considerations too numerous to mention.

Constant Watchfulness Needed.

From start to finish, the battle against diseases, pests and possible disasters too numerous to mention is something terrifying, and the unceasing vigilance and extreme caution required might best be likened to raising a baby. Among other things, the stock plants are liable to be attacked by grub worms, fungus, green fly, scorching from sun heat by reason of slight delay in watering, while the advisability of disbudding or not and the proper ripening of the wood prior to cutting are problems requiring critical judgment and care; the cuttings in the hotbeds are constantly on a tremble between life and death, being subject to fungus and other attacks and sensitive to momentary changes from cloud to sunshine, from sunshine to storm, and from moist to dry atmospheric conditions, so that happy is the head grower after he lifts a choice lot of rooted cuttings showing a fair or extra good "strike." When finally potted, the young plants are still very tender and a little too much or too little sun or under or over watering may prove fatal, and even after having started fairly on the journey of life their enemies are legion; mildew, black spot, red spider, leaf rollers and a host of other pests are seeking their lives by night and by day.

Occasionally, the proprietor of some distant house buying annually a goodly quantity of roses, says to himself, "go to now,—I will hie myself to this great rose growing center and hire me a man who shall grow roses for me up to the full extent of my requirements and I will then no longer send my order away." But usually, the man who know how, year after year for all varieties, is in some way or other tied fast to the houses in which he has grown up perhaps. But some man is found who either professes or is by some person said to be an all 'round rose grower, and he is secured and placed in charge of the houses of the before mentioned distant buyer.

But, the general outcome of such attempts has been that some one or more of the thousand elements (stated by one of your past essayists to be essential to success, while only one is essential to failure) are found to be missing either in the man or in the locality selected, and it developes that a large portion of the needed roses must still be ordered from the former source. Consequently, we have in various local houses quite a number of "the boys" who have "sown

Wm. Kleinheinz.

President National Association of Gardeners.

their wild oats" as it were by undertaking such a distant job but are glad to have got back home again to live and die amidst old and familiar scenes and take an occasional smile at the attempts of fresh victims of the experiment on one side or the other, and to read a letter now and then from some old chum who would be glad to get back if he were not "stuck" from some cause or other. Moral—Springfield grown, summer propagated, winter rested, own-root roses will invariably save you a lot of money or trouble, or both.

The Question of Variety.

For the commercial rose plant grower, one of the most difficult problems is to determine what varieties to grow and what not to grow and what quantity of each to plant. One season there may be a shortage of a certain variety and the next a surplus, so that it keeps one constantly guessing as to the probable trend of demand for the numerous sorts in more or less popular favor. Even more difficult is it to correctly forecast the rapidity with which a new sort will be taken into favor liberally by the trade, and the matter of buying stock plants at 10 cents to 30 cents, or 50 cents each is somewhat in the nature of a gamble for the average grower having no traveling salesman to personally introduce a new rose at a comparatively high price.

On this subject, the best informed man in America if not in the whole world, in our opinion, is your esteemed member from Indiana who irrepressibly bobs up every few months with not only one new and great thing, but a whole bookful of tempting novelties and late introductions from Europe, and he is ready to prescibe on a moment's notice the very thing which will best meet any long felt or short felt want which you may happen to express, and you pay your money and take your choice. Then, soon after, along comes a young gentleman traveling from another state with some novelty bearing at least a new name, who remarks how surprising it is what a lot of "junk" is unloaded on the growers in this district. But, a few seasons are required to fully test any new rose and it must not only prove a reasonably good grower but a good seller as well to remain permanently in popular favor and commercial demand. Despite the fact that E. G. Hill has a keen eye for business, we view him upon the whole as a philanthropist in the matter of disseminating valuable knowledge and in encouraging greater things in the growing of roses and other beautiful things in general, to say nothing of his own accomplishments in the line of hybridizing. In conclusion, I feel that rather more has been said in this paper than should properly come from a comparative novice, and wish to thank the officers for their invitation and the members present for having patiently listened.

National Ass'n. of Gardeners at New York.

The annual convention and exhibition of the National Association of Gardeners, held at Allaire's hall, Seventeenth street and Third avenue, New York, March 17-18, was a noteworthy and successful event. The judges of exhibits were Chas. H. Totty and Arthur Herrington of Madison, N. J., and Wm. Turner of Oceanic, N. J. The cups won made a fine display. Noteworthy among the prize winners were: Wm. Kleinheinz, Ogontz, Pa., who took the silver cup for carnation seedlings with Dorothy Gordon. Other carnation prizes were won by Wm. Lyons, Morristown, N. J., and James Stewart, Mamaroneck. Mr. Stewart also took a special prize for specimen cyclamens. These plants were remarkable for size and wealth of bloom and it is doubtful if their equals were ever exhibited in this city.

AWARDS.

Four varieties of roses, American Beauty excluded, 12 blooms of each.—James Bell, Garrison, N. Y., first; Wm. Kleinheinz, second

Twelve blooms American Beauty.—Wm. Kleinheinz, first.

Best variety of rose disseminated in 1908, 12 blooms.—Wm. Kleinheinz, first with Mrs. Jardine.

Best specimen orchid.—James Bell, first.

Special prizes were awarded Jos. A. Manda, W. Orange, N. J., for collection of orchids; Arthur Griffin, Newport, R. I., for Gloriosa Rothschildiana; A. Wynne, Hartford, Conn., for stocks and sweet peas; Rickards Bros., New York, for primulas, and Carl Schafer, Tuxedo Park, N. Y.

THE BANQUET.

The banquet on the night of March 17, was a very enjoyable affair. President John Shore of the association presided. A most interesting and instructive address was delivered by Prof. G. T. Powell of Briarscliff Manor, New York. W. E. Maynard and A. F. Faulkner spoke briefly for the press. Other speakers were Wm. Kleinheinz, John T. Withers, W. E. Marshall, James Bell, C. H. Totty and Andrew Wilson. There was a good attendance and the association may be congratulated on the successful outcome

of its arrangements. Officers were elected as follows: Wm. Kleinheinz, Ogontz, Pa., president; Jas. Bell, Garrison, N. Y., vice president; W. E. Maynard, secretary and treasurer. The next place of meeting was fixed for Philadelphia, Pa.

THE RETAIL TRADE

OUR eighth supplement appears with this issue. Retailers are saving them and placing them in a folder where they are immediately available to show customers who are undecided as to the character of a piece of flowers they may need. They thus form a convenient album, worth many times the subscription price of the paper.

"A BRIDE'S NUMBER" is the title of the April issue of the Ladies' Home Journal, with a bride's bouquet of lily of the valley, cattleyas and Adiantum Farleyense on the front cover in colors, tied with white ribbon. On page 23 W. J. Palmer, Buffalo, N. Y., has a series of six illustrations showing the "New Bridal Bouquets" with brief comments under each picture.

Roses and Cypripediums.

SEE SUPPLEMENT WITH THIS ISSUE.

Roses and orchids are not associated as often as they might be. Roses for fragrance and beauty and the quaint outline of many of the orchids, especially cypripediums, form an irresistible combination and one that during the winter and early spring months the average retailer will have no difficulty in arranging. Cypripediums of the insigne varieties are among the most lasting flowers in existence and with care may be kept for several weeks, provided they were fresh and newly opened when cut and not soiled or injured by water, while roses are almost always to be had. In the bunch illustrated Carnot was the variety of rose used, the cypripediums being all varieties of C. insigne.

As has been frequently pointed out in these columns a bunch of flowers, to be successful, must be so arranged that every flower counts, that each one does its part in the make-up, and that a good full bunch results without any suspicion of crowding. A good floral artist will make a finer bunch with a dozen good flowers than the bungler with three dozen and will thus insure not only greater satisfaction to store patrons but a larger profit. The knack of doing this comes natural to some men, others could never learn it. A most successful artist of our acquaintance, no matter how large, in reason, the bunch he is making, always holds the flowers in one hand and adds to them until finished, getting an assistant to place a firm tie just where he holds them, and the bunch is complete. Others will use a spool of tie and in straining at the last will pull the flowers all out of shape, drawing them together where they should be separate and vice versa. This neat handling of flowers is greatly to be desired in a floral artist and should be practiced. The little spot bunch is a telling point with many customers.

DECATUR, ILL.—C. W. Harrold has started a greenhouse on Main street for growing early vegetable plants.

JOHNSTOWN, N. Y.—Thos. Barson has established an up-town office in the Fulton Co.'s building, where orders for flowers are taken.

A PINK FLORAL PARASOL BY CARL OBERHEITMANN.

Carnations, Hydrangeas and Ribbon, All Pink.

Brooklyn, N. Y.

RETAILERS HAVE A GOOD TIME.

The Retail Florists' Association celebrated its first anniversary March 16 by a theater party and dinner. The members of the association, accompanied by their wives and families, occupied 140 seats at the Orpheum and rewarded several of the women performers with huge baskets of flowers in which were pinned neat notes inviting the recipients to participate in the dinner that followed.

After the performance the entire party went to the Cafe Raub on Nevins street, where the balcony had been reserved for them. During the afternoon and evening the members had seen to it that that part of the cafe was suitably decorated. The walls were hung with smilax, palms and potted plants were placed in points of vantage and tables were covered with fresh cut flowers while a handsome bouquet awaited every lady, including the eight lady members of the association. During the dinner several of the performers from the Orpheum who had accepted the invitation to be present entertained with songs and stories.

Among the members who attended were A. L. Miller, D. Y. Mellis, John Fitzsimmons, William Rooney, A. A. Hyatt, S. H. Powell, Edward Reich, Martin Grotewahl, Alexander Wacker, J. V. Phillips, Hugo Jahn, Joseph Mallon, John Mallon, F. E. Muchmore, F. McKee, Chas. Krombach, E. Weir, J. H. and J. Zschorna, J. Wachtel, J. Van Mater, F. G. Van Mater, H. W. Wipperman, Henry Murphy, D. Hollingsworth, J. Dowlen, Jr., and Geo. W. Crawbuck, and the following women members: Miss K. Copley, Mrs. G. I. Laird, Miss E. C. Thinnes, Miss K. Rodman, Miss Burgess, Mrs. F. B. Ross, Mrs. Russell and Mrs. D. Sperwin. The officers of the association are: R. G. Wilson, president; A. Wacker, vice-president; Joseph Mallon, treasurer; W. A. Phillips, secretary, and Joseph James Dowlen, Jr., financial secretary. The dinner committee was composed of Hugo Jahn, chairman; R. G. Wilson, Miss E. C. Thinnes and Mrs. F. B. Ross.

POEHLMANN Bros. Co., Chicago, used manures and fertilizers in their various greenhouse plants to the value of $5,300 during 1908.

SUGGESTIONS FOR PLANT GROWERS.

Easter Lilies.

After this it is only a question of having the plants on time and preventing their coming too early. Plants showing color must go to a cool house and, as the violets are often about past their best now, the plants that are forward may be stood on the violet benches thinly. This will improve the foliage and harden the plants for shipping. As the flowers open go over them regularly and remove the anthers, before these burst and scatter the yellow pollen on the pure white flowers. Plants evidently late must be driven now for all they are worth and at that will not be so good as the former as the foliage will be softer and the flowers of less substance. Another light fumigation may be given just before the flowers commence to open but not after they begin to burst. Any green fly on these must be removed with a damp sponge.

Marguerites.

The plants advancing for flower must have the best of attention now. Usually they are grown in pots of as small a size as it is possible to get good results from and, being strong rooted, they will be getting pot bound and need regular feeding. The water supply will also have to be kept going freely to maintain a vigorous growth and supply nutriment to the flowers that are forming. Any lack of feed or water leads to the loss of the lower leaves and weakness in the flowers, besides rendering the plants more susceptible to insect attacks. Another point that must be watched is to see that the plants have plenty of room all around and, if they have been in the same position for a month or six weeks, probably more room will now be needed. At all times marguerites like a cool airy house; they cannot thrive in heat and moisture. Spread open as advised and with the air rustling the leaves on all possible occasions they will keep healthy, other conditions being right. Any small stock still to be potted must have attention at once. Use a good, loamy soil, with a fair percentage of grit and old cow manure and pot very firmly. These will make good stock for window boxes and bedding out.

Petunias.

Single petunias are among the most easily raised and most generally satisfactory of bedding plants and, unless in a very wet season, are always showy and bright in the beds. The seedlings from the earliest sown batches will be ready for pricking off but there is time to raise another lot which will be ready by June. It is not the forwardest plants and those in flower at planting time that give the best final results. Small sturdy stock in flats or just feeling the sides of 2½-inch pots are better than these. The petunia is not particular as to soil or treatment provided it is not placed in a position away from the light. Give them room from the earliest stages on and the usual treatment for tender annuals and they will be satisfactory. Double petunias, especially the double white, make excellent pot plants for summer display and they may be propagated now by means of the young shoots starting from the old plants. They will root readily in the bench at a temperature of 60° or thereabout, and should be potted on and kept regularly pinched until the 5-inch size is reached, when they may be let go. This plant is naturally of a straggling habit in most varieties but the constant pinching in a young state will ensure shapely, bushy stock.

Two-Year-Old Cyclamens.

No one has more sympathy with the grower who habitually throws out everything that has ceased to be of value, and refuses to cumber up his houses with useless stock than the writer. Nor has anyone more consistently followed this out in practice or recommended it oftener in the press and otherwise. But it is time to call a halt when so many writers advise the throwing out of cyclamens that are less than a year old in many cases for these are valuable property. Where the plants have been neglected, perhaps laid around in the store and lost their foliage and are gone wrong generally then by all means throw them out; they are not worth bothering with. But left over stock, or stock that has been used for cutting and has been well looked after right along will make finer plants for next season than can possibly be grown from spring or autumn sowing. The old plan of drying the plants off and turning them out in a frame or some other place to be roasted by the hot sun has been long enough dead to be forgotten, but its memory is still in the minds of some old-time growers and these are often they that decry keeping stock over.

When the plants have finished flowering let them finish growing as well and then take a short rest, naturally, not forced by withholding water and baking them in the sun. After a few weeks, signs of new leaves will appear and then the plants should be turned out of their pots and a good part of the old soil removed. It is better to be a little in advance of their starting than to wait until they have made much growth, as, with the new growth, comes new root activity and this will give the plants a start in their new quarters. Some growers like to repot their plants into a smaller size and grow them on in pots; others plant them in a prepared frame and either way is good provided the requisite details are properly carried out. We prefer the frame method, but only because it is less trouble, and, in September or early October, pot the plants into their flowering size. The summer treatment in either case consists simply of keeping the plants growing gently right along and to do this moderately heavy shading, plenty of air and as much atmospheric moisture as can be kept up during the hot days are all that are necessary. When these plants are potted in fall and go to the greenhouse the crowns are just choked with flower buds and they have grand foliage, far before spring sown plants and, usually, better than those sown in the previous August. But after the second season sell them or throw them out; two years is about the limit of their usefulness.

Hydrangeas.

The flowers on the plants intended for Easter will now be almost fully developed and removal to a cool house to finish is advisable. The advantage now of an early start will be apparent as those plants that were late and had to be hastened at the finish will not be nearly as good in color. In finishing the plants the roots will have to be somewhat liberally fed as there is a big strain upon them in carrying such immense heads of flowers from such small pots as are generally used. There are usually a number of flowerless shoots among the flowering ones and these should be taken off now and rooted, if it is desired to grow on stock at home for next season. Root them at once in a temperature of 60° and get them potted as soon as well rooted. Grow them on fairly cool for a time, pinching the stronger ones to induce them to bush out and allowing the weaker ones to continue on single stems. Many growers prefer to purchase imported plants in winter rather than grow on their own stock, but it is very little trouble

EXTERIOR OF WHOLESALE STORE OF CHAS. MILLANG, NEW YORK.

to grow the plants and stock can be obtained from the plants without in any way injuring them for sale. After Easter, or rather after it can be seen which plants are likely to be in for Easter, it is best not to hurry the remainder, unless they are needed for some specific date. Let them come along naturally and they will be all the better for it, though, of course, the amount of room that will be at command may make it necessary to get the plants finished and out of the way as soon as possible.

Pot-Grown Annuals.

Where a retailer has glass in which to grow his stock and has room to spare, a few annuals grown in pots often prove a success from a financial point of view. They are very little trouble to grow, and are showy and sell freely when well done. Asters, stocks, balsams and even mignonette are all useful and showy and flower over a long season. After the seedlings have been pricked out once on a bench to harden and spread out they may be potted in the 5-inch size at once, and stand pot thick on a bench or in a frame, watering and an occasional light fumigation being the only attention necessary until they are ready to go outside into plant protectors when they will have to go farther apart. Good bright colors and white in the asters, stocks and balsoms are the readiest sellers. Mignonette is a little more trouble to grow, but usually sells well. Rhodanthes and several other "everlastings" are also suitable for this kind of culture and the old Browallia elata is of unusual color and habit. There are, in short, quite a number of easily grown, showy annuals that are different to what is usually grown and should prove profitable if their culture was gone about systematically.

Spireas.

While no plants are more easily grown than the spireas (astilbe), of such varieties as the old Japonica, Queen Alexandra, Gladstone and others, yet they are often spoiled for want of room while growing. It is folly to start more plants than can be taken care of until they are finished. The specimens draw up one sided and, no matter how much room they are given later, they never regain that symmetrical form so desirable in market plants. Owing to the small pots these are grown in, very liberal feeding and watering are necessary and, toward the finishing stage, it is best to keep the plants standing in saucers to insure the roots keeping moist. It is surprising how soon such plants suffer under the influence of sun and air, and it is practically impossible to keep them moist with the ordinary watering. These spireas are clean growing, healthy plants seldom attacked by insects if given ordinarily good treatment. Green fly sometimes appears on the young leaves but fumigating is seldom necessary and should not be practiced if it can be avoided as, in the earlier stages, the foliage is very tender and the tips once damaged never recover and have to be removed. Plants that have been pushed for Easter must be gradually brought into a cooler and more airy house before being exposed for sale.

FAR ROCKAWAY, N. Y.—John F. Marsden is building a new greenhouse larger than any in his present plant.

HINSDALE, ILL.—Henry Rohmer has purchased an extensive greenhouse business at Morris. Associated with him is Ivan Krohn, a former resident, and the two young men should make good.

WITH THE GROWERS

Easter Plants at Philadelphia.

An inspection of the stock of plants offered this season for the Easter trade by the growers of Philadelphia, shows that they have made great preparations and fully expect record breaking sales, or at least, in amount equal that of any previous year. There are few, if any novelties, although the general line of popular plants seem to be done very well and the cream of the stock is certainly the equal of any ever offered in this market.

INTERIOR OF CHAS. MILLANG'S STORE, NEW YORK.

Mr. Millang is in the Right Foreground.

THE ROBERT CRAIG CO.

One of the largest growers is the Robert Craig Co. whose establishment at Forty-ninth and Market streets contains a large assortment of very well grown stock, which seems just right in point of time, a very important feature to be considered by the grower, who is certainly to be congratulated when such a record is made. The features here are rambler roses, azaleas and bougainvilleas. Of the roses Tausendschon, which sold so well last season, is seen in quantity and will without doubt be a leader. Lady Gay and Dorothy Perkins are also offered in fine specimens. When well flowered, no Easter plant sells as quickly to discriminating customers as do these. A house of well budded crimson together with another of hybrids have a very classy look. There are several large houses filled entirely with azaleas, the best Easter sorts, ranging from small basket plants up to specimens and pyramid trained plants that are always in demand when well flowered. The specimen bougainvilleas are gorgeous in their cloud of blossoms and should be among the first of the articles crossed off the list as all sold. A house of Spirea Gladstone shows the plants in splendid form being full of green spikes which should be just right for the market. There is also a block of S. Queen Alexandra, the pink variety. The houses of lilies bear testimony to the fame of Mr. Craig as a grower of this plant. Here, as elsewhere, a large percentage of the stock had to be thrown out on account of the worthless bulbs that seem to find their way into the importations of Japanese stock that is annually sent to this country.

A large block of rhododendrons, in fact several of them, are well budded and contain the best varieties. There is a little section of Pink Pearl, the aristocrat of the family. A house of hydrangeas, every shoot carrying a head of flowers makes a beautiful display. Daisies are also a feature; there are marguerites, and the double Queen Alexandra and the new pink sport of the same. Lily of the valley in pots is an addition to the assortment and very popular with nearly all buyers. There are quantities of foliage plants, crotons in very large assortment, dracænas in variety, all the standard ferns of the Boston type, Todeaoides, Amerpohli, Whitmani, Scotti, pandanuses and Ficus pandurata. The latter is only in large sizes as the great demand for this plant the past season has taken all of the medium grade. It is certainly a great plant as grown here. Mr. Craig says that orders are coming in from all directions and that he anticipates a great Easter.

WM. K. HARRIS.

One of the show places at this time is that of the veteran grower Wm. K. Harris. Very phlegmatic indeed must be the individual who, after going from house to house of this large establishment, is not filled with pride that men who can accomplish so much exist today and are raising the standard of the business by such lavish display of magnificently flowered stock. Azaleas are the feature; never before has Mr. Harris offered such a superb stock or in such variety. All the popular sorts are here, in sizes ranging from small stock for basket work to the largest specimen bush and pyramid forms. The dwarf Japanese, as well as the gorgeous Ghent varieties, with their wealth of yellow blossoms, all make this azalea display one of the

best in the country. Rhododendrons are also offered in quantity, many in extra sizes being seen. There are several houses of hydrangeas, well colored, blue flowered stock being a specialty.

A house of genistas, another of deutzias well budded and which is a specialty of M. Mills, the foreman, who by the way, is an enthusiast of the first water, an optimist who dreams ideas and then carries them out. Last week he dreamed he was Irish and sent out over 70,000 shamrocks. This week the old sod is covered with hydrangeas and azaleas, all to be turned into hard American dollars in the next two weeks. Another dream, and the barren waste will be covered with pot roses which later give room to ferns, foliage plants and chrysanthemums, which fill the houses to overflowing for the fall trade, which this enthusiastic gentleman says will be larger than ever. There is in addition a house of gardenias in pots full of buds and flowers. Another of spireas, two of Easter lilies, fine stock, two of Crimson and Baby Rambler roses exceptionally well budded and foliage plants galore. Very striking is the white maple, also the variegated bougainvillea and we must not forget the flowering plants which made Mr. Harris famous years ago. Pandanus Veitchii fills a house and, of the Boston family, particularly Scotti, and the new Harris sport of the old Boston there are fine specimens in every section.

K.

safely and was very salable." An order was being packed to go to Mexico, which when I spoke of the distance brought out the answer that this was a regular customer who never had found fault with the way the goods arrived and that he had customers all over the United States and up into Canada. His invariable practice is, cash in advance, which, he says, enables him to give the lowest prices as there is no percentage to add on for bad debts.

It is wonderful to see the amount of good stock on hand when one considers the size of the place, but it is explained in the fact that nothing is neglected, Certain lines of plants are grown from which Mr. Aschmann does not deviate; his stock of azaleas, spireas, hydrangeas, lilies, etc., are kept up to the top notch of perfection by careful cultivation. Of those imported personal selection in Europe enables him to get just the best the market affords in shapely, bushy plants and varieties true to name and at the bottom cash prices. Most of the grades offered are in medium sizes for which there is a large demand. His azaleas as seen are remarkably well budded and clothed with foliage, giving them a luxurious appearance that makes them sell on sight. Van der Cruyssen, Vervæniana, Bernard Andreas Alba, Niobe, Appollo and Simon Mardner, are the principal sorts. There are several houses of these which seem to be just right in point of time. A house of Spirea Gladstone is heavy with its green spikes coming up from masses of foliage. A house of hydrangeas was just beginning to show color; they were shapely plants well set with buds. Several houses of lilies looked very promising but many had to be thrown out. The best price had been paid for good bulbs but a great percentage had developed into the large, broad leaved variety that does not perfect its buds and has to be thrown out after the buds have developed and failed. It is a great loss to the grower both in the original outlay and the after room taken up, that might be used for a profitable crop if the failure could only be foreseen. Primula obconica, from which the bloom had been pinched, was coming in full flower, there being a good demand for this plant for Easter when it is well covered with bloom. A house of cinerarias was well worth seeing; many of the specimens would win prizes at a horticultural show. The flowers were large and the foliage perfect.

Outside, hyacinths, tulips and daffodils were seen by the thousand just uncovered. There is a great demand for this class of stock from those having a trade for medium priced plants. Araucarias, a specialty here, are seen in quantity, splendid symmetrical plants from last season's importation. About June 1, 10,000 araucarias in variety arrive and these together with the importations of kentias coming in at the same time, fill the houses and are grown on for the fall and winter sales. The spring season is given to bedding plants, geraniums, begonias of the Vernon type, Salvia Bonfire, etc. Moon vines are also grown here in quantity. Over 10,000 moon vines are sent out each season and other plants are also handled in similarly large lots. At present these stocks are in crowded quarters on hanging shelves and other available parts of the houses awaiting the removal of the Easter plants. This constant utilization of room and quick following of seasonable crops is one of the keys to Mr. Aschmann's success; the other is his ability to convey to buyers all over the country through the medium of the trade press, the bargains he at all times is able to offer them. He is a great believer in printer's ink and while many would be appalled at his advertising bills, he simply smiles, makes out a check and sends out another batch of his uniquely worded "ads" minutely describing his stock and its tempting prices.

ROBERT KIFT.

ESTABLISHMENT OF GODFREY ASCHMANN, PHILADELPHIA, PA.
Interior View of one of the Araucaria Houses.

Godfrey Aschmann, Philadelphia, Pa.

The establishment of Godfrey Aschmann, 1012 Ontario street, Philadelphia, is unique in many respects. It is the finest arranged of the smaller places I know of, or have had the pleasure to visit. In this establishment every nook and corner comes daily under the eye of the proprietor or one of his superintendents, his sons, who have grown up with the business and know every little detail so that in its most vital parts, this plant growing machine is perfect. It is in one respect a mail order business as nine-tenths of the orders are brought by Uncle Sam. A batch opened while I was present contained good sized orders mainly for Easter delivery. The postcripts on several were pointed to with pride, they ran "Hope you do as well as last year when goods were most satisfactory and arrived in fine shape." Another, "Duplicate last year's order and add, etc. Stock of last season arrived

ESTABLISHMENT OF GODFREY ASCHMANN, PHILADELPHIA, PA.
Partial Exterior View of the Greenhouses.

To Be Done Now.

IN THE GREENHOUSES.

See there is no possibility of dust reaching the flowers in any room, shed or house where Easter lilies are placed to hold them back.

After dull spells keep a bright look out for the sun. Sudden bursts injure tender, growing stock unless shading is at once applied.

See that no chance insects remain on old stock plants from which cuttings are being taken or probably they will soon be found on the young plants.

Start caladiums of the fancy leaved varieties in boxes or flats with a little light soil before potting.

Pot pelargoniums very firmly and use a fairly rich soil. A little bone meal or a few rough bones over the drainage hole is a help.

Obtain the necessary supplies of seed of Asparagus plumosus nanus, as there is no better time for sowing for quick germination.

Push on with violet propagating. The young divisions start to root anywhere now and should be set going on their own account so as not to disturb the young roots later.

A good mulch of cow manure will be of great assistance to the rose benches now both as a feeding medium and for keeping the sun out of the soil.

OUTDOORS.

Avoid sowing seeds too deeply; the upper inch or two of soil is warmer and better aerated than that lower down. Draw flat, wide drills rather than narrow, deep ones.

Rose planting is in order just as soon as it is possible to get the surface soil in good condition for working.

Plant out handlight or frame cauliflowers on well prepared borders made fairly rich. Leaving them in the frames too long often leads to "buttoning" or premature forming of the heads.

Prepare the quarters for hardy annuals with especial care and commence sowing as soon as the ground is in good condition.

Where any fruit tree pruning has to be done on land that is to be cropped this season get it finished and all prunings gathered and burned at once.

Plant the necessary hardy vines or climbers to newly erected verandas, porches, pergolas, etc., or to cover dead trees and unsightly places.

Never allow manure to lay and heat in loose, open piles. Run a team over it to consolidate it and keep in the heat and ammonia.

Push on with all repairs to walks and roads and other work that can be done in bad weather so that all energies can be bent on the spring work.

Twenty Years Ago.

MARCH, 1889.

The araucaria was beginning to become popular among eastern florists.

A memorial, largely signed, was presented to congress asking that a duty of 30 per cent be placed upon all imported plants.

The beautiful Kalanchoe carnea was among the novelties and was figured in the AMERICAN FLORIST.

"American Beauty is blooming every day and will produce more money than any other hybrid rose under cultivation" said a well known Boston rose grower.

Cutting lilac branches from the open and placing them in the greenhouse under the stages in water was recommended as a good method of getting cut flowers.

Carnation Germania, a yellow variety easily raised from seed, was among the novelties.

Grace Wilder was the most popular pink carnation.

Large numbers of florists went on record as pledging themselves to buy nothing but "standard" flower pots in future.

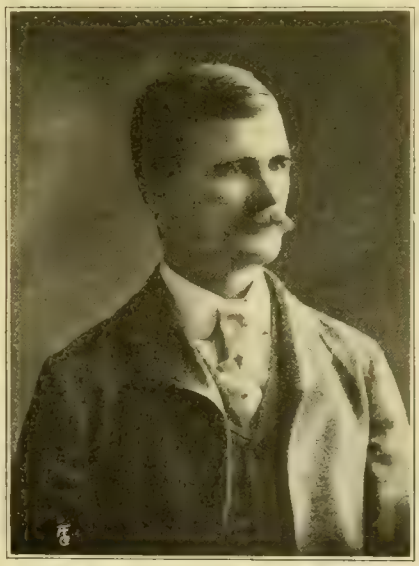
OBITUARY.

Mrs. M. C. Hauswirth.

Mrs. M. C. Hauswirth (nee Tolnot) widow of the late P. J. Hauswirth and who, with her son, J. E., succeeded him in the conduct of the business in the Auditorium Annex, Chicago, passed away

The Late Mrs. M. C. Hauswirth.
And Her First Grandson.

after an operation for appendicitis Friday night, March 19. A woman of many admirable and lovable qualities, she will be sadly missed by a large circle of personal friends. She was born in Germany January 5, 1864, and while still



The Late George P. Esch.

a babe was brought to this country by her father and mother. Twenty-seven years ago she was married to the late Mr. Hauswirth at the same address, 146 Clybourne avenue, from which she was finally carried to her last resting place in Rose Hill cemetery. Funeral services were conducted both at her late residence and at the grave by Rev. Father Craig with the impressive ceremonies of the Catholic church. She is survived by her son, who has with her had charge of the business, and also by a daughter Elsa, now Mrs. W. F. Hoyt. Two grandchildren also survive, Maybel Hauswirth and Marie Hoyt. The boy shown in the accompanying illustration was her first grandson, who died still a baby in the spring of 1906. Many elaborate floral pieces were sent by numerous friends in and beyond the city, among the latter being W. F. Kasting, Buffalo, N. Y.; F. H. Traendly, New York; C. C. Pollworth, Milwaukee, Wis.; P. J. Breitmeyer, Detroit, Mich.; J. A. Valentine, Denver, Colo.; Otto Koenig and Fred Meinhardt, both of St. Louis, Mo., and H. E. Philpott, Winnipeg, Manitoba.

Mrs. Hauswirth's death came as a shock to her many friends throughout the country, as very few were aware of her serious illness, which was only of a few days' duration. Her uncomplaining and self-sacrificing character was was well shown in the fact that she had suffered several previous attacks of appendicitis without reference to them. Hosts of friends swarmed to her funeral from all parts of the city, testifying to the esteem in which she was held by all classes of the community. President Valentine of the Society of American Florists attended in person and C. C. Pollworth and wife, Milwaukee, Wis., attended the services. Mrs. Hauswirth was prominently identified with the Ladies' Society of American Florists and a regular attendant at its gatherings. No woman was better known to or more universally beloved by the trade throughout the country and her pleasant smile and cheering word will be greatly missed by all who knew her.

George P. Esch.

George P. Esch, a well known retailer died at his home 3729 Third avenue (Bronx borough), New York, on the morning of March 18, aged 41. Death was caused by a complication of diseases. Over a year ago he had a serious illness from which he never quite recovered. Mr. Esch was born and reared in the Bronx, his father having formerly been a grower in that section of the city in the years before real estate values had reached the high figures that now prevail. The place was once noted for the large quantities of pansies and other plants, grown in frames. For a number of years George had been in business for himself at the Third avenue address and being an energetic worker had built up a good business. It is said by business acquaintances that his first sickness was brought on by overwork. By the wholesale dealers with whom he had business dealings, he was very highly esteemed for his honesty and integrity of character. He is survived by a widow, May Hohmann, and two young daughters, aged 11 and 7 years, respectively. The funeral was held from the family home on Sunday, March 20, interment being in Woodlawn cemetery.

Ernest Weber.

Ernest Weber, 2386 Lincoln avenue, Chicago, died Tuesday afternoon, March 23, of erysipelas after a very brief illness, aged 48 years. He was born in Wurtemburg, Germany, and came to America about 25 years ago, settling in Chicago. He worked in the grenhouses of various growers of Bowmanville, Evanston and surrounding territory until he and his brother Fred went into business for themselves at the above address in what were known as the Grossman greenhouses. For the past four years Ernest Weber has conducted this place alone, growing roses, carnations, chrysanthemums and making something of a specialty of Easter lilies. An invalid wife survives him, but no children. The funeral will be at 2 o'clock p. m., Thursday, March 25, from the residence to Graceland cemetery.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50. Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York.

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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F. R. PIERSON explained tariff matters very clearly in a brief address at the banquet tendered the members of the American Rose Society by the Buffalo Florists' Club March 18, so far as they concern florists, seedsmen and nurserymen. The work of the tariff committees representing the three national trade organizations at the joint meeting held at Buffalo on the same day was summarized in our issue of March 20, page 378.

TEXAS reports dull trade generally in horticultural lines on account of the hard times. Hope is now based on good summer crops to bring business back.

MRS. WM. SCOTT, Buffalo, N. Y., writes requesting us to express her thankfulness and appreciation to all those who in any way interested themselves in the Scott memorial.

WITH thousands of rose plants coming on for Easter in the greenhouses east and west, it is surely a sign of something wrong when not a single plant could be produced at the great annual exhibition of our national rose society in Buffalo, N. Y., a central location for all the leading growers of rose plants in pots, tubs, etc.

American Carnation Society.

CARNATION REGISTERED.

By Berterman Bros. Co., Indianapolis, Ind.—James Whitcomb Riley, color, clear golden yellow; parentage, Lawson and unknown yellow seedling; size, three to 3½ inches; habit like Lawson but with longer stems.

ALBERT M. HERR, Sec'y.

Tariff Committees Meet.

According to arrangement, the committees of the Society of American Florists, American Seed Trade Association and American Association of Nurserymen met in Buffalo at the Iroquois hotel to compare notes as to the interests that each one had in common. The Society of American Florists was represented by F. R. Pierson, J. D. Eisele and Benj. Hammond; the seed trade association by J. C. Vaughan and Kirby B. White, and the nurserymen by Chas. J. Brown, Irving Rouse, Wm. C. Barry, J. H. Dayton and Wm. Pitkin.

After the conference, lasting three and one-half hours, the following resolution was adopted and signed for the three associations and this resolution was to be forwarded and used as far as possible with congress to secure the desired end, that is, to abolish ad valorem duties and make them specific.

We, the members of the American Seed Trade Association, the American Association of Nurserymen, and the Society of American Florists, as represented by our duly authorized committees, and speaking for these three great industries (practically all of the commercial horticultural interests of the United States) unanimously agree upon the following resolution:

Whereas, There is now pending in the national congress a tariff measure, known as the Payne bill; and,

Whereas, This bill may, without prejudice to the welfare of the public, but, on the contrary, to the great economy of customs administration, be so framed as to relieve all horticultural importers, government officials, etc., of the insuperable difficulties in the way of a fair and equitable administration of any excise upon this class of imports, based on the ad valorem principle;

Now, therefore, be it resolved, That, collectively and individually, we appeal to the congress to make all duties upon seeds, nursery stock, bulbs, etc., whatever revenue they may be intended to produce, or whatever interests they may protect, upon a specific basis.

Buffalo, N. Y., March 18, 1909.

J. C. VAUGHAN,
For American Seed Trade Association.
S. H. DAYTON,
For American Association of Nurserymen.
F. R. PIERSON,
For Society of American Florists.
BENJAMIN HAMMOND, Sec'y.

Society of American Florists.

MID-LENT MEETING OF EXECUTIVE BOARD.

Pursuant to the call of President Valentine the regular mid-Lent meeting of the executive board was held at the Sinton hotel, Cincinnati, O., March 13, 15 and 16. Those in attendance were President Valentine, Messrs. Traendly, Vesey, Gillett, Dailledouze, Asmus and Rudd. The usual routine business was transacted, including the adoption of a programme for the annual convention next August.

A protest against the charges for space at the late trade exhibition at Niagara Falls was received and after careful consideration of the matter the following resolution was adopted: "In view of the fact that it is not shown that the parties protesting were charged on any different basis than many other exhibitors who have paid their bills without protest, the board cannot see how in justice to the other exhibitors any rebate can be made in the special cases in question." In view of the dissatisfaction at the late trade exhibition and of the constant friction between exhibitors and managers in years past, it was decided that for the next exhibition the charges for space would be largely reduced, and in consideration of that reduction the exhibitors would be required to furnish their own tables and cloth covering for them.

The question of rules for the exhibition was referred to a special committee with instructions to prepare and present at a later session a thorough revision of them.

The report of the treasurer and the financial report of the secretary for the year 1908, and also supplemental reports covering the months of January and February were received. The financial reports of the secretary were presented as approved and endorsed by a firm of public accountants, in accordance with a resolution adopted at the meeting of 1908. These reports were submitted, together with the vouchers, to a committee consisting of Messrs. Traendly and Vesey and were examined by them and reported correct, and were then received by the board.

A recommendation from the society for the election of an honorary member was considered and it was decided that as there was no specific provision for the election of an honorary member in the by-laws, it was inexpedient to authorize such action.

It being considered that the presidential addresses in the past have not been properly acted upon and that many important recommendations have failed of attention, the president was requested to appoint a committee in advance of the convention and to submit to the members of this committee copies of his address, and that the committee be instructed to make a special report on the address and its recommendations, and some time to be specifically set aside in the programme for the general discussion of the address and its report.

A proposed amendment increasing the fee for life membership from $25.00 to $50.00 was received and ordered printed in the programme for action at the next convention. A request from the Cincinnati Florists' Club that they be allowed to issue tickets and collect admission from the general public on Thursday in place of receiving any portion of the proceeds of the trade exhibition otherwise, was granted.

It was decided that all interest on the society's funds, both general and permanent, collected during the year 1908 should be transferred to the permanent fund. In connection with the committee of the local club, the board examined the halls submitted for the trade exhibition and the meetings, namely, two floors in the music hall for the trade exhibition and the Odeon hall for the meetings, and accepted them. The usual appropriations were made for the year.

The secretary was authorized to deposit copies of the old reports of the society now on hand with various experiment stations, libraries and public institutions willing to accept and care for them, when it would appear that such deposit would render them available to the public and advance the general interests of horticulture. The treasurer's report showed that the permanent fund now amounted to over $6,000 and it was deemed that steps, looking to the permanent investment of the same be taken and a committee consisting of Treasurer Beatty and Messrs. Vesey and Dailledouze was appointed to make such investment.

The following resolution to the memory of the late Edward V. Hallock was received and adopted:

"To the memory of Edward V. Hallock.

"We, the members of the executive committee of the Society of American Florists and Ornamental Horticulturists, in session assembled have no words at our command that will express our sorrow for the taking from our midst of our fellow worker and beloved friend, E. V. Hallock. We desire to extend to his family our heartfelt sympathy. He was a good man and true, honorable and conscientious and loved by all who knew him. Peace to his ashes, not our, but Thy will be done.

"Therefore, Be it resolved that these few lines be spread upon the minutes and a copy be forwarded to the bereaved family."

The exhibition rules committee reported that a proper revision of the rules would require very careful consideration and would take more time than was available. The committee was therefore given power to act in the matter at a later date. Wm. Murphy having been recommended by Vice-President Gillett and the Cincinnati Florists' Club for superintendent of the trade exhibition, was unanimously elected to that office.

A resolution was adopted that no goods should be sold at retail at the trade exhibition of this society. It was also decided that an advisory committee of three should be appointed for the trade exhibition. E. F. Winterson was appointed chairman of the sports committee. J. W. Rodgers having requested the board to name some persons who would be qualified to speak regarding floriculture before Chatauqua associations, the following names were suggested: E. G. Hill, Robert Craig, P. O'Mara, John T. Withers and Leonard Barron.

The visit of the board to Cincinnati was made most enjoyable by the hospitality shown by the local members. The banquet at the Sinton house on Monday evening was a most enjoyable event. The entertainment by the club on Saturday night was most thoroughly appreciated and the invitation extended to the board by J. A. and Mrs. Peterson and R. and Mrs. Witterstaetter resulted in most enjoyable visits to their beautiful homes and places of business.

The following final resolutions were adopted:

"In closing the session we wish to tender our thanks to the Cincinnati Florists' Club and its members for their friendly reception, their effective assistance and their magnificent hospitality and our thanks are especially due to Mr. and Mrs. Peterson and Mr. and Mrs. Witterstaetter for inviting us to their homes and receiving us with such lavish and open handed hospitality."

REGISTRATION OF CLEMATIS.

Public notice is hereby given that the Jackson and Perkins Co., Newark, N. Y., offer for registration the plant described below. Any person objecting to the registration of this plant or to the use of the proposed name is requested to communicate with the undersigned at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Clematis paniculata rubra.—Parentage, Clematis paniculata X C. viticella rubra; description, color of flowers, deep carmine; size and shape of flowers and manner of blooming are the same as those of C. paniculata.

March 19, 1909. W. N. RUDD, Sec'y.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By practical gardener and florist; private or commercial; life experience; good reference. Address J. HODGE, 210 N. Tod Ave., Warren, O.

Situation Wanted—By first-class grower of roses, carnations and general stock; 20 years experience; married; best references. Key 828, care American Florist.

Situation Wanted—By all around gardener; private place preferred; 14 years' experience in greenhouse and nursery stock; can furnish first-class references. Key 825, care American Florist.

Situation Wanted—A young man wishes employment in greenhouse; have had six years' experience in carnations, roses and general line of stock; please state wages with or without board. Address P. O. Box 217, Morris, Ill.

Situation Wanted—By young married man as grower of carnations, 'mums, vegetables and bedding plants; either commercial or private and near Philadelphia; 10 years' experience; best of references; at liberty June 1. Address Key 828, care American Florist.

Situation Wanted—As working foreman; German, single, 31 years of age; good grower of roses carnations, 'mums and general stock; also good designer and decorator; 17 years' experience; sober and honest, good worker, best of references. Address F. WILL, Florist, 64 Palmer Ave., Chicago.

Situation Wanted—As gardener and florist on private or State School preferred; life experience in fruit, flowers and vegetable garden, lawns, flower beds and cut flowers, palms, ferns roses, carnations, good worker and sober; best of references. Address FRANK, FLORIST, 1253 N. California Ave., Chicago.

Situation Wanted—To take charge of a retail place in the state of Colorado or nearby states; 25 years' practical experience in the growing of cut flowers, potted plants and out of doors gardening; capable of handling help; sober, honest and reliable man 40 years of age. Address Key 826, care American Florist.

Situation Wanted—As foreman or first-class grower, by German florist; can grow roses, carnations, 'mums, lily of the valley and general stock; sober; married; 32 years old; nine years' experience in Germany, six years in the U. S.; best reference. Address NICK TERTSCHEK, 2091 William St., Columbus, Ohio.

Help Wanted—A rose grower; state wages. Address Key 830, care American Florist.

Help Wanted—In Chicago, man familiar with greenhouse plants for general greenhouse work. Key 832, care American Florist.

Help Wanted—A helper on roses; will pay $12.00 per week; show for advancement. Address Key 831, care American Florist.

Help Wanted—Good first class rose grower; married man preferred; good wages for suitable man. Key 824, care American Florist.

Help Wanted—A good helper with 2 or 3 years experience, steady worker and good wages. EDWARD TATRO, 401 E. Iron Ave., Salina, Kansas.

Help Wanted—Young man to work in first-class florist store; state salary expected. BOHANNON FLORAL CO., 29 E. Monroe St., Chicago.

Help Wanted—A fireman; must be strictly sober; will pay $12.00 per week; steady job the year around. Address Key 829, care American Florist.

Help Wanted—First-class greenhouse man for bedding plants under head gardener; married man preferred. Address SUPT. OF PARKS, P. O. Box 1027, Hartford, Conn.

Help Wanted—A young gardener who has experience in cemetery flower houses, also able to do grave planting; must have good references. Address or call. WALDHEIM CEMETERY CO., Oak Park, Ill.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to WRIGHT'S FLOWER SHOP, 224 W 4th St., Los Angeles, Calif.

Help Wanted—A competent and reliable single man for general greenhouse work; none but first-class man need apply; send references and state wages in first letter. G. L. HUSCROFT, Steubenville, Ohio.

Help Wanted—Want to correspond with a first-class grower, capable of taking charge of 40,000 to 50,000 feet of glass, where a general line of stock is grown for the wholesale and retail trade. Address KEMBLE FLORAL CO., Oskaloosa, Iowa.

Help Wanted—One experienced flower grower and one experienced nurseryman; married or single; permanent positions for right parties; state experience and particulars; references required. F. C. SMITH, Ashland, Wis.

Help Wanted—Good reliable man in nursery department at our retail store; must have some knowledge of landscape gardening, good salesman and hustler. A good positon for the right party. State wages. Address THE LIVINGSTON SEED CO., Columbus, O.

Partner Wanted—With $800 to $1000, to take half interest in greenhouse and store; good business; established a year; city of 250,000; want to enlarge. Key 822, care American Florist.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

WANTED.

Some good secondhand pipe, 1-inch, 1¼-inch 1½ inch and 2-inch black iron pipe; no junk or steel. Also a ventilating outfit for three houses 200 feet long.

JOHN BLECHSCHMID,
Miles Ave., CLEVELAND, O.

WANTED.

Working foreman; experienced grower of roses, carnations and 'mums; married man of ability and energy; salary $16.00 per week and increase for results shown. Answer with references please.

MAX RUDOLPH,
11 W. 12th Street, CINCINNATI, OHIO.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Manager Wanted.

$1200 salary and cottage to hustling greenhouse manager thoroughly posted in all branches for a large retail florist business; 100,000 feet of glass; middle Atlantic states; an energetic man would be given an opportunity to buy an interest.

Write with all particulars.

CONOVER CO.,
care American Florist, Chicago.

WANTED.

Some one who will take up a desirable lot, low in price for the purpose of erecting greenhouses on it. The place owned by me is on the outskirts of Cranford, N. J., very favorably situated for a greenhouse business where a good home market can be had and where it is accessible to New York. I am willing to build the greenhouses for the man and then either rent or sell to him on easy terms Key 821, care American Florist.

FOR SALE.

Wholesale and Retail Floral Establishment, well stocked; consisting of 12 large greenhouses, the majority erected within the last two years, 2½ acres of land, 12-room brick residence; shop, barn, wagon, implements, tools, etc. Everything in **first-class** condition. Owner has been in business 25 years and wishes to retire. For terms, address,

C. CRAMER, R. F. D. No. 4,
Salt Lake City, Murray Station, **Utah.**

RECENT BOOKS.

Les Fleurs De Pleine Terre.

This monumental and encyclopedic work has just been issued in a fifth edition, with an introduction by M. Philippe de Vilmorin. Briefly, it may be said to be a huge compendium in French of all the flowers, annual, biennial, hardy and bulbous that can be grown in the open, and included in it are various selections for various purposes, the time of planting, etc. There are over 1,800 black and white illustrations, besides several colored plates. The arrangement is alphabetical, and under the name of each plant is given the etymology, family varieties, habitat, culture and propagation. There are several colored plans by the imminent French landscape artist, M. Ed. Andre, and when we say that the work contains 1,375 pages, it will easily be seen that it is one far too comprehensive and voluminous for us to do other than refer to in the most superficial manner. At the end we notice a useful list of the names of flowers in English, German, Spanish, Portuguese and Italian. There is also a glossary of botanical and horticultural terms employed in the book, a list of authors quoted, and much other useful information. As a work of reference to those who know French "Les Fleurs de Pleine Terre" will be invaluable. It is published by the well known firm of Vilmorin-Andrieux & Co., Le Quai de la Mégisserie, Paris.

P.

Scotch Gardens.

A very superficial acquaintance with American horticulture reveals the fact that there are many gardeners of Scotch descent settled down in the United States. To those who have still an interest in the country of their birth or origin, we draw attention to a handsome edition de luxe entitled "Scottish Gardens," by Sir Herbert Maxwell. Square demy in form, containing over 250 pages, well printed and most artistically bound, this book ranks as one of the most attractive that has recently issued from the press on horticulture. There is a series of handsomely colored full paged plates, comprising 32 in all. The opening chapter is an essay on Scottish gardens in general, and the text contains a representative selection of different types, old and new.

Among the places treated are Ardgowan Whitehouse, Pollok, Castle Kennedy, Malleny, Kellie Castle, Cawdor Castle, Manse of Fyvie, Balcarres, Carnock, Dalzell Castle, Dunrobin', and others. There are three appendices, which deal with rhododendrons and other shrubs, herbs and bulbs suitable for the climate of Scotland.

P.

The Sweet Pea Cult in England.

The sweet pea, with its special society to foster its culture, is going on apace, and evidence of its hold on public favor may be gauged by the several cultural treatises that have recently appeared. The most modern is a handy little manual of 112 pages, well printed, freely illustrated and compiled by H. H. Thomas, a well known horticultural writer and editor of "The Gardener." The work is entitled "Sweet Peas and How to Grow Them." The price in England is equivalent to 25 cents.

P.

Truthful and Accommodating.

M. S. Foreman, a florist of Louisiana, Mo., wants a representative in New Canton, and has asked me to act as such. They deal in cut flowers, plants, funeral emblems and wedding decorations. I don't know any more about flowers than a rabbit, but if you want them I'll order them for you.—New Canton Press.

Hello! Here We Are Again

with an extra fine supply of

EASTER LILIES

$12.50 and $15.00 per 100.

Now is the best time to order Pot Lilies, while in bud.

CALLAS

Prices subject to market change. Cash with order.

MIAMI FLORAL CO.

24 N. Main St., DAYTON, O.

Fancy and Dagger FERNS $1.75 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.5
Sphagnum Moss, large bales.....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000. 7.50
Boxwood.....35c per bunch; 50 lbs.. 7.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway, All Phone Connections. **DETROIT, MICH.**

FANCY.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

WE NEVER DISAPPOINT. SATISFACTION GUARANTEED.

DAGGER.

Pittsburg.

MARKET CLEANS UP DAILY.

The carnation market is showing surprising strength, all grades and colors selling out nicely each day. Roses are more plentiful and job lots can be bought at low figures. The call for American Beauty is good but the quality is a little off. Orchids and gardenias are slow. Bulb stock took a brace and, with the exception of daffodils, cleans up nicely. Violets are plentiful and sell well at low prices.

NOTES.

At the Phipps conservatories in Schenley park, Foreman Jones has on exhibition an African lily (Crinum fimbriatum) which was brought from Africa by a lady who was with Prof. Garner learning the monkey language. The flower is white with a delicate pink stripe running down the center of each petal.

The "open all night" idea is getting to be quite popular on the north side. E. C. Ludwig began it a couple of years ago and recently Fritz Ueberle put up the same sign and on March 15, G. & J. W. Ludwig opened at 626 E. Diamond street. They all run stands in the market also.

Elmer Jolliffe, formerly with J. B. Murdoch & Co., has gone to Philadelphia to accept a position with W. E. McKissick & Bro.

Ernest Zieger has returned from the east where he was looking up good things for Easter.

Visitors: John Walker, Youngstown, O., and Thos. Murdoch, Titusville. J.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,

EVERGREEN, ALA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.

Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Always mention The American Florist when you order stock.

PRICE LIST ... EASTER 1909

COME AND SEE OUR STOCK

The late Easter and the fine weather have helped us in having the Crimson and Pink Ramblers, Hydrangeas, Lilies, Azaleas, Rhododendrons, etc., especially fine. No occasion for hard forcing this year.

ROBERT CRAIG COMPANY,

Forty-Ninth and Market Streets,
PHILADELPHIA, .. PENNA.

LILIES.

Our stock is exceptionally good this year.
Plants with from 4 to 8 blooms....at 12 cents per bloom
Made-up pans with from 12 to 25 blooms at 12 cents per bloom.
Plants with less than 4 blooms....at 15 cents per bloom

AZALEAS

We have the largest and finest stock of Azaleas we have ever had, including Vander Cruysen, Vervaeneana, Emp. of India, Emp. of Brazil, Niobe, Bernard Andreas Alba, Prof. Wolters, etc., etc., at $.75, $1, $1.25, $1.50, $2, $2.50, $3, $3.50, $4, $5, $6, $7.50 and $10 each
A few larger specimen plants....at $12.50 and $15 each
Pyramid Azaleas, very fine.....at $3, $3.50 and $4 each
Small Azaleas for Basket work.....at $3 and $4 per doz.

CRIMSON RAMBLER ROSES

These plants are unusually fine and will be just right for Easter.
6-inch and 7-inch pots.....at $1, $1.25 and $1.50 each
8-inch pots.....at $2 and $2.50 each
Plants trained in fan and globular shapes, extra fine, at $2, $2.50, $3, $3.50, $4, $5 and $6 each,
A few larger plants.....at $7.50 each

PINK RAMBLER ROSES

Lady Gay and Dorothy Perkins

In great condition; trained into Fan, Globular and Pyramidal shapes, at $1.25, $1.50, $2, $2.50, $3, $3.50 and $4 each.
Special Ball Shapes.....at $1.50, $2, and $2.50 each
Special Wire Fan Shapes.....at $3 each

TAUSENDSCHON (New)

"Thousand Beauties"

This was our finest Climber last Easter, and this year the plants are still better. We cannot recommend the Tausendschon Rambler too highly.
Strong plants in 6-inch and 7-inch pots at $1, $1.25 and $1.50 each.
Trained plants, Fan, Globular and Pyramidal Shapes, at $2, $2.50, $3, $3.50, $4 and $5 each.

BABY RAMBLER STANDARDS

Exceptionally fine plants, 3 to 5 foot stems, at $1, $1.25, $1.50, $2 and $2.50 each.

WHITE BABY RAMBLER STANDARDS

At $1, $1.25 and $1.50 each.

STANDARD DOUBLE-BUDDED WHITE AND RED BABY RAMBLER ON SAME PLANT

At $1.50 each.

BABY RAMBLERS

Good strong stock, well flowered, at $3, $6 and $9 per doz.

WHITE BABY RAMBLERS

Very strong plants, well flowered, 6-inch pots, at $9 per doz.

MRS. CUTBUSH (New)

Pink Baby Rambler

This is a good one, in 6-inch pots, at $6 and $9 per doz.

BABY DOROTHY (New)

Pink Baby Rambler very similar to Mrs. Cutbush.
5-inch pots .....at $6 per doz.
6-inch pots.....at $9 per doz.

HYBRID ROSES

We have an unusually large stock of Hybrids which will be just right for Easter; all the best varieties, including Richmond, Frau Karl Druschki, La France, Mrs. John Laing, Tom Wood, Killarney, etc., at $6 and $9 per doz.
Magna Charta, very fine, at $9, $12, $15 and $18 per doz.

HYDRANGEAS

The largest and finest stock of this grand Easter plant that we have ever grown, at $5, $6, $9 and $12 per doz.
Larger Plants....at $1.50, $2, $2.50, $3, $4, and $5 each

RHODODENDRONS

Shapely, well-budded plants, including all the best varieties, ..at $1.50, $2, $2.50, $3, $3.50 and $4 each
A few larger plants.....at $5 each

RHODODENDRON PINK PEARL (New)

The most beautiful of all the Rhododendrons at $2.50 $3 and $3.50 each.

LILY OF THE VALLEY

5-inch pots.....at $6 per doz.
6-inch pots.....at $9 per doz.

BOUGAINVILLEA GLABRA SANDERIANA

Magnificent plants, exceptionally well flowered, at $3.50 $4, $5, $6, $7.50 and $10 each.

LILACS

Very fine plants, 6-inch to 8-inch pots, at $2, $2.50 and $3 each

GENISTAS

A grand stock, grown cool, and just right for Easter, at $2, $3, $4, $5, $6 and $9 per doz.
Larger plants.....at $2, $2.50, $3, $4, $5 and $6 each

SPIREA GLADSTONE

Our stock is in superb condition.
6-inch pots.....at $.50 each
7-inch pots.....at $.75 each
8-inch pots, made up.....at $1 each
9 and 10-inch pots, made up.....at $1.50 and $2 each

PINK SPIREA

Queen Alexandra, very beautiful.
6-inch pots.....at $9 per doz.

DOUBLE DAISY (Queen Alexandra)

Well grown and well flowered.
3-inch pots.....at $1.50 per doz.
4-inch pots.....at $2.50 per doz.
5-inch pots.....at $4 per doz.
6-inch pots, very fine.....at $6, $9 and $12 per doz.

NEPHROLEPIS SCOTTII

5-inch pots.....at $4 per doz.
6-inch pots.....at $6 and $9 per doz.
8-inch pans .....at $12 per doz.
10-inch pans.....at $1.50 and $2 each
12-inch pans.....at $2.50 and $3 each

NEPHROLEPIS TODEAOIDES

The London Fern

We have a large stock for growing on, in 2-inch pots, at $5 per 100; $45 per 1000.
6-inch pots.....at $6 per doz.

NEPHROLEPIS AMERPOHLII

The Philadelphia Lace Fern

2¼-inch pots.....at $5 per 100; $45 per 1000
5-inch and 6-in pots..... at $6 per doz.

NEPHROLEPIS WHITMANII

5-inch and 6-inch pots.....at $6 and $9 per doz.

ASPARAGUS PLUMOSUS

3-inch pots.....at $7 per 100; $60 per 1000

ARAUCARIA EXCELSA

Big value.
5-inch and 6-inch pots, 4, 5, and 6 tiers, at $.75, $1, and $1.25 each.

ARECA LUTESCENS

Exceptionally fine stock.

5-inch pots.....at $7.50 and $9 per doz.

DRACAENA MASSANGEANA

Perfect plants, 6-inch pots.....at $15 and $18 per doz.

DRACAENA FRAGRANS

6-inch pots.....at $6 and $9 per doz.

DRACAENA TERMINALIS

Very highly colored.

3-inch pots.....at $15 per 100
4-inch pots.....at $25 per 100
5-inch and 6-inch pots.....at $6 and $9 per doz.

CROTONS

We have the largest stock of Crotons in America. Well-colored plants.
4-inch pots.....at $25 per 100
5-inch pots.....at $50 per 100
6-inch pots.....at $75 per 100

PANDANUS VEITCHII

Well-colored

5-inch pots.....at $9 per doz.
6-in pots .....at $12 and $15 per doz.
8-inch pots.....at $24 per doz.

FICUS PANDURATA

We have some exceptionally fine plants, from 6 feet to 10 feet tall, at $5, $6, $7.50 and $10 each.
We are entirely sold out of smaller sizes until June delivery, and are booking orders rapidly to be filled at that time, for plants in 6-in pots, 24 inches high, at $24 per doz.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

Holton & Hunkel Co.,
WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

RICE BROTHERS
Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

Weiland & Olinger,
128 E. Third St., CINCINNATI, OHIO.
Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

NORWICH, N. Y.—E. F. Quinn is making another considerable addition to his greenhouses on East Main street.

SEA GIRT, N. J.—Geo. H. Gregory is erecting another large greenhouse to meet the demands of his constantly growing business.

ROCHESTER, N. Y.—The spring display at Highland Park conservatories is especially fine this season and is drawing large crowds of visitors.

THE
J. M. McCullough's Sons Co.
Wholesale Commission Florists.
CONSIGNMENTS SOLICITED.
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Wholesale Flower Markets

ST. LOUIS, Mar. 24.

Roses, Beauty, long stems	4 00@ 5 00
" " medium stems	2 00@ 3 00
" " short stems	50@ 1 00
" Bride, Bridesmaid	5 00@10 00
" Chatenay	5 00@10 00
" Ivory	5 00@10 00
" Killarney	4 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	6 00@10 00
" Richmond	6 00@10 00
" Alice Roosevelt	5 00@ 8 00
Carnations, fancy	3 00@ 4 00
common	2 00@ 2 50
Hyacinths Roman	1 50@ 2 00
Lily of the Valley	3 00@ 4 00
Violets	30@ 35
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 00	
Smilax	12 50@15 00

CINCINNATI, Mar. 24.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Tulips	4 00@ 5 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Mar. 24.

Roses, Beauty, special	6 00
" " fancy	4 00
" " shorter	1 00@ 3 00
" Bride, Bridesmaid	3 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	12 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 4 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00

MILWAUKEE, Mar. 24.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@12 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	1 50@ 4 00
Daffodills	2 00@ 3 00
Lilium Giganteum	12 50@15 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Violets	50@ 75
Adiantum	1 50
Asparagus, per string,	50
" Plumosus, per bunch, 25	35
" Sprengeri, "	25
Ferns, Common, per 1000,	2 50
Galax, per 1000,	1 50
Smilax, per doz.,	1 75

EASTER
Price List.

AMERICAN BEAUTIES

	Per doz.
Long Stems	$5.00
30-inch stems	4.00
24-inch stems	3.00
20-inch stems	2.50
15-inch stems	2.00
Short stems	1.00

Richmond

	Per 100
Select	$ 8.00 to $10.00
Medium	5.00 to 6.00

Killarney

Select	10.00 to 12.00
Medium	5.00 to 8.00

Mrs. Marshall Field

Select	10.00 to 12.00
Medium	5.00 to 8.00

Bridesmaid, Bride

Select	8.00 to 10.00
Medium	5.00 to 6.00

Chatenay, Ivory

Select	8.00 to 10.00
Medium	5.00 to 6.00

Perle, Sunrise

Select	8.00
Medium	5.00 to 6.00

CARNATIONS

	Per 100
Are all good	5.00

Easter Lilies

Short	10.00 to 12.00
Select	15.00
Tulips,	4.00 to 6.00
Violets,	1.00 to 1.50
Valley,	3.00 to 4.00
Daffodils,	3.00 to 4.00
Callas,	12.00 to 15.00
Paper White,	3.00 to 4.00

Asparagus Plumosus
Extra quality per bunch, 75c

Fancy Ferns
Per 1000 $2.50

Give your customers roses that keep well and you will keep your customers.

Reinberg's roses outlast any others.

PETER REINBERG
35 Randolph St., CHICAGO.

If the Stock is good
And the Prices Right

REMEMBER

That It Pays Best to Advertise in

The American Florist

HERE'S SOME OF THE EVIDENCE:

Highland Park Greenhouses
FRITZ BAHR, Proprietor

Telephones 85 and 78

Highland Park, Illinois, March 8, 1909.

AMERICAN FLORIST CO.,

For goodness' sake stop the Lucille Ad. We are unable to fill our orders. I am more than ever convinced that if the AMERICAN FLORIST don't bring answers to an Ad. no other paper will.

Yours,

FRITZ.

Mr. Bahr had a three-quarter page Ad in two consecutive issues of THE FLORIST, February 27 and March 6, and on March 8 wrote the above.

It will pay YOU to advertise in our

Special Spring Number

Which Goes to Press March 31

Let us have your copy early for best display and position.

AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO

Longiflorum Giganteums **Easter Lilies.** Our reputation as to these flowers for Easter has been established for years. Grown by the most critical grower from the most expensive bulbs. Packed at the greenhouse and shipped in original packages direct to the consumer. No bruised or inferior flowers. You can't afford anything but the best in this line at Easter time. Get our prices. They are no more than you will pay other places for an inferior article.

Our White Lilac in now of the larger variety—especially fancy stock, and the crop is large enough to warrant the special low price we now offer it. **$1.00 per bunch.**

If you do not receive Our Cut Flower Price List regularly and are interested, drop us a line.
Also large supply of all other Seasonable Cut Flowers. Headquarters for both Single and Double Violets.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Chicago.

AMERICAN BEAUTY AGAIN IN CROP.

Receipts have been a little freer the past week, but the market still cleans up each day fairly well. American Beauty roses are once more in full crop with the large growers and the supply is again equal to all demands. The quality has also materially improved. Other roses are also coming in gradually increased quantities, with quality of the leading varieties about all that can be desired, everything considered. Carnations are in a little better supply, although the demand for funeral work keeps the price of white stock rather high. The fact that the carnation market has been inclined to continue rather stiff has been of material advantage in the disposal of bulbous flowers. Tulips, daffodils and southern jonquils have been moving very satisfactorily. Little freesia is now to be seen. Easter lilies are in better supply, and these with the callas are about sufficient to supply the existing demand. Sweet peas are selling very well, with both quantity and quality to be had. There are still too many violets coming in.

NOTES.

Bassett & Washburn were the fortunate winners of the first prize at Buffalo for American Beauty roses, and as there were seven entries, the honor was a well earned and well appreciated one. This firm also took second on Killarney among five entries. Saturday night the boys at the Hinsdale greenhouses celebrated the event with beer and cigars at the expense of their employers.

J. A. Valentine stopped off three days in this city, returning from the Buffalo rose show and the earlier Cincinnati meeting of the S. A. F. executive committee, leaving for the west March 22, He will call at Des Moines, Ia., on his way to his Denver home.

The loquat is in fruit in the conservatories at Washington park, Chicago, and those interested should visit them for the display of flowering plants there just now is very fine.

Watch the "Our Pastimes" column for the smoke of the local bowling team. If the present vim and interest keep up some crack scores are sure to be made. (See page 466.)

H. Schmitz, formerly of the St. Boniface cemetery, has bought the Hubert Hanson place at 4016 N. Clark street. Possession will be given April 1.

C. C. Pollworth and wife, of Milwaukee, and J. A. Valentine, of Denver, Colo., were among those attending the funeral of Mrs. Hauswirth on Monday.

Peter Reinberg has just begun cutting from a big crop of American Beauty roses. Field roses are also coming in fine at this time.

W. N. Rudd delivered a much appreciated address before the Jacksonville Ladies' Club March 20, on the uses of trees and shrubs.

It has been rumored that our genial friend, Joe Smely, of Aurora, has been asked to become a candidate for mayoral honors.

Geo. Reinberg has a fine crop of American Beauty roses just coming on. He is also cutting some very fine cattleyas.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

Mrs. C. W. McKellar has been called to Paris, Tex., on account of the serious illness of her mother.

Fred Lautenslager, of the Kroeschell Bros. Co., is home again after one of his extended trips.

Edward Amerpohl, who was in town Monday, is to build three new houses at Janesville, Wis.

The unexpected death of Earnest Weeber is chronicled in our obituary column.

Zech & Mann expect to be well fixed on the lily proposition for Easter.

Anton Then has a fine stock of lily plants ready for Easter.

O. P. Bassett and wife left Wednesday for Hot Spring, Va.

C. W. McKellar is showing some fine Dendrobium nolile.

Visitors: Prof. L. R. Taft, Agricultural College, Mich.; H. Van Teylingen, representing Van Zanten & Co., Hillegom, Holland; R. A. Latham, Minneapolis, Minn.; A. L. Glaser, Dubuque, Ia.; John Pauli, Davenport, Ia.; Edward Amerpohl, Janesville, Wis.; F. C. Weber, Jr., St. Louis, Mo.; J. A. Valentine, Denver, Colo.; C. C. Pollworth and wife, Milwaukee, Wis.; J. G. Frisz, Vincennes, Ind.; B. Eschner and E. J. Fancourt, both of Philadelphia, Pa.

Illinois State Fair.

Robert O'Dwyer of the Illinois State Board of Agriculture has secured an appropriation of $2,616 for the horticultural display at the state fair to be held at Springfield September next. With this appropriation he has the rotunda of the Dome building for his display.

With a view to interesting growers outside of the city and precincts, Mr. O'Dwyer has raised the premiums on stove and greenhouse plants, palms, etc. It has been thought that there was, if not collusion among growers, at least no great emulation to do better than has been done while the few premiums given were not sufficient to attract growers from a distance. The premiums on stove and greenhouse plants will this year be $75, $60, $40 and $30. For 12 palms $30, $20, $15 and $10 will be offered; for six palms, $12, $8, $6 and $4; for two, $7, $5, $4 and $3; for one, $4, $3, $2 and $1. Mr. O'Dwyer has evidently the good of the show at heart and it is to be hoped that these premiums will bring out a creditable display from other cities, from which the cut flower exhibits are usually good.

It is satisfactory to note that Mr. O'Dwyer has got all he asked for the department of floriculture, without a dissenting vote, from the State Board of Agriculture. For space he has got the whole rotunda in the Dome building, and a raise of $116 in appropriation, making $2,616 in all. The premium list is now in the press or about ready for press.

Wietor Bros.,

Wholesale Growers of CUT FLOWERS.

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
18 inch stems	1 50
15 inch stems	1 25
12 inch stems	1 00
Short	75

	Per 100
Bridesmaid and Bride, fancy	$ 6 00 to $ 8 00
Good	4 00
Killarney, fancy	6 00 to 8 00
Good	4 00
Chatenay, fancy	$ 6 00 to $ 8 00
Good	4 00
Mrs. Jardine, fancy	6 00 to 8 00
Good	4 00
Kate Moulton, fancy	6 00 to 8 00
Good	4 00
Richmond, fancy	6 00 to 8 00
Good	4 00
Uncle John, fancy	6 00 to 8 00
Good	4 00
Perle	6 00 to 8 00

ROSES, Our Selection, $5.00 per 100

Carnations,	Per 100
Fancy	$ 3 00
Good	$ 1 50 to 2 00

Long Distance Phone, Central 6004.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen,
—FLORISTS' SUPPLIES—

FOR EASTER.

We have a large stock of all novelties, etc., including fancy Baskets, Waterproof Crepe, Two Tone Crepe, Pleated Crepe Adjustable Waterproof Crepe Pot Covers, Chiffons and Ribbons, all colors. Birch Bark Basket and Canoes for Air Plants, etc

Just received a fresh supply of Japanese Air Plant. Catalogue free.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO

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CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.

WHOLESALE FLORISTS

FARGO, N. D.—The Shotwell Floral Co. will built three new greenhouses 25x100 feet and a potting shed 16x66 feet. The firm has bought 14 city lots 50x150 feet and will buy new delivery wagons from St. Paul.—R.

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in **Violets, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

Mention the American Florist when writing

"THE BUSIEST HOUSE IN CHICAGO"

DEAMUD

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

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KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders
——given prompt attention.——
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO Mar. 24.

Roses, Beauty, extra select		5 00
" " 36 in		4 00
" " 30 in		3 00
" " 20 to 24 in	2 00@	2 50
" " 15 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select	10 00@	12 00
" " medium	6 00@	8 00
" Chatenay, select		10 00
" " medium	6 00@	8 00
" Golden Gate, Uncle John	4 00@	8 00
" Kate Moulton	4 00@	8 00
" Killarney, select	10 00@	12 00
" " medium	5 00@	8 00
" Mrs. Marshall Field, select	12 00@	15 00
" " " medium	6 00@	10 00
" Perle	5 00@	8 00
" Richmond, extra select	10 00@	12 00
" " medium	5 00@	8 00
Carnations	1 00@	3 00
Callas ..... per doz.	2 00@	2 50
Cattleyas ..... ($9.00 per doz.)	60 00@	75 00
Daisies	50@	2 00
Gardenias ..... per doz	6 00	
Hyacinths, Roman	3 00@	4 00
Lilium Harrisii ..... per doz.	2 00	15 00
Lily of the Valley	3 00@	4 00
Pansies	1 50@	2 00
Stevia	1 00@	2 00
Sweet Peas	75@	1 50
Tulips		3 00
Violets, single	50@	1 00
" double	50@	1 00
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" sprays	2 00@	4 00
" Sprengeri	2 00@	4 00
Boxwood ..... per bunch		35
Ferns, fancy ..... per 1000		2 00
Galax, green, per 100 15; per 1000		1 00
" bronze per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild ... per 50 lb. case		5 00

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THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

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Telephone, Central 3284.

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35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

New York.

EASTER PROSPECTS GOOD.

Business was dull during the past week with falling prices. There were good sales of pots of shamrocks for St. Patrick's day but that event made little impression on the cut flower trade. Rose prices have been steadily dropping and special American Beauty has touched 25 and 30 cents, with a corresponding decline in tea roses. As forerunners of Easter, rambler and other rose plants; fine pots of lilac, rhododendron, hydrangea and other plants are now seen in the retail stores. There is a stiffening in the prices of cut lilies, due to the approach of Easter. While four cents is the best that is being paid for even fancy carnations, this stock as a rule, in all grades, cleans up better than roses. Good tulips and the best narcissus are not in over supply, but much southern narcissus is finding its way to street trade. The prospects seem good for Easter trade and there can be little doubt that there will be an ample supply of both pot and cut stocks to supply all demands.

March 22.—Conditions in rose stock are not encouraging, American Beauty being practically a glut with specials selling at 15 to 25 cents. Carnations move freely at nominal figures. The demand for orchids and gardenias is very light, but considerable movement is noted in the minor stocks at low figures.

FLORISTS' CLUB OUTING.

The annual outing of the Florists' Club, it is announced by the committee, will be held Thursday, July 1, at Whitestone Landing, L. I. Breakfast will be served at 12 noon and dinner at 6 p. m., after which there will be a moonlight sail on the sound in the steamer Isabel. The steamer will leave the city as formerly at 10 a. m. Further announcements will be made later. The next monthly meeting of the club will be held in the rooms, Grand Opera house building, April 12, at 8 p. m. On account of deferred and new business, this meeting is likely to be a very interesting event. Vice-president-elect F. R. Pierson of the American Rose Society, ex-president Traendly of the S. A. F., A. M. Henshaw and others who visited the Buffalo convention and exhibition are expected to be present and talk interestingly of what they saw there.

NOTES.

Strong pressure is being brought to bear on the members of the assembly, especially those who are on the committee of cities, to vote against the Francis bill giving the national academy of design a site for a building in Central park. The east side is particularly interested, and many clubs in connection with the settlements have taken the matter up and passed resolutions upon it.

Julius Roehrs, Sr., Rutherford, N. J., wife and daughter, sailed for Europe March 23, on the Kronprinzessin Cecille, and intend visiting the international flower show at Berlin. They will probably be absent all summer.

Geo. Gerharty, manager of Dunlop's Toronto, Ont., visited this city last week in the interest of his firm. Mr. Gerharty was formerly a well known figure in the cut flower trade of the wholesale district.

Geo. Hildebrandt, of John Young's wholesale store, who has been very ill, was able to visit the store March 22, and it is expected that he will soon be in harness again.

L. B. Craw, of Lord & Burnham Co., who recently underwent a delicate surgical operation, is said to be progressing favorably toward recovery.

Interior and exterior views of Chas. Millang's busy store on West Twenty-ninth street are given in this issue on pages 426-427.

European Horticulture.

FROM THE FRENCH TRADE PAPERS.

BEST ROSES OF THE YEAR.—The prizes at the celebrated Bagatelle rose competition in Paris in 1908 were all awarded outside France. Had not M. Pernet-Ducher withdrawn from competition his Lyons rose would, perhaps, have led; as it was Rhea Reid, of the E. G. Hill Co., carried off the honors for America, receiving a gold medal. Dorothy Page Roberts, of Dickson & Sons, a large sulphur yellow tea, lighter at the tips of the petals. Madame Segond-Weber, magnificent large salmon-pink rose on a long firm stem. (Soupert and Notting.) Mistress Dudley Cross, a pretty chamois yellow tea rose, shaded with pink—(Wm. Paul & Sons). Frau Oberhofgaertner Singer, very beautiful hybrid tea of a deep pink color outside, lightly silvered within; bud quite long, stem long and stiff—(P. Lambert), took honors in the order named.

THE funeral at Troyes of the veteran pomologist, Chas. Baltet, was an impressive and solemn occasion. He was accorded the military honors due to his rank in the Legion of Honor; the pallbearers were the mayor of Troyes, the presidents of academic and horticultural societies and civil dignitaries and friends. The procession was led by the Academic Society of the Aube, the Horticultural Society of the Aube, the Association of Former Pupils of the National School of Horticulture, and the Society of St. Fiacre. After the hearse followed the two oldest employes of the house, bearing the decorations of the deceased, the servants, the family, the representative of the prefect, the city council, Commandant Aynie of the first chasseurs, and officers, and many distinguished men. Addresses were made at the cemetery by six gentlemen representing different associations, with whom M. Baltet had maintained close relations during his active and influential life.

BURGER'S PELARGONIUMS.—An example of what may be accomplished by persistent effort along a line of plant improvement, singled out from among many, is furnished by Burger and his new race of pelargoniums. Not so very long ago on his little place at Halberstadt this man of limited resources but extraordinary foresight began to raise his first seedlings, then the result of crosses within the confines of varieties known as English pelargoniums. The mating of these with zonal geraniums later on resulted in forms, more nearly resembling true hybrids with characteristics not possessed by any type comprised in the genus. Patiently pursuing his chosen path in the field of progressive horticulture it eventually led up step by step to achievements that like few others in recent years, aroused so great an interest at every exhibition and so unstinted a measure of laudatory comment in the horticultural press. Burger's pelargoniums are indeed, as admitted by everyone, a distinctly new race, represented by some 30 or more varieties, differing slightly as to habit of growth, but furnishing a wide range in color of bloom, some of the varieties producing flowers of strikingly novel tints or color combinations, not heretofore displayed by pelargoniums of whatever class. The chief characteristics, briefly enumerated, of Burger's pelargonius are uniformly compact, dwarf growth, deep green, very firm foliage, flowers carried just above and clear of the foliage, coming in densely set, immense clusters, several of these clusters always fully out with others in bud-form constantly in their wake, an unbroken succession of bloom from early in March until winter sets in.

RIVIERA NOTES.—The narrow strip of coast region lying east of the river Var and nestling close under the snow-capped heights of the Alpes Maritimes, which here approach nearest the shore line, constitutes the warmest portion of the Riviera. But already at Nice the abruptly receding higher alps give way to mountain spurs of lesser altitude, interspersed with fertile valleys and more freely exposed upland plateaus. Here and in particular at Hyéres and Toulon, violets, anemones and all kinds of bulbous flowers are grown in astounding quantities for the northern markets. Between Nice and Cannes the more important kinds of cut flowers are grown and shipped from here to all parts of Europe, including the remotest northern points of Russia and Scandinavia. The largest establishments are located in this section of the Riviera, favored by the most congenial of climates and richest of soils. Foremost among main crops are carnations, immense masses of them everywhere. American sorts have not been tried here to the extent that might have been expected. Most of the sorts grown are the cream of seedlings as raised here by everybody in large blocks every year. Seed-bearing carnations are grown in pots and grafted on gypsophila roots, which imparts greater resistibility to fierce sunheat and incidental overwatering or rather its consequences. Wide areas are grown to roses and all other species of flowers and decorative greens that keep and travel well in long transit. Of novelties in the cut flower line, as here grown extensively, the blue marguerite—Dimorphotheca Ecklonis—sent out by Pfitzer, Stuttgart, and the newer forms of Gerbera Jamesonii, covering large spaces at Cap d'Antibes and meeting with ready sales all the year round, deserve mention. Great quantities also of egg-plants, tomatoes, peppers, melons, strawberries, etc., are raised here at every turn. Very interesting, too, is a visit to some of the large seed-growing establishments, located here, as for instance that of the firm of Vilmorin, Andrieux & Co. at Antibes.

FROM THE GERMAN TRADE PAPERS.

AMARYLLIS HYBRIDS.—The first one of the many hybrid forms of amaryllis now under cultivation was raised in 1810 by a watchmaker in England, Johnson by name. He had crossed Hippeastrum vittatum with H. reginæ, and although subsequently in the course of now nearly a century many thousands of fine hybrids were raised in all parts of the civilized world, none so far surpasses or even equals Amaryllis Johnsonii in ease of culture and general utility, says a writer in Gartenwelt. It is still the most favored, the most extensively grown for all purposes, under glass in the north and in small and large freeland plantations throughout the southern states of America and the warmer countries of Europe and Asia. At present, continues this authority, we have among the great number of newer originations many indeed much finer in some respects than the old Johnsonii, especially as regards size and color of flowers, but in the number of flowers on one stalk, in certainty of production and duration of bloom, and above all in the matter of inherent vitality and willingness to freely form offsets, Johnsonii is still the winner in the race for highest appreciation. Many of the very finest of new hybrids refuse to form offsets or produce them so sparingly that by this method of reproduction the number of individual plants of a variety is but slowly increased from year to year; the writer having had one for 14 years without securing a single side bulb. The most complete collections to be found at the present time, he says, are those of Major G. L. Holford, Robert P. Ker & Sons and James Veitch & Sons, all in England, besides scores of collections of lesser magnitude to be found in all countries devoted to floriculture.

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Open for Cut Flower Sales at 6 o'clock Every Morning.

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Phones, 798 and 799.

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Wholesale Florists,

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Wholesale Flower Markets

NEW YORK, Mar. 24.

	Per 100
Roses, Beauty, special	15 00@25 00
" " fancy	10 00@12 00
" " extra	8 00@12 00
" " No 1	4 00@ 6 00
" " No. 2	2 00@ 3 00
" " No. 3	1 00
" Bride, Bridesmaid, special	8 00@10 00
extra and fancy	4 00@ 6 00
No. 1	2 00@ 3 00
No. 2	1 00
" Killarney special	10 00@12 00
extra and fancy	6 00@ 8 00
" Richmond	2 00@15 00
Carnations fancy and special	3 00@ 4 00
" common	1 50@ 2 00
Callas, per doz.	75@ 1 00
Cattleyas	40 00@60 00
Daisies	50@ 2 00
Gardenias, per doz.	1 00@ 5 00
Lilac, Cut, per bunch	50@ 1 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	1 50@ 2 00
Mignonette, per doz.	30@ 60
Narcissus (Paper White)	2 00@ 2 50
" (Yellow)	1 50@ 3 50
" (Southern)	20@ 30
Sweet Peas, per doz bunches	1 00@ 1 50
Tulips	1 50@ 3 00
Violets	20@ 40
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

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Opposite N. Y. Cut Flower Co.

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Telephones: 2200 and 2201 Madison Square.

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Young & Nugent,

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42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

CHARLES MILLANG,

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444 Sixth Avenue, cor. 27th St.. NEW YORK.

Consignments Solicited.

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Philadelphia.

TRADE FAIR.

Business is moving along quietly with a rather short supply of flowers. Carnations, particularly white ones, are scarce and prices have advanced to $4-$5 per 100. The sweet pea crop has also shortened up and violets are visibly on the wane. Roses are in good supply and move off very well, the only laggard being Mrs. Jardine which has to be pushed. This is a beautiful flower but for some reason is not favored by most buyers. Lilac is about done. Harris is cut out and La Croix whose stock this winter has been so fine, is done for the season. The cold spell of the past few days has held back the southern daffodils but the next two weeks will see great quantities of the blooms thrown on the market. Orchids are scarce, 50 cents straight being the quotation for cattleyas. The shipping trade is good for the season, there being quite a demand from out-of-town buyers for week-end sales. Asparagus sprays are scarce and the bunches smaller. There never seems to be much of a surplus of this useful article at any time and it should prove a profitable stock for the grower. Hardy ferns require no pushing these days; the new case opened up by the dealer lucky enough to have it is cleaned out in a hurry; the price has advanced to $2 per 1,000.

EASTER PREPARATIONS.

The Easter trade is now the general topic. The out-of-town buyers are already about looking the stock over and making their selections. The outlook is good as many orders are already booked. Robert Craig says prospects are very bright as buyers are coming around earlier than usual and buying liberally. At Harris' they say they are booking orders every day and anticipate an excellent business. Other growers talk in much the same strain.

The news that the Florex Gardens, North Wales, are about erecting another mammoth house 175 feet wide by 700 feet long is creating considerable interest amongst the trade here. The management here is largely the same as at the greenhouses at Edgely, where they were the first to build houses 50 feet in width, which structures by many who were supposed to be authorities on greenhouses were considered impracticable. They would not stand the weight of snow or sudden strong high winds and would be difficult to beat. Time has shown, however, that these theories were incorrect and such houses are now considered standrd and many duplicates have since been erected. The experience with this extra large structure has evidently been satisfactory to the management. It has not blown down nor been destroyed by weight of snow nor found at all difficult to heat and very fine stock has been cut from the ground and benches contained therein. Hence the new house on a larger scale. To show its immense glass area the order has been given for 3,000 boxes. Work will commence early in the spring and it is hoped to get it roofed in before winter. K.

Philadelphia Spring Show.

An exhibition of the best of everything in spring flowering bulbs would almost describe the spring exhibition of the Pennsylvania Horticultural Society that opened its doors to the public on Tuesday of this week. There were other interesting features but the tables of hyacinths, tulips, lily of the valley and daffodils were the center of attraction. They were remarkably well done and the judges had a difficult task in awarding the prizes, the competition being so keen. The varieties of hyacinths for the H. F. Michell Co., prizes were all specified so that in this respect all entries were alike. The varieties were L' Innocence, La Grandesse, Kohinoor, Queen of Blues, Grand Maitre, and Moreno.

The premium list for narcissi and tulips also contained the varieties to be grown. In this way only the best and newest sorts were brought so that the latest advance in these classes was seen. Cineraria stellata was in evidence but not to such an extent as in former years; the plants were very well flowered; callas were very attractive there being several entries of large pots of plants carrying four to six flowers each. The yellow callas, Rossi and Solfaterre, attracted much attention. Primula obconica grandiflora as grown by Messrs. Batchelor and Robertson was a revelation. Such stock would sell in any store on sight. The heads of bloom were like geraniums and of a deep rose color. Spirea Gladstone was conspicuous there being several large entries of well flowered plants. Lilium Harrisii was exhibited by several growers, one double stalk over seven feet in height being shown. Wm. Robinson staged some magnificent wallflowers such as had never been seen here before.

A new and rare plant which received a first class certificate of merit was the specimen of Gloriosa superba Rothschildiana or the climbing lily of Africa. It carried a number of blossoms red with a gilt edge, a very striking flower. The H. A. Dreer Co., exhibited a table of the new fern, Nephrolepis Scholzeli which shows up very well as the stock is increased; it is a great addition to this type. The feature of the cut flower exhibits was the collection of sweet peas staged by Wm. Sim, of Cliftondale, Mass., which was awarded a silver medal. These were the best ever seen here. Such flowers as these will certainly enter more largely into competition with other greenhouse favorites in the near future. The new white carnation, Georgia, was shown, as was also a fine striped variety like Bradt, by T. J. McCormick of Baltimore, and M. Thaw of Govans, Md., exhibited a good collection. On the rose table was new variety called Radiance which received a certificate of merit. This is a flower of about the size of My Maryland but with shorter buds and dark pink in color. There were two vases of My Maryland one from the originator John Cook, Baltimore, Md., and the other staged by E. Towill. C. W. Stevenson and Robt. Scott & Son staged a vase of Mrs. Jardine as did Wm. Kleinheinz, all showing very fine flowers. The center of the large hall was decorated by Habermehl Bros. with palms and flowering plants in vases on pedestals. In the lower foyer the H. A. Dreer Co. and H. F. Michell Co. had exhibits of seeds and garden requisites. Of the awards Samuel Batchelor receives 14 firsts, and 10 seconds, Wm. Robertson, 16 firsts and 16 seconds, Wm. Kleinheinz, four firsts and 10 seconds, John McCleary, 21 firsts and five seconds, Wm. Fowler, two firsts and one second and John Hedland, one first and three seconds.

K.

Boston.

EASTER PREPARATIONS.

The Lenten dullness is being endured with the utmost patience by traders, with whom the principal object of attention is the planning for the Easter business. The usual spring market prevails, bulb stock overwhelming in variety as well as quantity. Jonquils and tulips of innumerable varieties are being dealt out in tremendous quantities. But little of this sort of stock goes to waste as the bargains offered usually clear up the market every day. The first of the Easter crop of lilies is being cut and shows splendid quality. American Beauty roses are gradually reaching the normal scale and sell fairly well in spite of the splendid line of Killarney available. While American Beauty is bringing $6 per dozen an equally desirable Killarney is offered for $3 and $4. Richmond continues as the most disappointing rose of the year. At no time this season has it shown the disposition and favorite traits of the rose as remembered the last two seasons. Carnations are showing the first signs of weakness usually apparent about this time, and minor quantities of top notch stock is procurable. A deluge of spring novelties is displayed, each grower sharing the honors for something choice and pleasing to offer the buyers. Judging from present appearances the Easter market will be amply supplied with the best assortment and also the best type of flowers ever shown on the local market. Plant growers are in the ascendency as is shown in the display of fine plants in every store.

NOTES.

John McFarland of North Easton is cutting from his usual stock of Ulrich Brunner roses, one of his leading specialties. This rose is entering the market at just the right time in the absence of American Beauty, and offers exceeding satisfaction.

Saturday was a holiday among the growers and although in the midst of the busy spring season, the time was well spent in attending the exhibition of the Music Hall growers.

John Cassidy of W. E. Doyle's Boylston street store is scheduled for jury work the next few weeks. B.

Boston Flower Market Annual Show.

The annual exhibition of the Boston Co-operative Flower Market was held March 20 in the spacious quarters of the organization and was a huge success. Promptly at 12 noon, the doors were opened to the public, the judges having completed their labors. A grand display of commercially grown flowers and plants, was tastily arranged on the platforms. The exhibition was easily viewed from all sides and thousands of people passed to and fro along the aisles commenting on the splendid stock. A distinct innovation, greatly increasing the interest in the exhibition, was the display of fancy specimens of up-to-date funeral emblems, of which there was a magnificent collection showing to advantage the combination with the artist's skill of the choicest of the season's blossoms.

The rose section occupied the center of the hall and here were found all the leading favorites of the day in prime condition. American Beauty, Killarney (pink and white), Richmond and My Maryland were the favorites in the order named, together with a collection of Bride and Bridesmaid of rare quality. Next in importance was the section devoted to carnations: this display brought together for comparison the finest types of present day varieties. Bay State, Albert Roper's recent origination, was the center of attraction and was in splendid form. John Barr of Natick showed a vase of Beacon that easily took first honors. The violet display had a large entry list. All the classes presented the closest competition and judgment was difficult. N. F. Comley carried everything before him in the sweet pea class and the sweepstake prize was awarded to this grower for winning the largest number of first prizes. Miscellaneous displays of cut stock and plants surrounding the attractions from the retail stores completed the exhibition.

Thomas Roland carried off the honors in the plant department. From the John Walker establishment at Salem an enviable assortment of choice novelties was greatly admired. John McFarland showed a vase of wonderful gardenias which was one of the greatest favorites in the entire show. R. E. Lassman was represented in this section with a vase of ranunculus. The exhibition was a credit to the organization and the thanks of the entire craft is extended to the committees so ably handling the details. The awards follow:

Medium Grade Roses,
$5.00, $6.00 and $8.00 per 100.
We have an extra good supply of medium grade stock, **Richmond, Killarney, Brides and Maids,** and can give you excellent value for your money. Try a shipment.

The Leo Niessen Co.
Wholesale Florists, 1209 Arch St., **Philadelphia, Pa.**

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants
American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.
—Send For Prices,—
W. H. Elliott, Brighton, Mass.

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The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

J. B. Murdoch & Co.
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All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.
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WHOLESALE FLORISTS.
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ABSOLUTELY THE BEST POSSIBLE SERVICE.

FANCY **Roses** FANCY **Violets**
Orchids, Gardenias.
McCALLUM CO., Inc. Pittsburg

ROSES.

Twenty-five Killarney.—Robt. Montgomery, first.

Twenty-five Richmond.—Robt. Montgomery, first.

Twenty-five Bride.—Robt. Montgomery, first; W. R. Morris, second.

Twenty-five Bridesmaid.—W. R. Morris, first; Robt. Montgomery, second.

Fifty American Beauty.—F. R. & A. N. Pierson, equal first.

Fifty Killarney.—W. H. Elliott, first.

Fifty Bride.—Montrose Greenhouses, first; W. R. Morris, second.

Fifty Bridesmaid.—W. R. Morris, first; Montrose Greenhouses, second.

Fifty of new rose, 1908 or 1909.—Waban Rose Conservatories, first.

CARNATIONS.

Fifty scarlet.—H. L. Sheed, first with Beacon; John Barr, second with Beacon.

Fifty dark pink.—Littlefield & Wyman, first with Lawson; John Barr, second with Lawson.

Fifty variegated.—John Barr, first with Variegated Lawson; M. A. Patten Co., second with Variegated Lawson.

A. Roper prize.—L. E. Small, first with Fair Maid.

One hundred any other color.—John Barr, first with Beacon.

John Barr's special prize for 100 Queen.—Thos. Capers, first.

Fifty white.—M. A. Patten Co., first with White Perfection; E. Cartwright, second with Lady Bountiful.

Fifty light pink.—John Barr, first with Winsor; Littlefield & Wyman, second with Enchantress.

Fifty crimson.—Wilfrid Wheeler, first with Harry Fenn; B. P. Winch, second with Harry Fenn.

One hundred flowers of a seedling not disseminated, T. J. Grey cup.—A. Roper, first with Bay State.

Fifty flowers of white seedling not disseminated.—M. A. Patten & Co., first with Genevieve.

Fifty flowers of crimson seedling not disseminated.—L. E. Small, first.

Fifty flowers of dark pink seedling not disseminated.—Peter Fisher, first.

Fifty flowers of light pink seedling not disseminated.—John Barr, first.

Fifty flowers of scarlet seedling not disseminated.—A. Roper, first.

Fifty flowers of variegated seedling not disseminated.—A. Roper, first.

VIOLETS.

One hundred Lady Campbell.—Lewis Smith, first; Lewis Small, second.

One hundred Marie Louise.—N. F. Comley, first.

One hundred any other double.—N. F. Comley, first.

One hundred Princess of Wales.—J. H. Newman, first; H. F. Woods, second.

Not less than five varieties H. E. Fiske Seed Co.'s cup.—N. F. Comley, first.

Wholesale Flower Markets

PHILADELPHIA, Mar. 24	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Mar. 24.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	3 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 2 50
Daffodils	2 00@ 2 50
Lilium Longiflorum	12 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50
Tulips	2 00@ 4 00
Violets, single	25
" double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, Mar. 24.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties
The finest in this Market.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

SWEET PEAS.

One hundred white.—N. F. Comley, first; L. E. Small, second.

One hundred pink.—N. F. Comley, first and second.

One hundred any other color.—N. F. Comley, first.

MISCELLANEOUS.

Twenty-five snapdragon.—F. L. Hardy, first; S. J. Goddard, second.

Twenty-five wallflower.—C. J. Harvey, first.

One hundred lily of the valley.—J. McFarland, first; A. N. Pierson, second.

Fifty marguerites.—E. J. Hearn, first; N. A. Hudson, second.

Group of commercial, foliage and flowering plants, A. H. Hews & Co. prize.—T. Roland, first.

Twenty-five pots cyclamens.—John Barr, first.

Floral basket.—Sidney Hoffman.

Centerpiece for table, H. M. Robinson & Co., prize.—H. J. Comley.

Bride's shower bouquet.—Penn.

Floral wreath.—J. A. Zinn & Co.

One hundred pansies.—C. W. Ward, first; N. F. Comley, second.

Novelty vase.—J. McFarland, gardenias.

Vegetables grown under glass, Hall & Cole cup.—C. Cummings.

The special sweepstake prize awarded to the grower who received the largest number of first prizes was awarded to Norris F. Comley of Lexington.

B.

ALBUQUERQUE, N. M.—Byron H. Ives, the pioneer grower here, is enlarging his greenhouse plant by the addition of 33,000 square feet of modern glass. He will also install a new 85 h. p. boiler and, with his increased facilities, he intends to grow more for wholesale as well as keeping his retail trade going. A carload of 18 tons of glass has already arrived on the ground, probably the largest order ever sent here. The work is to proceed right away.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Toronto, Ont.

WITH HIGHEST GRADE ARTISTIC WORK

Dillemuth FLORIST

Can be relied on to fill all mail, telegraph or cable orders.

438 Spadina Avenue.

Long Distance Phone Main 2409

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WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** 838 CANAL ST.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS,

Successor to Chas. W. Reimers'

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Telegraph Orders a Specialty. 218 W. 4th St.

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FRANK F. CRUMP,

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Only the Best **Dunlop's**

Canada's Best Known and Most Reliable Florist.

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We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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Our Motto—THE GOLDEN RULE.

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I. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable Cable address: "Daniels, Denver."

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Gude's

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Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL STREET,

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J.B. KELLER SONS,

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Always mention The American Florist when you order stock.

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1657-1659 Buckingham Place,
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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST
M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

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JULIUS BAER,
138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

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GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

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...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

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Write, Wire or Phone Your Orders to

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Regular discount allowed on all orders, either Plants or Cut Flowers.
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ATLANTA FLORAL CO.
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John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Anderson, S. C.

THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Steamship Sailings.

WEEK ENDING APRIL 3.

Mar. 30, New Amsterdam, N. Y.-Rotterdam.
Mar. 30, Kaiser Wil der Grosse, N. Y.-Bremen.
Mar. 30, Kronprinz Wilhelm, Bremen-N. Y.
Mar. 30, Perugia, Naples-New York.
Mar. 30, Caronia, Liverpool-New York.
Mar. 31, Haverford, Liverpool-Philadelphia.
Mar. 31, Lusitania, New York-Liverpool.
Mar. 31, Adriatic, New York-Southampton.
Mar. 31, Oceanic, Southampton-New York.
Mar. 31, Romanic, Genoa-Boston.
Mar. 31, Rhein, Baltimore-Bremen.
Apl. 1, Corinthian, Boston-Glasgow.
Apl. 1, Carpathia, New York-Trieste.
Apl. 1, La Touraine, New York-Havre.
Apl. 1, Dominion, Liverpool-Portland.
Apl. 1, Koenig Albert, Genoa-New York.
Apl. 1, Prinz Freidrich Wilhelm, N. Y.-Bremen.
Apl. 2, Victorian, St. Johns-Liverpool.
Apl. 2, Virginian, Liverpool-St. Johns.
Apl. 3, Sicilian, Glasgow-Boston.
Apl. 3, Caledonia, New York-Glasgow.
Apl. 3, Columbia, Glasgow-New York.
Apl. 3, Calabria, New York-Naples.
Apl. 3, St. Louis, New York-Southampton.
Apl. 3, St. Paul, Southampton-New York.
Apl. 3, Mauretania, Liverpool-New York.
Apl. 3, La Provence, Havre-New York.
Apl. 3, Vaderland, New York-Antwerp.
Apl. 3, Kroonland, Antwerp-New York.
Apl. 3, Cedric, New York-Liverpool.
Apl. 3, Patrica, New York-Hamburg.
Apl. 3, Moltke, Genoa-New York.
Apl. 3, Rotterdam, Rotterdam-New York.
Apl. 3, Gneisenau, Bremen-New York.

SYRACUSE, N. Y.—Mrs. Emily Rose Youell, wife of Henry R. Youell, superintendent of the Herald's Gardening Club, died of heart failure March 16, at the family home, 111 Lexington ave., aged 67 years. Mrs. Youell had been ailing some time with bronchitis, but her death came very unexpectedly. Mrs. Youell was born in England, the daughter of John Emily Hubbard, a noted veterinary surgeon. Mrs. Youell was married to Henry R. Youell 40 years ago. She is survived, besides her husband, by three daughters and a son. The family have the sincere sympathy of the trade in its bereavement.—B.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL. Western Union Code.

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59-61 Massachusetts Ave. for Commonwealth Ave.
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FRANK H. HOUGHTON
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Robert Kift,
1725 Chestnut Street.
Prompt and Careful Attention given to all Mail and Telegraph orders.

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We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. Phone 1912.

Owatonna, Minn.

Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

ERNEST BENARY, Erfurt, Germany, has issued a splendid new colored plate of his Beauty of Nice winter flowering stock in seven varieties.

SHENANDOAH, IA.—The Ratekin Seed Co. has announced it will erect a 3-story fire proof seed house 60x150 feet at a cost of $40,000 to $50,000.

LODI, CALIF.—The Haven Seed Co. is planning to use a new location which it considers one of the best districts for seed growing in the state, near Modesta.

FRENCH BULB prices for season 1909 will be indicated by the action of the association known as Syndicat de Defence des Interets Agricoles at its meeting about April 1.

THE New Hampshire seed law, just passed, is reasonable in that it touches no items under one pound and does not impose any prison penalty. It went into effect the day it was passed and some shipments have been held up in consequence.

THE D. Landreth Seed Co., Bristol, Pa., has been continuously in business since its foundation in 1784. The present representatives of the firm are Burnet Landreth, 1862; Burnet Landreth, Jr., 1889; S. Phillips Landreth, 1892, and David Landreth, 1909.

CHICAGO.—The onion set market is firmer with reds and yellows at about $1.75, and $2.75 to $3.10 for whites.—Contract prices on the board of trade March 23 for grass seed were noted as follows: Prime timothy, $3.80 (nominal), white clover, $15.50.—Visitor: H. Van Teylingen, representing Van Zanten & Co., Hillegom, Holland.

Favorable Clause in the New Tariff Law.

Sec. 7. That the owner, consignee, or agent of any imported merchandise may, at the time when he shall make and verify his written entry of such merchandise, but not afterwards, make such addition in the entry or such deduction from the cost or value given in the invoice or pro forma invoice or statement in form of an invoice, which he shall produce with his entry, as in his opinion may raise or lower the same to the actual market value or wholesale price of such merchandise at the time of exportation to the United States, in the principal markets of the country from which the same has been imported.

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

Specific Duty Opposed by Treasury Dept.

We have received from one of the best possible sources the following information, showing how, at the last moment, all the united work of the seedsmen in the country was blocked by action of the treasury department, in which that department made the misleading statement that there were 500 different varieties of garden seeds which made specific duty impractical. Thus the work of the seedsmen was turned down without time or an opportunity for rehearing or denial of such a misleading statement. The telegram reads as follows:

"Amendments defeated in committee by letter from treasury department received last day of the session stating specific duties impossible because there were more than 500 different varieties garden seeds. Will write fully."

Every American seedsman should now write to his representative and senator asking and insisting that the specific duty be put into effect in the new tariff. Perhaps the most effective work could be done by those seedsmen whose personal representative or senator is on either the senate or the house tariff committees; the lists are below.

Names of the Committee on Ways and Means in the House of Representatives:

Sereno E. Payne, Chairman.

John Dalzell.	Nicholas Longworth.
Samuel W. McCall.	Edgar D. Crumpacker.
Ebenezer J. Hill.	Champ Clark.
Henry S. Boutell.	Wm. Bourke Cockran.
James C. Needham.	Oscar W. Underwood.
Wm. A. Calderhead.	D. L. D. Granger.
Joseph W. Fordney.	James L. Griggs.
Joseph H. Gaines.	Edward W. Pou.
Robert W. Bonynge.	Choice B. Randell.

Names of the Finance Committee in the Senate:

Nelson W. Aldrich, of Rhode Island.
Julius C. Burrows, of Michigan.
Thomas C. Platt, of New York.
Henry C. Hansbrough, of N. Dakota.
Boise Penrose, of Pennsylvania.
Eugene Hale, of Maine.
Shelby M. Cullom, of Illinois.
John W. Daniel, of Virginia.
Henry M. Teller, of Colorado.
Hernando D. Money, of Mississippi.
Joseph W. Bailey, of Texas.
James P. Taliaferro, of Florida.

New Hampshire's Proposed Seed Law.

We present herewith the text of House Bill No. 396 of the New Hampshire legislature, designed to regulate the sale of agricultural seeds, introduced by Mr. Marden of Chichester, and referred to the committee on agriculture:—

Section 1. Every lot of agricultural seeds, including the seeds of cereals, grasses, forage plants, vegetables, garden plants and white pine trees, but not including those of other trees, shrubs and ornamental plants, which is sold, offered or exposed for sale for seed in bulk or package of one pound or more, within this state, shall be accompanied by a plainly written or printed guarantee stating first, its percentage of purity from foreign seeds and other matter, and, second, its percentage of vitality.

Sec. 2. Sellers or dealers in seeds may base their guarantees upon tests or analyses conducted by themselves, their agents, or by the secretary of the State Board of Agriculture or his agents; provided, that such tests or analyses shall be made in such a manner, and under such conditions as the said secretary may prescribe.

Sec. 3. The results of all tests or analyses of seeds made by the said secretary, together with the names and addresses of the persons from whom the samples of seed were obtained, shall be published annually in a bulletin by the New Hampshire College Agricultural Experiment Station, and biennially in the report of the State Board of Agriculture. The said secretary shall also publish from time to time in the Quarterly Report of the State Board of Agriculture equitable standards of purity and vitality, together with such other information concerning agriculture seeds as may be of public benefit.

Sec. 4. Whoever sells, offers or exposes for sale or for distribution, within this state, any agricultural seeds heretofore named in this act without complying with the requirements of sections one and two, or whoever, with intention to deceive, wrongly marks or labels any lot of agricultural seeds, including the seeds of cereals, grasses, forage plants, vegetables, garden plants and white pine trees, but not including those of other trees, shrubs and ornamental plants, as pertains to their percentage of purity and vitality, shall be punished by a fine not exceeding two hundred dollars for the first offense, and not exceeding two hundred dollars for each subsequent offense. Municipal courts and trial justices are hereby vested with original jurisdiction concurrent with the supreme judicial and superior courts, to try, and upon conviction to punish, for all offenses against the provisions of this act.

Sec. 5. The provisions of the four preceding sections shall not apply to any person growing, selling, offering or exposing for sale cereals and other agricultural seeds for food.

Sec. 6. The secretary of the State Board of Agriculture shall diligently enforce the provisions of sections one and four of this act, and in his discretion prosecute offenses against the same.

New Tariff Law—A Bad Feature.

The following paragraph applying to the administration of the customs act will increase the difficulties of the already overburdened importing seedsmen. This paragraph reads:

> The actual market value or wholesale price, as defined by law, of any imported merchandise which is consigned for sale in the United States or which is not actually sold and freely offered for sale in usual wholesale quantities in the open market of the country of exportation to all purchasers shall not in any case be appraised at less than the wholesale price at which such or similar imported merchandise is actually sold and freely offered for sale in usual wholesale quantities in the United States in the open market to all purchasers, due allowance by deduction being made for estimated duties thereon, cost of transportation, insurance and other necessary expenses from the place of shipment to the place of delivery, and a reasonable commission not exceeding 10 per cent if any of the same has been paid.

Some have explained this as applying only to consigned goods and not to goods actually purchased, but in the opinion of eminent attorneys this paragraph really applies to all importations made to this country which as the law says "are not freely offered for sale in usual quantities in the open market of exportation to all purchasers."

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS, MICH

C. C. MORSE & CO. 48-56 Jackson St., **San Francisco, Calif.**

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

O. V. ZANGEN, Hoboken, N. J.

It will be readily seen that, once this authority is given to the treasury officials, practically every shipment of garden seeds of the varieties coming to the American trade, for which naturally there is no open market in European ports of export, will by this paragraph be appraised and made to pay duty according to what the treasury officials may claim to be the "usual wholesale quantity price in the United States." Under this law no American seedsman can hope to import his seeds under a duty based on his real contract cost. Instead of amending the law to fit the contract conditions of the seed season and horticultural trade generally, the above paragraph only adds to the difficulties, making more contentions and differences of opinion possible.

To produce seeds under right cost conditions requires two years' cultivation and advance contract arrangements. They cannot be produced in a month or a day or a week as can articles of ordinary manufacture contemplated by the present law. Why not then in making the new Payne tariff bill make it fit the true conditions which horticulture demands and give the seedsman the benefit of the contract market prices according to the conditions of his contract crop to which he is as assuredly entitled as if he were a merchant handling products which could be produced by machinery in 30 days. The law can be made to fit these conditions. If it did, and the law was easily and plainly administered without any friction under specific duties, would it cost any reduction among the salaried employes of the treasury department? Even if it should, is that a sufficient reason for denying justice to the horticultural trade generally or for even making an attempt when the great growth of horticulture in this country demands that the old and impractical law as applied to it be done away with.

The Trading Instinct.

The enclosed clipping is from a Conway correspondent of Greenfield, Mass., Gazette and Courier. Conway is the village famed as the birthplace of Marshall Field and Wm. C. Whitney.

> Just received 50 bags of grass seed. It is rather more than I want myself. Would sell some of it at the right price. I guess it is good seed. The fellow whom I bought it of said it was. I don't believe he would lie about a little thing like grass seed. Try it. If it comes up over half mullein or straddle top bring it back and get your money. (That is if you pay when you get it.)—New York Sun.

[Hawley, the birthplace of Albert Dickinson, is about 11 miles from Conway.—Ed.]

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.
VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; 1/8-oz. $1.50 1/4-oz. $2.50; 1/2-oz. $4.50; 1-oz. $8.00.
VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; 1/8-oz. 60c.; 1/4-oz. $1.00; 1/2-oz. $1.75; 1-oz. $3.00.
Send for our Aster Book for Florists.
James Vicks' Sons, Rochester, N. Y.

Landreths' Seeds
BLOOMSDALE FARMS
BRISTOL, :: PENNA.
If you want Seeds for filling in, name varieties and quantities.

Seed Beans
F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

Skidelsky & Irwin Co.
SEEDS, BULBS AND PLANTS.
144 N. 7th St., PHILADELPHIA
KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

The Everett B Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of Double Branching Stocks is exceptionally true. About 90 per cent. Double Flowers
In colors..........1/8-oz. 60c; oz. $4.00
Pure white..........1/8-oz. 75c; oz. $5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

PLANT horseradish sets early and deep in good soil for results.

FROM Vancouver, Wash., growers report a great demand for greenhouse grown lettuce.

ALLENTOWN, PA.—A crop of tomatoes, valued at $10,000, was destroyed in a fire at the greenhouses of Daniel Kroninger, March 13. The fire started from a defective flue.

THE bulletin published by the New York Experimental Station at Geneva on "Potato Spraying Experiments in 1908" should be of interest to potato growers all over the country.

MANY growers who have not heretofore used it are coming to understand the value of lime as a sweetener of soil and as an agent to unlock other chemical constituents in the soil. Two to three tons per acre is a good dressing.

Notes in Season.

Parties who are interested in forcing rhubarb, asparagus and parsley should prepare stocks for future work. It takes several years to work up roots of forcing size of either rhubarb or asparagus, and all three crops mentioned do best by early seeding or the very first opportunity the ground can be worked. Asparagus and parsley are slow to germinate. A good plan is to prepare the seed for early germination, which should however only be attempted where one is sure to watch it carefully, otherwise it would be inviting disaster. About two weeks before we expect to sow, we place the seed into flats, water well, cover with cardboard, paper or burlap, sprinkle this covering and then cover with glass to prevent evaporation and also to exclude mice. Every day we stir the seds thoroughly and moisten if needed and thus bring them as near as we dare to the germinating point. When ready to sow, either expose for a short while to sun and wind, or mix with some dry substance so they will work in the seed drill. These seed flats should be placed in a uniform temperature, such as in a hotbed or under a greenhouse bench.

Asparagus can be sown deeply to advantage, say one and one-half inches to two inches to insure steady moisture. Parsley will be best at about one-half inch only, and rhubarb is very sensitive to covering. We prefer to drill rhubarb very shallow and expect the first rain to sprout it, as it comes up quickly. Among asparagus varieties, Palmetto easily leads. In rhubarbs, most markets demand the red-stalked varieties, such as Victoria and St. Martin's. For greenhouse use be sure to use the best triple curled parsley, as the plain is not decorative. In a cold spell if short of covering material for hotbeds and cold frames, do not forget that a very little hay, straw, or coarse manure scattered over sash is a wonderful protection and will often save the contents.

MARKETMAN.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums, **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Making Hotbeds.

ED. AMERICAN FLORIST:—

I made a hotbed some weeks ago in a rather exposed position following the directions of the late Wm. Scott in his "Florists' Manual." He says, "Shake the manure out as soon as it shows signs of heating, spread a layer of about four inches, tramp and water well, continuing to spread layers of four inches, tramp and water again till it is the required height, 18 inches or two feet." I had to confine my bed to the width of my frame but I placed two 12-inch boards to protect the bed. As the bed began to heat a high cold wind came along and cooled it off and it is no good. I have now another pile ready to spread and would like to ask you if tramping is necessary, or if one could shake the manure out and allow it to settle. Is it right to wet the bed down as it is being made? I see that you say that water will destroy the heat as readily as it will put out a fire, and understand by that, that no water should be used on the manure when making the bed. Your reply to these queries will be very much appreciated as also any further directions you can give.

P. T.

Michigan.

During our long experience with hotbeds, we have rarely found it necessary to use water on the manure; we may say never, if we used fresh barn manure, such as we get from the city barns. Sometimes we would use the coarse parts removed from mulches on strawberry beds, or winter-protection from shrubs, and when this is dry we would have one man hold the hose while the heap was thrown up, or turned. In no instance have we ever soaked manure as it was put into the frame. If wet manure does heat well, it will surely cause excessive moisture in the bed later on, which is to be avoided. Having been uniformly successful with hotbeds, we have great faith in our methods.

As pointed out in our recent article, after a hotbed is made, it should immediately be covered with sash, and this means tight sash. If the weather is cold, better use mats, shutters or litter on top of sash to prevent any loss of heat. Thus treated, a bed will heat up thoroughly in 48 hours, so much so, that it will be necessary to ventilate or the heat and moisture may warp the sash badly. Tramping a bed is a good practice because it at once shows us any soft spots; further, it prevents to some extent fire-fanging, as loose manure will heat too violently. If "P. T." used 6-foot sash, and his bed was no wider and exposed all around to high cold winds, success is doubtful. If such a bed can be built against some building, or tight board fence, it will do well. We like to build a board fence wind-break on the north side of hotbed sites, then start the first bed against this fence and build one against the other so the whole block is warm.

MARKETMAN.

VEGETABLE PLANTS

For Transplanting. 1000

Cabbage, Wakefield and Succession.....$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100: 3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain.....40c per 100 3 00
Chinese Giant and Cayenne...50c per 100
Tomato, Earliana, Chalk's Jewell, and Early June Pink.....30c per 100 2 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 39 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

Muskmelon Seed at $1.00 per lb.

EMERALD GEM,

(Credit to any Seedsman to handle this strain.)
Of a fine quality and the desirable size about 30 to the bushel.
Cole's Early Watermelon, at 30c, per lb.

FREEMAN HURFF, Swedsboro, New Jersey.

THE STRAWBERRY BLIGHT

Its Cause and Cure.

How to more than double the yield of crop without increasing the cost of production. A great discovery. Price of book $2.00; worth $25.00.

WM. C. TRIMBLE, Princeton, Ill.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points March 20 were as follows: New York, cucumbers, 60 cents to $1.25 per dozen; lettuce, $1 to $1.50 per strap;

Seasonable Flower Seeds

10 per cent special CASH DISCOUNT. On orders over $2 for Flower Seeds if cash is enclosed. **10 per cent.** The discount does not apply to Asparagus Seed. Cash discount on this is 2 per cent.

Single Spray Asparagus Plumosus Nanus.

ASPARAGUS PLUMOSUS NANUS, northern greenhouse grown seed. Per 100 seeds, 50c; 250 seeds, $1.00; 1,000 seeds, $3.50; 5,000 seeds, $16.25.

ASPARAGUS SPRENGERI, 100 seeds, 15c; 250 seeds, 25c; 1,000 seeds, 75c; 5,000 seeds, $3.25.

ALYSSUM VAUGHAN'S LITTLE GEM, best dwarf strain in the world. Tr. Pkt., 10c; oz., 30c; ¼ lb., 75c.

ASTER, QUEEN OF THE MARKET, white, pink, crimson, scarlet, light blue, dark blue, each, trade pkt., 10c; ¼ oz., 20c; oz., 50c.

ASTER, CARLSON (Early Flowering Branching), white, rose-pink, lavender, Marquis-pink, violet-blue, daybreak pink and mixed, each, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

ASTER, BRANCHING, white, rose-pink, lavender, purple, dark red and daybreak pink, each, trade pkt., 10c; ¼ oz., 30c; oz., $1.00.

ASTER, VAUGHAN'S UPRIGHT BRANCHING WHITE, re-selected stock, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

CANDYTUFT, GIANT HYACINTH-FLOWERED (Improved Empress), trade pkt., 5c; oz., 20c; ¼ lb., 50c.

CASTOR BEAN, Zanzibar Mixed, trade pkt., 5c; oz., 10c; ¼ lb., 20c.
Zanzibar Enormis, trade pkt., 5c; oz., 15c.
Panormitanus, new, trade pkt., 10c; oz., 25c.

CENTAUREA CYANUS, double blue Cornflower, trade pkt., 10c; ½ oz., 30c; oz., 60c.
Double white Cornflower, trade pkt., 10c; ½ oz., 40c; oz., 75c.

COBEA SCANDENS, purple, trade pkt., 10c; oz., 30c; ¼ lb., 90c.

COSMOS, EARLY FLOWERING WHITE OR PINK, northern grown, each, trade pkt., 10c; oz., 60c.

DIANTHUS HEDD, SNOW QUEEN, best double white, trade pkt., 10c; ½ oz., 30c.

MOON VINE, white seeded, trade pkt., 10c; oz., 30c.

MIGNONETTE MACHET, selected stock, trade pkt., 10c; ½ oz., 25c; oz., 50c.

MIGNONETTE GOLIATH, extra fine, trade pkt., 15c; ¼ oz., 25c; oz., 80c.

NASTURTIUM, VAUGHAN'S SPECIAL MIXTURES, tall or dwarf, each, oz., 10c; ¼ lb., 20c; lb., 60c.

PHLOX DRUMMONDI, large-flowering, white, pink, scarlet, crimson, yellow, each, trade pkt., 10c; ¼ oz., 20c; oz., 60c. Mixed, trade pkt., 10c; ¼ oz., 15c; oz., 50c.

PETUNIA, LARGE FLOWERING SINGLE, "Vaughan's Best" mixture, 1,000 seeds, 50c.

PRIMULA OBCONICA GRANDIFLORA, "Ronsdorf strain," white, rosea and mixed, each, trade pkt., 50c; 1/32 oz., $1.00.

STOCKS, GIANT PERFECTION (cut and come again), white, sky-blue, pink, scarlet, dark blue, each, trade pkt., 25c; ⅛ oz., 40c; oz., $2.50.

STOCKS, PRINCE BISMARCK, new, white, fine for cut, trade pkt., 25c.

STOCKS, WHITE COLUMN, extra, trade pkt., 25c; ⅛ oz., 60c.

VERBENA, "VAUGHAN'S BEST" MIXTURE, trade pkt., 25c; ¼ oz., 50c; oz., $2.00.

Sweet Peas

If to go by mail add 8c per pound for postage.

WHITE—White Spencer, regular stock, oz., 15c; ¼ lb., 40c; lb., $1.50.
Nora Unwin, oz., 10c; ¼ lb., 25c; lb., 80c.
Dorothy Eckford, ¼ lb., 10c; lb., 30c; 5 lbs., $1.25.
Dorothy Eckford, re-selected, oz., 50c.

LAVENDER—Lady Grisel Hamilton, ¼ lb., 10c; lb., 25c; 5 lbs., $1.10.
Mrs. Walter Wright, ¼ lb., 15c; lb., 45c.

LIGHT PINK—Bridesmaid, ¼ lb., 15c; lb., 40c.
Gladys Unwin, oz., 10c; ¼ lb., 20c; lb., 50c.
Countess Spencer, var., oz., 15c; ¼ lb., 40c; lb., $1.25.

ORANGE PINK—Button's Pink, ¼ lb., 15c; lb., 50c.
Helen Lewis, ¼ lb., 20c; lb., 60c.
Evelyn Byatt, ¼ lb., 15c; lb., 40c.

RED—King Edward VII, ¼ lb., 15c; lb., 40c.
Queen Alexandra, ¼ lb., 15c; lb., 50c.

YELLOW—Primrose Spencer, oz., 15c; ¼ lb., 35c; lb., $1.25.
Hon. Mrs. Kenyon, ¼ lb., 10c; lb., 30c.

PINK AND WHITE—Florence Frazer, ¼ lb., 15c; lb., 40c.
Blanche Ferry, ¼ lb., 10c; lb., 20c.

For other varieties, not mentioned, see our **"Book for Florists,"** sent free to commercial florists.

New York. **Vaughan's Seed Store,** Chicago.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Wanted To contract a few thousand 3-in. pot grown Dahlia roots this summer, party having experience, please quote. Address
Key X74, care American Florist.

Wanted **Ipomoea Palmata or Mexican Morning Glory.** Large size roots. State quantity you have to offer and price.
VAUGHAN'S SEED STORE,
Chicago. New York.

mushrooms, 20 cents to 50 cents per pound; mint, 35 cents to 45 cents per dozen bunches; radishes, $2 to $3 per 100 bunches; rhubarb, $2 to $5 per 100 bunches; tomatoes, 5 cents to 15 cents per pound. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $3.50 per hamper; mushrooms, 40 cents to 85 cents per pound; tomatoes, 15 cents to 25 cents per pound; radishes, 40 cents to 60 cents per dozen bunches; asparagus, $2.75 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 cents to 75 cents per dozen; rhubarb, 6 cents to 10 cents per pound, extra fancy, 14 cents; French endives, 25 cents to 40 cents per pound.

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List.—

The Conard & Jones Co.

WEST GROVE, PA.

PHILADELPHIA, PA.—David Joyce, who was well known throughout Germantown as an expert gardener, passed away March 15, at his home, No. 6333 Baynton street, at the age of 72 years. He had long suffered from heart disease. Mr. Joyce was the man who laid out the grounds at Willow Grove and was known to hundreds of old Germantown residents.

VAN ZANTEN BROTHERS

Royal Netherlands Bulb Nurseries and Export Trade.

HILLEGOM, HOLLAND.

Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA, care of Messrs. Maltus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

Those lovely pink tints have increasing call.
Florists' need the best.

VIRGINIA MAULE,

Divided roots, 50c each; Clumps, $1.00 each.
Strong plants, $35.00 per 100.
Send for trade list of New Dahlias.

PEACOCK DAHLIA FARMS,
Williamstown Junction, N. J

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

VISITED CHICAGO.—J. W. Maher, Devil's Lake Nursery, Devil's Lake, N. D.

FUR FARMS are recommended for Canada as a means of conserving timber lands and forests.

TROY, O—The Southwestern Nursery Co. has been incorporated with capital stock $10,000. L. A. Coppock, N. D. Coppock, C. M. Redmond, C. N. Peters and R. H. Gibson are incorporators.

QUITE a number of testimonials from users of the V. I. fluid and other sprays made by Wm. Cooper and nephews, Chicago, have reached us, showing the very satisfactory results obtained by their use.

IN a heavy soil it is generally acknowledged that hybrid perpetual roses do better than teas or Bourbons, these preferring a lighter soil. In all cases it should be well drained as roses dislike "wet feet."

ACCORDING to the report of the chief inspector of the Division of nursery and orchard inspection, of Ohio, the San Jose scale is still the most destructive insect pest to nursery stock, fruit, shade and ornamental trees in the state. Last season, owing probably to extended drought, it multiplied more rapidly than ever before since it has been under observation by the department.

MEN who know the culture of the plants they handle, can write or speak of them clearly and convincingly and are also willing to impart their knowledge to others, are only too scarce. Such an one is Geo. D. Leedle of Springfield, O., as indicated by his paper, read at the recent Buffalo show, and which appears in this issue. Nurserymen and others devoted to the rose will find it very interesting and instructive.

THE blue rose may not be an accomplished fact but Ellwanger & Barry of Rochester, N. Y., are offering Veilchenblau (violet blue), a seedling from Crimson Rambler that is hailed by German growers as the forerunner of a genuine blue rose. The flowers are described as reddish pink at first, then purple, amethyst and, finally, steely blue. The plant is vigorous and hardy and the yellow stamens are said to show up in strong contrast to the petals.

THE members of the Holland Nurserymen's Union are protesting bitterly against the proposed increase of duty under the proposed new rates, claiming that the higher rates actually mean an assessment of 100 per cent on many items, running up for some qualities nearly 300 per cent of the present invoice value. They mean particularly conifers, shrubs above two feet, etc. They say: "Taxing trees and conifers on the thickness of the stems seems an oddity." The unpacking and measurement of the different trees for fixing the duty would mean an immense amount of work, loss of time and possible loss of plants by decay or drying out.

American Association of Nurserymen.

ANNUAL CONVENTION AT ROCHESTER, N. Y.

The thirty-fourth annual convention of the American Association of Nurserymen will be held June 9 to 11 at the Hotel Seneca, Rochester, N. Y. Reduced railroad rates (fare and three-fifths) have been secured from all parts and as the meeting is to be held in the oldest and largest nursery district of the United States it is safe to prophesy a very interesting and successful meeting, for the Rochester nurserymen and citizens can be depended upon to do all in their power for their visitors' entertainment. It is typical of the association to read that the general reception committee is composed of "every nurseryman in western New York."

It is proposed to hold one session only each day, from 9 a. m. till 12:30, thus allowing ample time for the many points and things of interest to nurserymen in and around the city to be seen. The manager of the Hotel Seneca is evidently anxious to do all in his power to make the members comfortable and is giving free of charge a room for the secretary's use, also the large ball room for the meetings and the use of any other rooms they have. Meals are served on the European plan but these and the cost of rooms will not average higher than the usual American plan, especially when friends are willing to share rooms. Ample space for exhibits is provided by the rooms mentioned above and the association wishes it to be widely known that it invites exhibits of tools, implements and everything else used by nurserymen as well as stock. Apply to Thos. B. Meehan, Dresher, Montgomery county, Pa., chairman of the committee on exhibits, for space and to Geo. C. Seager, secretary of the association, for other business details.

American Ass'n. of Park Superintendents.

As announced in our telegraphic report of the Buffalo meeting last week, the American Association of Park Superintendents decided on Seattle, Wash., as the meeting place in August next, but the last day, August 12, will be spent in Tacoma. The following made application for membership: Wm. I. Hock, Reading, Pa.; John Berry, Colorado Springs, Colo.; H. B. Filer, Buffalo, N. Y.; The Board of Park Commissioners, Winnipeg, Man. All were recommended favorably for the next annual meeting.

Secretary-Treasurer Mulford read a report, showing that there were three honorary members and 103 active members at the last annual meeting since when three members have resigned and one, A. Pinoteau of La Fontaine park, Montreal, Que., has died. The treasurer's report showed $294.10 collected and $402.23 expended, and a balance of $60.93 on hand. The annual bulletin and report have been printed and copies of the latter sent to the commissioners in all cities where there are members. Nearly 150 copies were sent other superintendents with a view to interesting them. The report was adopted and the president and secretary-treasurer were authorized to push the canvas for members. J. W. Thompson, Seattle; Theo Wirth, Minneapolis, Minn.; President John W. Duncan, Boston, Mass., and Secretary-Treasurer Mulford, Harrisburg, Pa., were appointed a committee of arrangements for the Seattle-Tacoma meeting. A vote of thanks was extended to the Buffalo Board of Park Commissioners and to John F. Cowell for the entertainment so courteously extended to the executive committee.

Rochester Nurserymen Win.

The public service commission has ordered the American Express Co. to provide a general collection and delivery service for all parts of the Twenty-first ward of the city of Rochester, N. Y., from March 15 to May 1, inclusive, and from September 15 to November 1, inclusive, of each year. The order became effective March 15. The Twenty-first ward of the city has a large number of shippers of nursery stock who contended that they were not provided with collection and delivery service, whereas a number of nursery stock producers located in other parts of the city at as great or approximately as great a distance were given service. This is the first matter in which the commission has made an order requiring service beyond the limits designated by the express companies.

Landscape Gardening.

COURSE AT THE UNIVERSITY OF ILLINOIS.

Two years ago the University of Illinois established a four-years' course in landscape gardening which is now well on its feet and, Professor Wyman thinks, it has reached the stage where it can safely appeal to the interest and co-operation of the friends of landscape gardening in the state. The instructors would be glad of suggestions offered and also to answer any questions in reference to it. The course comprises work with drawing and water colors, design and perspective, landscape materials, trees, shrubs, etc., with their propagation, handling and enemies, botany, engineering and other subjects.

It is proposed to correlate with this a more purely horticultural course for those who do not wish to go into landscape design but desire to execute or maintain landscape work as superintendents and gardeners or to cultivate the material as nurserymen. The course would be based on soil study through chemistry and agronomy and of trees, shrubs and perennials together with their botany, evolution, propagation, culture and enemies, fruit and greenhouses. Elementary landscape design, free hand drawing and water colors are also included.

New Ordinance to Guard Chicago Trees.

The city forester, the new official who is to be arbiter of the city's shrubbery and devise new sartorial designs for Chicago treedom, has his duties defined for the first time in an ordinance drafted by Howard W. Hayes, assistant corporation counsel. Once the new office begins operations not a tree can be planted or removed from outside the building line without his permission and he will have absolute power to dictate how they shall be trimmed.

The new official is to be under the jurisdiction of the small parks commission. He will receive a salary of $2,000 a year and the property owners are not to pay any fees for permits or his services. Under the ordinance trees cannot be planted in the street closer together than 25 feet. They also must be at least two feet from the established sidewalk line. The hitching or tying of horses or other animals, or the pasting or tying of bills or other articles on trees is prohibited. Salt water must not be

thrown on tree banks, and a special clause directs the gas and other companies to repair any leaks in pipes which might affect trees. When new buildings are being erected, guards are required to protect the trees. Dumping of stone or cement around their bases at any time is prohibited. Fines of from $5 to $100 for each offense are provided for violating any provisions of the ordinance.

Cannot Ship Stock.

Nurserymen in Nevada county, California, are getting their troubles. The county has no horticultural commissioner and the express company refuses to accept for transmission any nursery stock as a consequence, fearing complications with the law should any nursery shipments prove to be infected or diseased in any way. Orders have been placed with local nurserymen, who are unable to ship their product, owing to this ruling. Were there a commissioner to inspect all nursery stock and pass it as fit for shipment, matters would be entirely different. As it is, the local growers are losing considerable money. They are debating sending to Sacramento for a deputy commissioner to come here and inspect the nurseries, that they may be enabled to fill their orders.

Hamamelis Mollis.

Among the many beautiful winter-flowering shrubs there is probably none to excel hamamelis, commonly known as wych hazel. There are several beautiful varieties, but none to excel or even equal the above Chinese species. We have a plant here between five and six feet in height, well proportioned and literally wreathed with its attractive flowers, which forms a most conspicuous object in the shrubberies. It began to open its showy flowers the first week in January, and the severe frosts which we have experienced have not appeared to injure it in the slightest. Though slow growing, it has done remarkably well since planted here on our stiff, retentive soil in a position fairly southwest, and no one who is interested in beautiful shrubs, especially for flowering at this season, should fail to add it to their collection.—The Garden.

New Florida Fruit.

One of the coming new fruits that will add to the reputation of Florida is thus described by the Eustis Lake Region: "The new fruit, Tangelo, was shown the editor this week by Frank Savage, who has propagated it, the tree having this year 19 of the fruit. It is a cross between the pomelo and tangerine. The flavor is like the grapefruit, and the skin or rind like the tangerine. Great things are expected of it." The citrus fruits of Florida are capable of further hybridization, producing new fruits, but they can hardly be improved on for flavor.—Jacksonville Times-Union.

UP-TO-DATE

Azaleas and Rhododendrons
WITH
JEAN BRACKE,
LOCHRISTY, near Ghent, BELGIUM.
Catalogues free on application.

American Everblooming Hydrangea.
Strong field-grown plants, 15 to 20 inches.
$2.50 per doz. $15.20 per 100.
Berberis Thunbergii, 1 year and transplanted.
Amoor River Privet Japanese Privet 1½ to 2½-ft.
California Privet 1 to 2½-ft.
Lists Free
THE E. Y. TEAS CO., Centerville, Ind

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft.	1.75
2½ to 3 ft. high	2.00
	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds 18 to 24 in. high	$ 75.00
12 to 14 buds. 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00

	Per 100
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better	$100.00 per 1000 $11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

THE STORRS & HARRISON CO., Painesville, O.

PRIVET DWARF CHINESE
Fine bushy stock, 3 to 4 ft.,
$15.00 per 100.
We have several thousand **SPECIMEN SHRUBS** of best Spireas, Privet, Honeysuckle, Lilacs, Elder, Forsythia, and many others for immediate effect.
VAUGHAN'S SEED STORE, P. O. Box V, CHICAGO

ROSES
We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige Mme. Plantier, Alfred Colomb, Perle des Blanches Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.
Tausendschon the great new climber $20.00 per 100
Crimson Baby Rambler 16.00 per 100
Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.
Roses, Dahlias and Cannas a specialty.
Catalogue free.
The Dingee & Conard Co., West Grove, Pa.

Notice to the Trade
We beg to acquaint the trade that our
MR. RENS
will arrive in New York about March 20th next to solicit business for our renowned nursery goods. His address will be
Care Maltus & Ware, 14 Stone St., New York.
H. den Ouden & Son,
The Old Farm Nurseres,
Boskoop, Holland.

Violet Blue Rose
A Remarkable Novelty.
The New Rambler (Violet Blue), hailed by the German rose growers as the forerunner of a genuinely cornflower blue rose, is a seedling of Crimson Rambler, very vigorous and hardy. For descriptions of this great novelty, as well as many others, send for Booklet.
ELLWANGER & BARRY
Mount Hope Nurseries
Box Q, Rochester, N. Y.

LARGE TREES.
OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

Bay Trees, Boxwood, Palms, Araucarias and other Decorative Material.
Evergreens, in all choicest varieties: **Roses,** Dwarf Climbing Tree and Ramblers: **Clematis,** and all other Vines and Climbers: **Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.** We shall be pleased to give special prices on lists. Ask for **Wholesale Catalog.**
Bobbink & Atkins, Nurserymen and Florists Rutherford, N.J.

SPECIAL OFFER
Tree and Shrub seeds, especially Tulips, Poplars, Calycanthus, Red Bud, Sweet Gum, Witch Hazel, etc. at special prices to close.
J. H. H. BOYD, McMinnville, Tenn.

6000 Swiss Stone Pine Seedlings, 3 and 4 yrs.,
2000 Swiss Stone Pine, 6 to 8-in transplanted and larger sizes. 1000 Mugho Pine, 6-in. high 6-in. broad, twice transplanted round and compact and larger sizes. Twice transplanted Engleman Spruce 9 to 12 in twice transplanted heavy and larger sizes. All grown here.
Send for Wholesale Catalogue.
JACKSON'S NURSERIES, Portland, Me.

ARBOR VITÆ
(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)
Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,
Price List Free on Demand.

For Best Results Advertisers should mail new advertisements and changes so as to reach us on Mondays.

Announcement.

We beg to announce we will grow and disseminate the new seedling Carnation **MARY TOLMAN,** originated by A. E. Hunt, Evanston, Ill.

MARY TOLMAN is a new light salmon pink, of a somewhat warmer tone than Enchantress,, and does not fade on the edge of the petals, having a clear, even shade all over the flower, which measures from 3 to 3½ inches, although 4inch flowers are very common. The stem is long and stiff, holding the flower perfectly erect. The calyx is very strong, and, as a producer, it comes early, is very free and continuous.

Orders booked now for January 1910 delivery: $12.00 per 100: $100.00 per 1000.

A. E. HUNT & CO., Evanston Ill.
HUNT BROS., Park Ridge, Ill.

Chicago Carnation Co.
JOLIET ILL.

St. Louis.

GOOD PRICES OBTAINED.

Trade has been slow all week, according to reports from retailers but the wholesalers have no cause to complain as stock has brought good prices and but little has gone to waste. Carnations have held up 2½ to 5 cents and good roses 6 to 10 cents. Sweet peas are improving daily and a fine crop can be expected for Easter; in fact, fine crops of both roses and carnations are due. If cool weather continues this will help bulbous stock as a heated spell would probably curtail the supply for Easter and stiffen up prices considerably on carnations and roses. A good supply of lilies and other plants is looked forward to. All the principal retailers have fine window displays in which bulbous stock, fine flowering plants and cut flowers in great variety are used with good effect.

NOTES.

Some very fine carnations and roses are coming to C. A. Kuehn from Canfield & Belle Miller of Springfield, Ill., also a good supply from Fred. Ammann of Edwardsville.

Arthur Ellison of the Ellison Floral Co. returned from Chicago Monday after making heavy plant purchases for the Easter trade.

The spring flower show opens this week and all hands are busy and anxious to make it a success.

Henry Baer of Peoria, Ill., is sending very fancy stock to H. G. Berning which brings top prices.

F. C. Weber, Jr., left for Chicago on a business trip.

Will Osseck is still walking very lame.

W. F.

GREENWICH, CONN.—The Bridgeport sheriff attached the $18.000 Renault automobile and other goods of James Everard of New York on a florist's bill for $1,240. The deputy sheriff started a parade of the automobile and several carriages through the village, towed by two teams, but was stopped by Mr. Everard's attorney, who gave security for the goods until a surety bond could be made out. The bill was incurred for a party that took place on December 1. The house was elaborately decorated by McMillen. When the bill was presented the price was considered exorbitant. Mr. McMillen's firm turned the bill over to a collector who refused to make any terms except for the full amount of the bill.

Gladioli. Not the largest stock, but as good as any.
Iris Germanica, Madeira and Cinnamon Vines.
The argest and best stock in the country.
Lilies, Hyacinthus Candicans, Spotted Callas, Oxalis, Millas, Besseras, etc.
In fine bulbs.
Iris Kaempferi and other Hardy Plants.
Price List on application.
E. S. MILLER,
Wading River, Long Island, N. Y.

50,000 PANSIES. 50,000
JENNINGS' STRAIN.
Large flowering, fancy colors extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud 1.00
Strong plants bloom in April ..... Per 1000. $5.00
Smaller size plants ..... Per 1000. 4.00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.
E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**
Grower of the Finest Pansies.

LARGEST STOCK OF ALL
Belgian Plants
AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.
LOUIS VAN HOUTTE, PERE
GHENT, BELGIUM.

40 000
Var. Vincas
Very strong. $1.00 per 100: $8.00 per 1000. Express prepaid.
C. HUMFELD, Clay Center, Kans.

WICHITA, KANS.—Chas. P. Mueller is tearing up his place preparatory to a complete rebuilding, refurnishing and redecorating. The interior decorations are to be very ornate, old Mission ceilings and panelled walls. A conservatory at the rear is also to be added.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns. Boston 4-in. pots, $1.50 per doz., $10.00 per 100; Boston, 3-in. pots, $4.00 per 100; Whitmani, 3-in. pots $5.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100.
Cannas, King Humbert and Mt. Blanc, 3-in. pots, $5.00 per 100.
Dracena Indivisa, 5-in. pots $2.00 per doz.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots $5.00 per 100
Clematis, large flowering varieties, dormant plants. $15.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
Ficus Elastica, 6-in. pots, 25c each.
ROOTED CUTTINGS from soil, $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem), Coleus (Verschaffeltii and Golden Bedder), Alternantheras, 4 varieties, 50c per 100, from sand.
Carnations. R. C., from soil, $2.00 per 100—Pink: Enchantress, Dorothy; scarlet: Robt. Craig, Elbon; white: Flora Hill, B. Market.—Winsor, $3.00 per 100.
Hyacinths, red, white and blue, first size bulbs, just right for Easter, $10.00 per 100.
C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

Chrysanthemums
New and Old, Large and Small.
Aster Seed
Early, Midseason and Late.
None better.
Elmer D. Smith & Co.
ADRIAN, MICH.

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo. S. Kalb, fine early: Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset, Jeannie Nonin, October Frost, Early Snow, Angele Laurent.
Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean, Pink Ivory Rosette.
Yellow—Major Bonnaffon, Cremo, Robt. Halliday, "Baby," small yellow of the button type.
50,000 Rooted cuttings ready Send for prices.
WM. SWAYNE, Box 226, KENNNETT SQUARE, PA

Always mention The American Florist when you order stock. : : : :

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		5.10	45.00
ENCHANTRESS		3.00	25.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		5.00	45.00
RED. Per 500.			
O. P. BASSETT	$35.00	1.50	8.00	60.00
ANDREW CARNEGIE			6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		5.00	45.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants, 2½-inch pots, $5.00 per 100 additional.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

Apple Blossom **Wanoka**

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100: $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,

BARNEVELD, NEW YORK.

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.

Prices on larger lots on application.

R. Witterstaetter. Station F., **Cincinnati, O.**

LAPAGERIA HINTS.—Lapagerias and, without doubt, many other good things for house and garden are not at all grown to the extent their merits entitle them to, and all because their perpetuation is difficult. Lapagerias seldom produce vital seeds, are hard to propagate by either cuttings or layers and exasperatingly slow in running up to numbers by oft repeated division. Now a method is pointed out by one who has practiced it for years with unvarying success, that in point of expediency excels all other modes of propagating lapagerias and plants of like nature. It is to cut pretty firm but not too hard canes of top growth into pieces of about a foot in length, to remove the leaves, to bend it so as to form a spiral nicely fitting in a flower pot and held there by being at every point in close contact with the inner walls of the pot and leaving a hollow space clear in its center, which is then filled up with sandy soil and given a good watering. The so stocked pots are stood over bottom heat or plunged in the sand or other material of the warm propagating bed, are kept moist and with the advent of sprouting growth around their rims are placed nearer to the light and within the reach of fresh air, until the growth is strong enough to be separated into single plants and transferred to more suitable quarters.

Carnation Cuttings and Plants

READY MARCH DELIVERY

Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ...$10.00 per 100, from sand

Mrs. J. C. Vaughan, from 2½-in. pots,.....$12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, **Joliet, Ill.**

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio

New Carnation **Lucille**

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convineed that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

PETER FISHER

Ellis, Mass.

Send for Price List of Carnations.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan $12.00 per 100; $100.00 per 1000.

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,

Madison, New Jersey

Send Your Advertisements Early.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-ih pots, $2.50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in. $3.00 per 100; 3-in., $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-in., $2.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Coleus, red and yellow; **Cigar Plant; Scarlet Sage** (Salvia). Bonfire, 2-in., $2.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newport, N. J.

Neph. Whitmani

2½-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

GET YOUR ORDER IN FOR EASTER PLANTS

Lilies, Spireas, Azaleas, Hydrangeas, &c., &c.
Will ship Lillies in paper pots so they will reach you in fine shape. All will be in for Easter. Ask us to send you our Soft Wooded plant list. **Dreer's Fancy Petunias. Fine Fuchsias, Salvia Zurich, Geraniums, etc., etc.**

GEO. A. KUHL, PEKIN, ILL.
Wholesale Grower.

ROSES

Summer grown; winter rested; on own roots.
See column adv. and prices, page 399, March 20.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

Grafted Roses

ON SELECTED MANETTI

Clean, healthy wood. Grown especially for grafting

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100. ***Rhea Reid,*** $15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

Jackson & Perkins Co.
NEWARK, NEW YORK

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.
Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond.
Rose pots, $15.00 per 100; 3½-in. pots $18.00 per 100.
Brides, Bridesmaids, Golden Gates, Kaiserin, La France,
Rose pots, $10.00 per 100; 3½-in. pots $15.00 per 100.

OWN ROOTS

Rhea Reid, Chatenay, Richmond, Killarney, American Beauty.
3-in. pots $9.00 per 100; 4-in. pots $12.00 per 100.
Brides, Bridesmaids, Perle, La France,
3-in. pots $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Minnesota State Florists' Association.

The regular monthly meeting was held at the hall on Snelling avenue, St. Paul, March 16. J. M. Underwood of Lake City, one of the directors, and C. N. Cosgrave, secretary of the State Fair association were present, also G. M. Reburn, of Vaughan's Seed Store, Chicago. O. J. Olson of the flower show committee reported the laying of the matter before the St. Paul Institute of arts and sciences and the favorable attitude shown by that body. At his suggestion the president was authorized to appoint two additional members to the committee, these to be chosen from Minneapolis. E. Nagel, of the State Fair committee reported progress and outlined a plan for distributing the premiums. A. S. Swanson made a minority report and offered a resolution requesting the members to abstain from making exhibits at the fair until better facilities can be had for staging and displaying exhibits. After a heated discussion in which the fair managers claimed their hands were tied in the matter the resolution was lost.

Mr. Frasier of the State Experimental Station gave a very interesting talk on fertilizers and was accorded a hearty vote of thanks for same. The judges awarded prizes to exhibitors as follows: Honorable mention to Hans Rosacker on Princess of Wales violets scoring 79 points; and to E. Nagel & Son on Primula obconica scoring 79 points. L. Boeglin of the Park greenhouses exhibited Primula denticulata grandiflora, a very pleasing flower for outdoor culture. The association adjourned to meet April 20.

S. D. DYSINGER, Sec'y.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W DAVIS,
225 W. 16th St., DAVENPORT, IOWA

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high .....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high .....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each, $7.50 per doz.
Cash with order.

WALTER W. COLES, Kokomo, Ind.

Up-to-Date Directory

Giving all the Country's

Florists
Seedsmen
Nurserymen

PRICE $3.00.

The Hyde Park Rose Co.

Wishes to inform the trade that they will be able to supply

Only 12,000 More Plants of Their New Taft Rose

and wishes all those desiring stock of this rose to place their orders as soon as possible. Good strong plants from 2-inch pots at **$15.00 per 100 straight; no reduction in lots of 1000.** Address all mail to

THE HYDE PARK ROSE CO., Wasson Ave. and McCormick Road, **Hyde Park, Cincinnati, Ohio**

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS. CARNATIONS**, for fall delivery. **SMILAX. VIOLETS.**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

Chrysanthemum Robinsoni.

This chrysanthemum is one of the prettiest additions to the group of herbaceous marguerites. We have recently spoken on several American varieties about which a lot of noise has been made, says the Revue Horticole. In Europe, too, new remarkable seedlings have been obtained of which unfortunately the exact parentage is not always registered. Such is the case with Chrysanthemum Robinsoni. It is more probable that it is a descendant from Chrysanthemum maximum, the prettiest of its kind. The variety in question is very closely allied to C. laciniatum and C. filiferum but much superior in regard to its beauty and size of flowers. The petals are split, laciniated and slightly fringed which gives the flower a very elegant appearance. Cayeux & Le Clerc, seedsmen of Paris, say this chrysanthemum is very vigorous and free flowering. It is of medium habit, that is to say, slightly dwarfer than C. maximum, the culture being the same. It is not a tender plant but can by no means be called hardy in France. Extreme cold, however, if planted in a moist locality seems to affect it slightly. It is a very useful flower for cutting purposes, having long, erect flower stalks. The flowering season for this variety closes towards the end of September.

The Home of of Linnaeus.

It is over 100 years ago since Carl von Linné (Linnaeus), the father of botany, died. Not only does his house still stand within six miles of Upsala, but the rooms are furnished just as he left them. The same pictures are hanging on the walls, and the clothes he wore just where he used to hang them. His herbarium cases are still there, but the plants he collected and dried are in London in the home of the Linnean Society, much to the regret of the Swedes.—Gardening World.

VAUGHAN'S LIST OF

Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots and budded	$2 00	$12 00
3 yrs. old, 3 to 4 ft., well branched, own roots and budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
KILLARNEY, 2 yr., budded	2 50	18 00
DEBUTANTE, 2 yr.	2 00	15 00
SWEETHEART, 2 yr.	2 00	15 00
HIAWATHA, 2 yr.	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr.	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, budded	2 50	16 00	135 00
3rd size, selected, budded	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3-inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties.....each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler.....each, 50c; per doz., 5 00; per 100, 40 00
TREE ROSE Baby Rambler, 1½ to 2½ ft.....each, 75c; per doz., 8 00
TREE ROSE Baby Rambler, 2½ to 3 ft.....each, $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened.
Write us for list and prices.

Manetti Stock for Grafting.

French Stock.....per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

ROSES

	Per 100	Per 1000
Maids, 2½-in. plants	$3.00	$25 00
Brides, 2½-in. plants	3.00	25 00
American Beauty, rooted cuttings	3.00	25.00
American Beauty bench plants	7.00	65.00

Satisfaction Guaranteed.

GEO. REINBERG, 51 Wabash Avenue, CHICAGO, ILL.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each: $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

The New Crested SCOTTII FERN.. NEPHROLEPIS SCHOLZELI

NEPHROLEPIS SCHOLZELI

This crested sport of Scottii will hold the same position to all the crested forms of Nephrolepis that Scottii now holds to the Boston. It is entirely distinct from all others and will become even more popular than its parent, with which it is identical in every way except that the pinnæ are subdivided, giving it a beautiful crested appearance.

We have shown the plant at the exhibitions noted below and have been awarded the following honors:

SHAW GOLD MEDAL, St. Louis Horticultural Society, Nov. 3rd, 1908, for "Best plant, of decided merit for cultivation, not previously an article of North American commerce."

SILVER MEDAL, Offered by the Society of American Florists, through the St. Louis Horticultural Society, Nov. 3rd, 1908, for "The most meritorious plant or flower of American origin".

CERTIFICATE OF MERIT of the Horticultural Society of St. Louis, Nov. 3rd, 1908.

SILVER MEDAL, Pennsylvania Horticultural Society, Philadelphia Nov. 3rd, 1908, for the best new plant.

CERTIFICATE OF MERIT, Massachusetts Horticultural Society, Boston, Nov. 6th, 1908.

CERTIFICATE OF MERIT, Dutchess County Horticultural Society, Poughkeepsie, N. Y., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Morris County Gardeners and Florists' Society, Madison, N. J., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Chestnut Hill Horticultural Society Philadelphia, Pa., Nov. 4th, 1908.

We are booking orders now, which will be filled in strict rotation June 1st, 1909.

PRICE: **Per doz., $3 50; per 100, $25.00; per 1000, $200.00. Twenty-five supplied at hundred rate and five hundred at thousand rate.**

HENRY A. DREER, 714 CHESTNUT STREET PHILADELPHIA, PA.

Vancouver, Wash.

Business at present is very fair and prospects for Easter are good. Pansies are in brisk demand, showing an increase over previous years, as are roses and good shrubbery.

C. M. Weintz has accepted a position as chief gardener at the Vancouver barracks where many improvements are under way.

Eugene Zimmer reports a considerable increase in the demand for cut flowers.

Mrs. Woodward has been very ill the last week. W.

Plant Leaves Injured.

ED. AMERICAN FLORIST:—

We are sending you, by this mail, sample leaves of geranium, calla and Primula obconica which are attacked by disease. Can you tell what this is, also cause and remedy? The disease attacks the outer edge of the leaf first and spreads towards the center. Any information will be appreciated.

Kentucky. FLORIST.

The geranium and primula leaves have been attacked by a fungus (Botrytis), that is the cause of great injury to many plants of widely separated families. The same fungus may have attacked the calla, but this cannot be positively determined from the one leaf submitted for our examination. The presence of botrytis usually suggests lack of ventilation, and too great an amount of moisture in the greenhouse. Giving attention to these conditions, and removing all infected leaves will help to check the spread of the disease, but in addition we advise "Florist" to spray the plants with dilute Bordeaux mixture, using four pounds of copper sulphate and four pounds of lime to 50 gallons of water. Directions for preparing this and other fungicides will be found in Farmers' bulletin 243, which will be sent free, on application to the secretary of Agriculture, Washington, D. C. A. F. W.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Geraniums, single and dbl, Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c.
Vinca Alba, Cuphea, Swainsona, Dbl. Alyssum, Abutilons, Alternanthera, Coleus, Feverfew (Gem), 2-in., 2c. **Asters,** Earliest, 40c per 100.
Stocks, Princess Alice, 40c per 100.
Hollyhock, Single field, $2 00 per 100.
Wallflowers, field, $1.00 per 100.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, yellow; **Swainsona,** alba, $1 00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c, $8 00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5 00 per 1000; **Artillery Plant, Hardy Pinks,** 75c; **Flowering Begonias,** $1.25; **Fuchsias,** 8 kinds, $1.00; **Salvia,** Splendens, Bonfire, 90c per 100; **Parlor Ivy,** 75c; **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

For Quick Cash Buyers 10,000 Pansies, plants untransplanted, best colors, $5.00 per 1000; 2500 pansies, transplanted, including pure white, light blue and gold margined black and best mixed colors all in bud and bloom at $2.50 per 100; $20.00 per 1000.
R. M. CANDY, Langhorne, Pa.

Davenport, Ia.

The Tri-City Florists' Club held a meeting March 18 at the outing club. The following officers were elected:

C. O. E. Boehm, Davenport, president.

Harry Pauli, Davenport, Harry Gaethje, Rock Island, and John Staack, Moline, vice presidents.

John Temple, Davenport, recording secretary.

Theo. Ewoldt, Davenport, financial secretary.

Wm. Knees, Moline, treasurer.

Executive committee—L. Stapp, Rock Island, A. Anderson, Moline, Harry Bills, Davenport.

The next meeting will be held at the residence of Wm. Knees in Moline, April 8. Arrangements have been made for a banquet to be given at the outing club, March 25.

HEADQUARTERS FOR

ARAUCARIAS

"By jingo," was the remark of a bright looking gentleman, as he stepped with his lady friend into one of our Araucaria houses. "If these are not the best shaped and finest looking specimens of **Araucaria Robusta Compacta, Glauca** and **Excelsa** I have ever seen, *then I am a shade.* Just look! What a sight this time of the year, one as nice as the other!"

Araucaria Robusta Compacta, Glauca and Excelsa. Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds, same as when we first started. Why the Araucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen. As big as an elephant, for 75c; as big as a jumbo, for $1.00; and as big as a holy terror, for $1 25 to $1.50.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

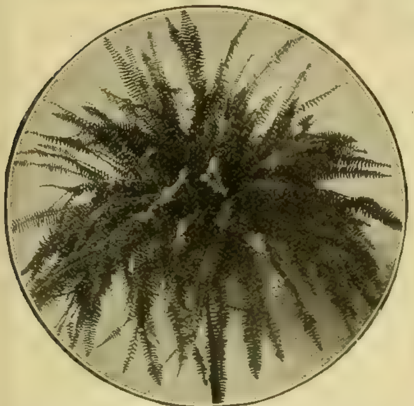
Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old, 4-5-6-7 tiers 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

GODFREY ASCHMANN
Importer, Wholesale Grower and Shipper of Pot Plants.
1012 W. Ontario St., **PHILADELPHIA, PA.**

SPECIMEN FERNS

For Easter Decoration.



	Per 100
4-in. **Boston, Annie Foster** and **Sword**	$12.00
4-in. **Scottii, Whitmani** and **Elegantissima**	20 00
5-in. **Boston, Piersoni** and **Annie Foster**	25.00
5-in. **Elegantissima**	40.00
6-in. **Boston, Piersoni** and **Annie Foster**	40.00
6-in. **Scotti**	60.00
8-in. **Boston** and **Piersoni**	100.00
4-in. **Asparagus Plumosus**	10 00
5-in. " "	15.00
6-in. " "	20.00

MOSBAEK GREENHOUSE COMPANY,
ONARGA, ILLINOIS.

VERBENAS

70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1,00 per 100: $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000. All rooted cuttings.

GERANIUMS, from 2¼-in. pots, at $2.50 per 100; $22.00 per 1000.

Express prepaid on rooted cuttings.
Cash with order. Write

S. D. BRANT, Clay Center, Kan.

PANSY PLANTS.

100,000 large flowering from fiield beds,
50c per 100; $2.50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

Asparagus Plumosus Nanus.

Shipped in Sphagnum, prepaid express, east of the Mississippi.
Large seedlings, $7.50 per 1000;
No order taken for less than 1000.

Drake Point Greenhouses, Yalaha, Florida

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Varieg.,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula,** Obc. Grandif. Lilac, 2¼-in., strong stock. $1-75 per 100: 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa,

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

PREPARE FOR EASTER

From Whom Will We Purchase Our Easter Supply?

From our old friend, Godfrey Aschmann, of course. He has been our man in the past, and will be the man this year: he also will be the man in the future. He has always treated us right. What he advertises he has and he is no bluff.—An immense stock of **Choice Easter Plants** now ready for immediate shipment. Blooming Easter week or before if desired.

If you would know the fairest sight your eyes can ever see,
Where the most perfect plants are grown, to Aschmann's come with me.
Why! Ne'er since flowers began to bloom was such a glorious show
Of all the best that florists need, found in one place to grow.
The lilies are the very best yet seen on Easter day,
Azaleas are whole sheets of flowers perfect in every way.
The Araucarias matchless are so are the ferns all green,
With bulbs, and plumed Spirea, the best you've ever seen
And Aschmann gives a challenge let every florist hear,
For flowers or prices, either, no rival does he fear.
If you wish to gather dollars like violets in the spring,
Then send your largest order, his plants the cash will bring.

AZALEA INDICA.

We are headquarters for these plants for the past twenty-five years. We make a specialty of importing large quantities of this so well known favorite Easter novelty Grown for us in Ghent, Belgium, by an Azalea specialist Have now three houses full of the choicest. Only well known American varieties are imported. They are planted in the fall, as soon as they arrive from Belgium, into 6, 7 and 8 in. pots, planted in greenhouses and kept cool during winter. They are now in excellent condition, covered with buds, just right for Easter.

☞ We only ship good stock and full of buds and flowers

☞ If you need Azalea plants, don't look in vain around the country for bargains, but come or write direct to us. We will be able to supply you with the best obtainable in the American market at moderate prices.

☞ What is the name of the best double pink Azalea? Mme. Van der Cruyssen is the name. Originated by the well known Azalea specialist, Mr. Van der Cruyssen of Belgium. Millions are raised every year and shipped into every part of the globe from Belgium. We have a big stock on hand of this well known variety. Every plant is as round as an apple, covered with buds just right for Easter. Have all sizes for 60c, 75c, $1.00, $1.25, $1.50, $1.75 to $2.00 each.

Deutsche Perle (double white) 75c, $1.00, $1.25 to $1.50; Bernard Andreas Alba (white) we have mostly big plants of this variety, $1.50, $2.00, $3.00 to $3 50, a few at 75c, $1 00 to $1 25; Niobe (also white), 75c, $1.00, $1.25, $1.50 to $2.00 each.

Vervæneana, De Schryveriana (double variegated), 75c, $1.00, $1.25 to $1.50; Dr. Moore and Memorie de Louis Van Houtte (double pink), $1.00, $1.25 to $1.50; Apollo (red), 50c 60c, 75c to $1.00; other good varieties, such as John Llewellyn, Empress of India, Talisman, Helena Thielmann, Illustre, etc., 50c, 60c, 75c to $1.00; Professor Wolters, 75c, $1.00 to $1.25.

When we are out of one color we send the next similar color; also if we are out of the size ordered, we send the next size, either above or below the price mentioned.

☞ Outside of the Deutsche Perle we have none of the small sizes of white to offer. All the small sizes of Niobe and Bernard Andreas Alba lost their buds during the winter and in transportation from Belgium. They never do good the first year, but are fine the next year.

☞ All the other varieties which we advertise are tip-top No. 1 stock.

Easter Lilies. Lilium Multiflorum, the genuine Japanese Easter lily, directly imported by us. We have a friend in Japan who looks after our interests there. He picks out for us only the good, healthy ones, and marks them while they are growing, the 10-in. bulbs, and therefore he ships to us the cream of the plants of Japan. We have Lilies this year to burn; can supply, if nothing happens, every customer and others who want Lilies. If you see them growing in our greenhouses, you must all admit they are "crackerjack9"; we sell them cheap, too. Where other florists get 15c per bud, we only charge you 10c per bud for plants in 6-in. pots, having 5, 8, 10 and more buds to the plant. Plants under 5 buds, 12c per bud, 6-in. pots. Strictly no lilies will be sold by themselves. A reasonable order of other plants must be taken with lilies.

Jerusalem Cherries, large plants, full of buds, 6 to 6½in. pots, 35c, 50c.

Moonvines (Ipomœa Multiflora), best white Moonvine, for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

Hybrid Rose Bushes, grafted, long plants, 30 inches to 3 feet high, John Laing Brunner, Magna Charta etc. 6-in. pots, 50c, 75c to $1.00. **Rambler Dorothy Perkins,** etc., 5½ in., 50c; **Hermosa,** 5 in., 35c; 6-in., large stock, 50c.

Begonia new improved Erfordi, 5-in., $2.00 per doz ; **Begonia Flambeau** 5-in. $2.00 per doz

Spirea Gladstone. This variety, owing to the dry summer in Holland last year, is very scarce this Easter, but we were fortunate enough to secure sufficient to fill our usual house, and the plants are now in fine condition, full of buds, just right for Easter, 6-7 in. pots, 50c, 75c to $1.00 each. Spirea Floribunda, Japonica and Superba, 6-in. pots, 25c, 35c to 50c.

Primula Obconica, 5-in., $2.00 to $2.50 per doz.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot $2.50 to $3 00 per doz. pots.

Hyacinths, 4 best colors, King of the Blues, Grand Maitre (light blue), La Grandesse (best white), Gertrude (best pink), 4-in., $12 00 per 100.

Asparagus Plumosus Nanus, 3-in., $5.00 per 100.

Hydrangea Otaksa, in bud, 6-7 in. pots, 50c, 75c to $1.00 each.

Cineraria Hyb. Graddiflora, H. F. Michell's new improved strain. Our plants of this strain are twice the size of those of other years, with perfect, large, green foliage. Some of the plants are almost as large as a bushel basket. 6-in. pots, 25c, 35c, 50c, 75c to $1,00 each.

Areca Lutescens, 4-in., 3 plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in. pots 25c; 30c, 40c to 50c.

Boston Ferns, 6-in. pots, 50c; 7-in. pots, 75c; $1,00 to $1.25; 8-in. pots, $1.50.

Scottii Ferns, 5½-in. pots, 40c; 6-in. pots, 50c; 7-in. pots, 75c to $1.00; 8-in. pots, $1.50.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c, $1 00 to $1.25; 9-in. pans, as big as a washtub $1.25 to $1.50.

Neph. Amerpohli, 5¼, 5½ to 6 in. pots, 30c, 40c and 50c; 6-in., 60c to 75c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots, 25 to 30 in high, 50c to 60c; 4-in., 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25, 30, 40 to 45 in. high, 75c, $1.00 $1.25, $1.50 to $2 00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high, 50c, 60c to 75c.

A Few of Many Testimonials Received Lately.

The Cherokee Greenhouses,
Camden, S. C., March 9th, 1909.

GODFREY ASCHMANN,
1012 Ontario Street, Philadelphia:

Dear Sir:—Plants received yesterday in excellent condition. Thanks for your selection.

Yours truly, S. M. SHANNON.

Chicago, Ill., March 1, 1909.

GODFREY ASCHMANN Phila.:

Dear Sir:—I was so well pleased last Easter with the collection of Azaleas that I have sent you another order. (The order of Azaleas specified.)

MRS. H. LOWE, 1102 N. 43rd Ave.

March 12, 1909.

GODFREY ASCHMANN:—Your esteemed order of lilies arrived O. K., and were as fine a lot of plants as I could wish for. Enclosed check for same.

Respectfully yours,
HENRY EICHHOLZ, Waynesboro, Pa.

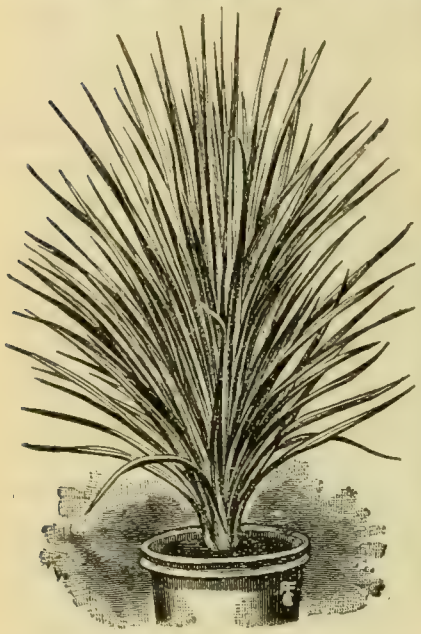
Dozens of more testimonials on application.

GODFREY ASCHMANN, 1012 W. Ontario St., Philadelphia. Pa.

Importer, Wholesale Grower and Shipper of Pot Plants.

Easter Lilies in Pots

Write for Prices.



Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

	Per doz.	Per 100
3-inch	$ .75	$ 6 00
4-inch	1.50	12.00
7-inch	7.00	

You can recommend these plants: first-class value for the money. If you don't want them shipped at once, we will reserve them until any date you name, only send in your order today.

Send for complete wholesale price list of Palms and Ferns.

The Geo. Wittbold Co.,

1657 Buckingham Place. CHICAGO.

European Horticulture.

FROM THE FRENCH TRADE PAPERS.

WINTERING OF CRIMSON RAMBLER ROSE.—German gardeners experience difficulties in the wintering over of large sized, permanently established Crimson Rambler roses, of which they make extensive use in the covering of arbors, wayside trellises and balustrades. Every expedient resorted to as a possible safeguard against winter-killing has proved ineffectual in nearly every instance, it is reported. All sorts of devices have been tried, but each one so far failed to entirely save the plants from damage. The best of these, better than the wrapping in straw or the mantle of mattings, is said to consist of the removal of every leaf from the vines in late fall, laying the plants down and covering with earth. But even with this soil protection the roses suffer severely and much of their wood, when released in the spring, is dead. In answer to all these complaints a noted rose expert gives it as his opinion, based on many years of observation and practice, that Crimson Rambler, thus most painstakingly wrapped up and covered, sustains greater injury than any roses of the same class, the same size and in the same garden, not protected at all against the rigors of winter. He found that under careful protection it is in every instance the old, well hardened wood that suffers most, often being killed outright, while the young growth of the previous year is never harmed in the least.

New Dahlias Ready for delivery April 1.

Jack Rose (Decorative) Rich velvety crimson, early and free flowering on long stems. An ideal cut flower.

Virginia Maule (Decorative) Delicate tint of shell pink, it certainly is the coming commercial Pink Dahlia.

Princess Victoria (Show) Pure Canary yellow, without shade or blemish from bud until old age.

Ethel Schmidt (Show) Pure white, flushed delicate pink, dotted and penciled crimson.

Sensation A new double Century, vivid vermillion, heavily tipped white.

Big Chief A new double Century brilliant cherry red, margined rich velvety maroon.

Gladys (Century) Each petal has a brilliant rose crimson center, divided from the broad rosy pink edge by a white penciling.

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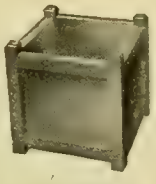

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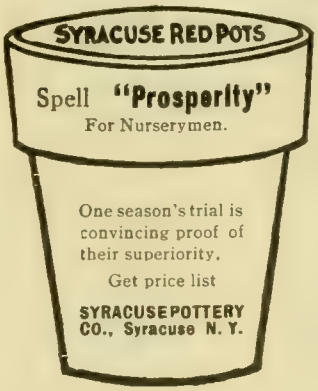

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A DISCORDANT NOTE.—The German Orchid Society, organized some years ago under the most promising auspices, now intends to end its influential existence. At its next meeting the question of "to be or not to be" will be brought up for final discussion. Several of the most prominent of the German horticultural societies are striving to take the discouraged orchidists under their wing as one of their subordinate branches, but affiliation in any manner proposed is strongly objected to by the 300 and odd remaining members of the Orchid Society, now preparing for dissolution. With it the publication of its official organ, "Orchis," a well-conducted monthly magazine, is also to be discontinued.

ORVILLE, PA.—Geo. Samtman, formerly superintendent at the Florex Gardens, North Wales, has bought the large greenhouses here.

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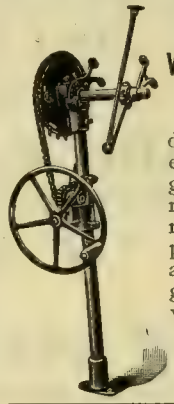

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Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

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Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia, Kathleen Mallard, 2-in., $2 per 100; $18.50 per 1,000. Crystal Palace Gem, $1.50 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Kathleen Mallard, double from 2-in. pots, 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

MOONVINES.

Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, 6,000 Swiss Stone pine seedlings, 3 and 4 yrs.; 2,000 6 to 8 ins., transplanted and larger sizes; 1,000 Mugho pine, 6 ins.; twice trans. Engleman spruce, 9 to 12 ins. Jackson's Nurseries, Portland, Me.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, roses, rhododendrons, hydrangeas, conifers, herbaceous and bulbous stock. Wm. Elliott & Sons, 45 Vesey St., New York.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Nursery stock, Forsythia, 18 to 24 in., well rooted, $2 per 100. Tamarix, 4 to 5 ft., $6 per 100. Elmhurst Nursery, Argentine, Kans.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, trees, shrubs, roses, evergreens and hardy plants. Mount Hope Nurseries, Box Q, Rochester, N. Y.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock, Calif. privet, 1-yr., $20 per 1,000. American chestnut, 50 large sugar trees. I. & J. L. Leonard, Iona, N. J.

Nursery stock, fruit and shade trees, shrubs, evergreens. W. & T. Smith Co., Geneva, N. Y.

Nursery stock. H. den Ouden & Son, Boskoop, Holland.

Nursery stock. Storrs & Harrison, Painesville, O.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids, C. Mendelii, C. Gaskelliana, C. Mossiæ, C. gigas Hardyana, C. aurea, Miltonia vexillaria, M. Roezlii. G. L. Freeman, 388 Appleton St., Holyoke, Mass.

Orchids. The Liverpool Orchid and Nursery Co (Cowan's) Limited, Gateacre, near Liverpool, England.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Palms, Areca lutescens, 4-in., 25c. Kentia Bel., 5 leaves, 5½-in., 25 to 30 ins., 50c to 60c; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, Jenning's strain, 1st size in bud and bloom, $1.25 per 100; 2nd size, bud and bloom, $1 per 100; strong plants bloom in April, $5 per 1,000; smaller size, $4; seeds, $1 per pkg.; 4,000 seeds, $4 per oz. E. B. Jennings, box 254, Southport, Conn.

Fancy strain pansy plants, extra large, stocky plants in bloom and bud, $15 per 1,000. Joy Floral Co., Nashville, Tenn.

Giant pansy plants, stocky, field-grown from fall sown seeds, 50c per 100; $35 per 1,000, prepaid. Cash. Chas. Frost, Kenilworth, N. J.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

PANDANUS.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

PEONIES.

Peonias, Double Chinensis. Order Now. 2 to 5 eye divisions in red, pink and white. Splendid values, $1 per doz.; $5.50 per 100. Our list of 116 varieties for fall planting now ready. Ask for it. All the good ones, including the latest varieties. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Peonies, distinct named kinds and colors; strong roots, $1 per doz.; $8 per 100. F. A. Baller, Bloomington, Ill.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

PETUNIAS.

Petunias, Dreer's Superb Single, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Petunias, double mixed, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

If you do not find what you need in our Ready Reference Department, write us about it.

PRIMULAS.

Primula obconica, 5-in., $2 per doz. G. Aschmann, 1012 W. Ontario St., Philadelphia.

PRIVET.

AMOOR RIVER PRIVET, 300,000, all sizes. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

Rhododendrons. Parson's hardy vars., 8 to 12 buds, 18 to 24 ins., $75 per 100; 12 to 14, 24 to 30 ins., $100 per 100. Storrs & Harrison Co., Painesville, O.

Rhododendrons, Jean Bracke, Lochristy, Belgium.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROOTED CUTTINGS.

Rooted cuttings from soil, $1 per 100; Heliotrope, fuchsias, 4 vars.; cupheas, petunias, dbl. white; Vinca Var., feverfew, Little Gem; Coleus, Vers. and Golden Bedder; alternantheras, 4 vars., 50c per 100 from sand. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots and budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots and budded, $3 per doz.; $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins: Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $3 per doz.; $20 per 100; $150 per 1,000; 2nd size, budded, $2.50 per doz.; $16 per 100; $135 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Tree Baby Rambler, 1½ to 2½ ft., 75c each; $8 per doz.; 2½ to 3 ft., $1 each; $10 per doz. Killarney, 2-yr., budded, $2.50 per doz.; $18.50 per 100. Vaughan's Seed Store, Chicago and New York.

ROSES. American Beauty, 2 or 2½-in., $7 per 100; $65 per 1,000; 3 or 3½-in., $9 per 100; $85 per 1,000. My Maryland, grafted strong stock, 3 or 3½-in., $20 per 100. My Maryland, own roots, 3 or 3½-in., $12 per 100. Killarney, own roots, 2 or 2½-in., $6 per 100; $55 per 1,000; 3 or 3½-in., $7.50 per 100. Bridesmaid, Bride, Richmond, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Mrs. Potter Palmer, 2 or 2½-in. $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Perle, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Kaiserin, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Uncle John, 2 or 2½-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

GRAFTED AND OWN ROOT ROSES.

Grafted 2½-in. pots.	Per 100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

Roses, dormant, field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses. Chas. H. Totty, Madison, N. J.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, hybrid perpetual, dormant field-grown, $11 per 100; $100 per 1,000. Moss, field-grown, $12 per 100. Hardy climbing, field-grown, $8 per 100. Tree roses, 4 to 5 ft., $30 per 100. Storrs & Harrison Co., Painesville, O.

Roses, Maid, Bride, 2½-in., $3 per 100; $25 per 1,000. Am. Beauty, R. C., $3 per 100; $25 per 1,000; bench plants, $7 per 100; $65 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

Rose, White Killarney, 2¼-in., own roots, $30 per 100; 250 for $70; 500 for $125; 1,000 for $250; grafted plants, $35 per 100; 250 for $82.50; 500 for $150; 1,000 for $300. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, Richmond, Bride, Bridesmaid, rooted cuttings, $2 per 100; $15 per 1,000; 2-in., $2.50 per 100; $20 per 1,000; 2½-in., $3 per 100; $25 per 1,000. Quality guaranteed. E. B. Sage, Red Rock, McKean Co., Pa.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses. Ask for our catalogue and get your rose lists priced. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Roses, rooted cuttings, Perle and Kaiserin, $4 per 100; $35 per 1,000. Maid, Bride, Richmond, $2 per 100; $15 per 1,000. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses, summer grown, winter rested, on own roots. See column adv. and prices, pages 399, March 20. Leedle Floral Co., Springfield, O.

Roses, Kaiserin, bench plants, $6 per 100; $60 per 1,000. Wietor Bros., 51 Wabash Ave., Chicago.

Roses, 2,500 2 to 2½-inch Richmonds, fine stock, $25 per 1,000. Sinner Bros., 60 Wabash Ave., Chicago.

Rose, Taft, 2-in., $15 per 100. The Hyde Park Rose Co., Wasson Ave. and McCormick Rd., Hyde Park, Cincinnati, O.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, dwarf, climbing, tree and Ramblers. Bobbink & Atkins, Rutherford, N. J.

SALVIAS.

Zurich, type selected for 2 years, R. C., $1 per 100; $9 per 1,000; 2-in., 2½c. Bonfire and Lord Fauntleroy, R. C., 1c; 2-in., 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Salvias, 2-in., Bonfire, $2 per 100; $18.50 per 1,000. Zurich, $3 per 100; $22.50 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvias, 5 varieties, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Salvia splendens, Bonfire, R. C., 90c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

SEEDS.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, Asparagus plumosus nanus, northern greenhouse grown, 100 seeds, 50c; 250, $1; 1,000, $3.50; 5,000, $16.25. Sprengeri, 100 seeds, 15c; 250, 25c; 1,000, 75c; 5,000, $3.25. Alyssum Little Gem, tr. pkt., 10c; oz., 30c; ¼ lb., 75c. Aster Queen of the Market, all colors, tr. pkt., 10c; ¼ oz., 20c; oz., 50c; Carlson, tr. pkt., 25c; ¼ oz., 40c; oz., $1.50; Branching, tr. pkt., 10c; ¼ oz., 30c; oz., $1; Vaughan's Upright Branching White, tr. pkt., 25c; ¼ oz., 40c; oz., $1.50. Candytuft, giant hyacinth-flowered, tr. pkt., 5c; oz., 20c; ¼ lb., 50c. Castor Bean, Zanzibar, mixed, tr. pkt., 5c; oz., 10c; ¼ lb., 20c; Enormis, tr. pkt., 5c; oz., 15c; Panormitanus, tr. pkt., 10c; oz., 25c. Centaurea Cyanus, tr. pkt., 10c; ½ oz., 30c; oz., 60c; dbl. white, tr. pkt., 10c; ½ oz., 40c; oz., 75c. Cobea scandens, purple, tr. pkt., 10c; oz., 30c; ¼ lb., 90c. Cosmos, early white or pink, northern grown, tr. pkt., 10c; oz., 60c. Dianthus Hedd, Snow Queen, tr. pkt., 10c; ½ oz., 30c. Moon Vine, tr. pkt., 10c; oz., 30c. Mignonette Machet, tr. pkt., 10c; ½ oz., 25c; oz., 50c; Goliath, tr. pkt., 15c; ¼ oz., 25c; oz., 80c. Nasturtiums, Vaughan's Special mixture, tall or dwarf, oz., 10c; ¼ lb., 20c; lb., 60c. Phlox Drummondi, colors, each, tr. pkt., 10c; ¼ oz., 20c; oz., 60c; mixed, tr. pkt., 10c; ¼ oz., 15c; oz., 50c. Petunia, large flowering single, "Vaughan's Best" mixture, 1,000 seeds, 50c. Primula obconica grandi., white, rosea and mixed, each, tr. pkt., 50c; 1-32 oz., $1. Stocks, Giant Perfection, white, sky-blue, pink, scarlet, dark blue, each tr. pkt., 25c; ⅛ oz., 40c; oz., $2.50; Prince Bismarck, tr. pkt., 25c; White Column, tr. pkt., 25c; ⅛ oz., 60c. Verbena, "Vaughan's Best" mixture, tr. pkt., 25c; ¼ oz., 50c; oz., $2. Sweet Peas, White Spencer, oz., 15c; ¼ lb., 40c; lb., $1.50. Nora Unwin, oz., 10c; ¼ lb., 25c; lb., 80c. Dorothy Eckford, ¼ lb., 10c; lb., 30c; 5 lbs., $1.25; reselected, oz., 50c. Lady Grisel Hamilton, ¼ lb., 10c; lb., 25c; 5 lbs., $1.10. Mrs. Walter Wright, ¼ lb., 15c; lb., 45c. Bridesmaid, ¼ lb., 15c; lb., 40c. Gladys Unwin, oz., 10c; ¼ lb., 20c; lb., 50c. Countess Spencer, var., oz., 15c; ¼ lb., 40c; lb., $1.25. Button's Pink, ¼ lb., 15c; lb., 50c. Helen Lewis, ¼ lb., 20c; lb., 60c. Evelyn Byatt, ¼ lb., 15c; lb., 40c. King Edward VII, ¼ lb., 15c; lb., 40c. Queen Alexandra, ¼ lb., 15c; lb., 50c. Primrose Spencer, oz., 15c; ¼ lb., 35c; lb., $1.25. Hon. Mrs. Kenyon, ¼ lb., 10c; lb., 30c. Florence Frazer, ¼ lb., 15c; lb., 40c. Blanche Ferry, ¼ lb., 10c; lb., 20c. Vaughan's Seed Store, Chicago and New York.

Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis. Hambergia, pkt., 25c; Barnard's Perpetual, White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi., 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg, Pa.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. O. V. Zangen, Hoboken, N. J.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seed, Stone tomato; pepper, Ruby King, Neapolitan, Bull Nose, Sweet Mountain. I. & J. L. Leonard, Iona, N. J.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seeds, onion, beet, tomato, cabbage, cucumber, sweet corn, seed potatoes and onion sets. S. D. Woodruff & Sons, 82 Dey St., New York.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

If you do not find what you need in our Ready Reference Department, write us about it.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seed. Emerald Gem muskmelon, $1 per lb. Cole's Early watermelon, 30c per lb. Freeman Hurff, Swedesboro, N. J.

Seed, giant flowering pansy, $4 per oz. Jos. H. Cunningham, Delaware, O.

Onion seeds. We are exclusive growers and dealers. Schilder Bros., Chillicothe, O.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton C. Zvolanek, Boundbrook, N. J.

Seeds. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, choice German flower seeds. Fredrick Roemer, Quedlinburg, Germany.

Seeds of all kinds. Stokes' Seed Store, 219 Market St., Philadelphia.

Seeds. D. Landreth Seed Co., Bristol, Pa.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seed beans, F. L. Hogue, Carpinteria, Calif. Grower for the wholesale trade only.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SMILAX.

Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2 per 100; $18.50 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spiræa Gladstone, 6-in., 40c to 75c. Japonica floribunda grandi., 6-in., 25c to 35c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Spireas. Jacs Smits, Ltd., Naarden, Holland.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

VEGETABLE PLANTS.

Vegetable plants, cabbage: Wakefield, Succession, $1.50 per 1,000. Egg plant: N. Y. Improved Black Beauty, 40c per 100; $3 per 1,000. Peppers: Bull Nose, Ruby King, Sweet Mountain, 40c per 100; $3 per 1,000; Chinese Giant and Cayenne, 50c per 100. Tomatoes: Earliana, Chalk's Jewel, Early June Pink, 30c per 100; $2 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, large flowering red, white, pink, blue, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Verbenas, R. C., 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

VINCAS.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vincas variegated, R. C., $1.25; very strong, 2¼-in., $2.50. Mosbæk Greenhouses, Onarga, Ill.

Vincas, $1 per 100; $8 per 1,000, prepaid. C. Humfeld, Clay Center, Kans.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

VIOLETS.

Princess of Wales, Luxonne, California violets, rooted runners, clean and free from disease, $1 per 100; $8 per 1,000. Cash with order. Jacques Gillmet, Moylan, Del. Co., Pa.

Violets, Baronne Rothschild, the freest, most fragrant and best paying single violet, R. C., $10 per 100. Chas. H. Totty, Madison, N. J.

Violet Blue rose. Ellwanger & Barry, Box Q, Rochester, N. Y.

Violets. Wood Bros., Fishkill, N. Y.

WHOLESALE CUT FLOWERS.

Commission Dealers.

Abrahamson, Wm. W., 21 Wabash Ave., Chicago.
Amling, E. C., 32-36 Randolph St., Chicago.
Berning, H. G., 1402 Pine St, St. Louis.
Deamud, J. B., Co., 51 Wabash Ave., Chicago.
Ford Bros., 48 W. 28th St., New York.
Froment, Horace E., 57 W. 28th St., N. Y.
Growers' Cut Flower Co., 39 W. 28th St., N. Y.
Guttman, Alex. J., 34 W. 28th St., New York.
Henshaw & Fenrich, 44 West 28th St., N. Y.
Holton & Hunkel Co., 462 Milwaukee St, Milwaukee, Wis.
Hunt, E. H., 76 Wabash Ave., Chicago.
Kennicott Bros. Co., 48-50 Wabash, Chicago.
Kessler Bros., 50 W. 28th St., New York.
Keuhn, C. A., 1122 Pine St., St. Louis.
Krueger Bros., Toledo, O.
Langjahr, Alfred H., 55 W. 28th St., N. Y.
McCallum Co., 937 Liberty Ave., Pittsburg, Pa.
McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.
McKellar, Chas. W., 51 Wabash Ave., Chicago.
McKissick, W E. & Bros., 1619-21 Ranstead St., Philadelphia.
Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.
Millang Bros., 41 W. 28th St., New York.
Chas. Millang, 444 6th Ave., cor. 27th st., New York.
Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.
Murphy, Wm., 311 Main St., Cincinnati, O.
Niessen Co., Leo, 1208 Arch St., Philadelphia.
N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.
Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.
Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.
Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.
Pollworth, C. C. Co., Milwaukee, Wis.
Randall, A. L., Co., 19 Randolph St., Chicago.
Raynor, John I., 49 W. 28th St., New York.
Rice Bros., 128 N. 6th St., Minneapolis, Minn.
Robinson, Henry M. & Co., 11-15 Province St., Boston.
Schreiner, Nicholas C., 41 W. 28th St., N. Y.
Seligman, John, 56 W. 26th St., New York.
Sheridan, Walter F., 39 W. 28th St., N. Y.
Smith & Co., W. C., 1316 Pine St., St. Louis.
Traendly & Schenck, 44 W 28th St., N. Y.
Vaughan & Sperry, 58-60 Wabash Ave., Chicago.
Welch Bros., 226 Devonshire St., Boston.
Winterson, E. F., Co., 45-49 Wabash, Chicago.
Young, A. L., & Co., 54 W. 28th St., N. Y.
Young, John, 51 W. 28th St., N. Y.
Young & Nugent, 42 W. 28th St., New York.
Zech & Mann, 51 Wabash Ave., Chicago.

Growers.

Bassett & Washburn, 76-78 Wabash, Chicago.
Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.
Bruns, H. N., 1409-11 W. Madison, Chicago.
Budlong, J. A., 37-39 Randolph St., Chicago.
Elliott, W. H., Brighton, Mass.
Hill, The E. G. Co., Richmond, Ind.
Jensen & Dekema, 674 W. Foster Ave., Chicago.
Peacock Dahlia Farms, Atco, N. J.
Poehlmann Bros. Co., 35-37 Randolph, Chicago.
Reinberg, Peter, 35 Randolph St., Chicago.
State Nursery Co., Helena, Mont.
Weiland & Ollinger, 128 E. 3rd St., Cincinnati, O.
Weiland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

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Anderson, S. C.—The Anderson Floral Co., 533 Marshall Ave.
Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.
Baltimore, Md.—Z. D. Blackistone, 1601 Eutaw Pl.
Boston, Mass.—Hoffman, florist, 59 Massachusetts Ave.
Boston—Frank H. Houghton, 396 Boylston St.
Brooklyn, N. Y.—Robt. G. Wilson, Fulton St. and Green Ave.
Buffalo, N. Y.—Palmer's.
Chicago—Hauswirth, Florist, Auditorium Annex.
Chicago—Wittbold, Florist, 1657 Buckingham Place.
Cincinnati, O.—Julius Baer, 138 E. 4th St.
Dayton, O.—Matthews, 16 W. 3d St.
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Denver, Colo.—Daniels & Fisher.
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Galveston, Tex.—Mrs. M. A. Hansen.
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Kansas City—Samuel Murray, 1017 Broadway.
London, Eng.—Wills & Segar, Onslow Crescent, Kensington.
Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.
Louisville, Ky.—J. Schultz, 644 4th Ave.
Nashville, Tenn.—Joy Floral Co., 610 Church St.
New Orleans, La.—U. J. Virgin, 833 Canal St.
New York—M. A. Bowe, 1294 Broadway.
Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.
Owatonna, Minn.—Clinton Falls Greenhouses.
Philadelphia, Pa.—Robt. Kift, 1725 Chestnut St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.
San Francisco, Calif.—J. B. Boland, 60 Kearny St.
St. Louis, Mo.—Young's, 1406 Olive St.
St. Paul, Minn.—Holm & Olson.
Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.
Toledo, O.—Krueger Bros.
Toronto, Ont.—Dunlop's, 96 Yonge St.
Washington, D. C.—Z. D. Blackistone, 14th and H Sts.
Washington, D. C.—A. Gude & Bros., 1214 F St.

BLOWERS.

Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers. Meyers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, N. Y.

Boilers, boilers of high grade for greenhouses, Steam or hot water. Giblin & Co., Utica, N. Y.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., N. Y.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

Rococo boilers and hot water heaters. American Heater Foundry Co., West Chicago.

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Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouses and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

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Building material, cypress sash bars. Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress"; everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

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Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes. Established 1851. John B. Smith & Sons, Ltd., Toronto, Can.

Building material of all descriptions for all cypress, semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Sunlight double glass hotbed sash. Sunlight Sash Co., 506 Floyd St., Louisville, Ky.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No right or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburgh, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chicago and New York.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

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Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. Y.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, N. Y.

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Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

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Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton, $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

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Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

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The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

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Cane Stakes. Standard grade, 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.
Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

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Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

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"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

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Toothpicks wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

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Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Iron reservoir vases. McDonald Bros., Columbus, O.

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Ventilators. One Wolf Roller Bearing Machine is raising uniformly 50 heavy hotbed sash. Most powerful and labor saving. Send for estimates and references. The Wolf Machine Co., Dayton, O.

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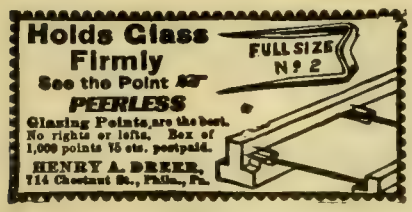
If you do not find what you need in our Ready Reference Department, write us about it.



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Are positively the best.
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

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SADDLE RIVER. N. J,

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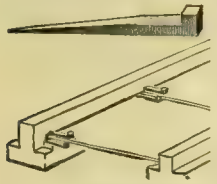

Siebert's Zinc Glazing Points.
Good for small or large glass. do not rust, easy to drive ⅝ and ⅞ inch Per lb 40c. 5-lbs. $1.85. 20-lbs $7.00.
VAUGHAN'S SEED STORE, Chicago or New York.

Washington.

TRADE FAIR.

The Lenten dullness has been felt by all, and stock during the early part of the week moved slowly. There are a few dinners during these dull days, given for the most part for the new members of the diplomatic corps, arriving, or old members departing. There is also a wedding here and there to stir up a little interest. Owing to the extra session of congress and the new cabinet, it is safe to predict that the flower buying folk will remain late in the Capital city.

NOTES.

H. Summers, the lycopodium king, takes pride in his excellent plans of it, and it keeps him busy supplying the local retailers.

Minder Bros. have some very good Easter stock, which they are disposing of rapidly.

Gude Bros. are cutting some excellent Killarney, Richmond and American Beauty roses.

Geo. C. Shaffer had a busy day Saturday, mostly funeral work and boxes of flowers.

J. H. Small & Sons used a great many Easter lilies in decorations the past week.

W. Marche & Co. had several good orders for funeral work the past week.

G. S.

Attention!! Glass Buyers!!

WHILE IT LASTS—FIRST COME, FIRST SERVED.

A limited stock of "HIGHEST QUALITY" GREENHOUSE GLASS at the following RECORD BREAKING PRICES:

16x18 A, Double Strength	$2.20	16x24 A, Double Strength	$2.35
16x18 B, " "	2.05	16x24 B, " "	2.20

F. O. B. Chicago, Less 2 per cent. for cash. Mention prices when ordering.
——other sizes at low prices also——

H. M. HOOKER COMPANY,
WHOLESALE GLASS AND PAINTS,
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Don't Buy the "Just as Good" Kind

Insist upon "the best" brand
Greenhouse Glass
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Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

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The double layer of glass does it

Lets in the light always.
Never has to be covered or uncovered; no boards or mats needed.
Retains the heat, excludes the cold.
Makes stronger and earlier plants.
Glass slips in; no putty; cannot work loose; easily repaired.
Ask for catalog A. It tells all about Sunlight sash.
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IMPORTERS and JOBBERS
GREENHOUSE GLASS
A SPECIALTY.
Window Glass, Paint, Putty, etc.
Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Chicago.

There was a large and enthusiastic attendance of the bowlers at Bensinger's alleys, 118 Monroe street, March 19. There were 18 on hand including E. F. Winterson, who left before the regular games scheduled below came off. They were divided into three teams under A. Zech, Otto Goerisch and Frank Pasternick, with results as follows:

A. ZECH'S TEAM.

T. Erickson	121	141	179
E. Schultz	158	135	144
F. Armstrong	132	90	124
J. Michaelson	118	143	152
A. Zech	221	149	163
Totals	750	658	762

OTTO GOERISCH'S TEAM.

J. Kruchten	125	109	132
F. Johnson	146	133	..
H. Kruchten	139	158	121
M. Tribble	84	85	95
O. Goerisch	125	118	..
J. Byers	..	..	139
J. Zech	..	..	216
Totals	619	603	703

FRANK PASTERNICK'S TEAM.

F. Pasternick	108	152	143
F. Ayers	144	127	134
M. Jensen	95	117	118
Wm. Graff	190	115	147
F. Krauss	107	68	84
Totals	644	579	626

Bowling is scheduled at the same alleys for every Friday evening from now on and it is hoped the attendance will steadily grow. Several of the ladies have indicated their intention of being out this week and it is hoped they will be joined by a large number of their sisters.

At Washington.

The florists bowling team played a rather exciting game with the Saengerbund team; the following are the scores:

FLORISTS.			
Cooke	124	219	178
Shaffer	211	165	206
Hamner	162	168	216
Ernest	153	183	178
McLennon	203	171	191
Total	853	906	969
SAENGERBUNDS.			
Machler	194	221	192
Burdine	229	193	173
Redeker	222	136	227
Eckstein	190	227	180
Miller	186	158	163
Total	1021	935	935

G. S.

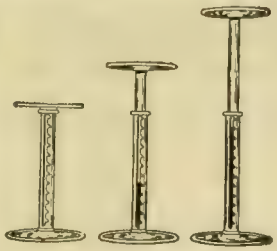
Twin-City Bowlers.

The Minneapolis bowlers "put it all over" the St. Paul brethren at the contest March 19. The following score tells the sad tale:

MINNEAPOLIS:			
T. Wirth	111	133	106
L. Boeglin	132	151	151
C. N. Ruedlinger	173	166	175
H. Will	160	145	146
K. Carlson	125	126	146
Total	701	721	724
ST. PAUL:			
S. Dysinger	118	136	124
Carl Haugen	145	158	107
J. Dill	143	102	134
N. C. Hansen	129	120	163
O. J. Olson	103	157	147
Total	638	673	675

FELIX.

ROCKVILLE, MASS.—Calverry & Risley will open a store in the Exchange block April 1.



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S

SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use 1 part to 75 or 100 parts of water.

B. G. PRATT CO., 50 Church St., New York, U. S. A.

Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

THE H. A. STOOTHOFF CO.,

MOUNT VERNON NEW YORK.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,

FLUSHING, N. Y.

"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

Mention the American Florist when writing

Unrivalled for all Purposes.

THOMSON'S Vine, Plant and Vegetable MANURE

ALSO SPECIAL CHRYSANTHEMUM AND TOP DRESSING MANURES

The result of many years' **Practical Experience.** Largely used at home and abroad for over a quarter of a century. Perfect Plant foods and Stimulants. **Freight paid on quantities.**

Write for our special offer to the American trade; pamphlet, circulars etc to sole makers.

WM. THOMSON & SONS, LTD.,

Tweed Vineyard, Clovenfords, Scotland.

Sold by the leading American seedsmen.

Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE.

Furnishes the Most Nicotine for the Money!

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

By far the CHEAPEST.

JUST NOTE PRICES:

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,

OWENSBORO, KY.

The Kinney Pump

Mixes liquid manure with the water while watering. Fully guaranteed, Sent prepaid for $2.00

The Hose Connection Co.
KINGSTON, R. I.

REED & KELLER,

122 W. 25th St., NEW YORK.

FLORISTS' SUPPLIES

We manufacture all our **Metal Designs, Baskets, Wire Work & Novelties** and are dealers in **Glassware, pottery, Decorative Greens and all Florists' Requisites.**

Florists' Refrigerators

Write us for catalog and prices, stating size you require, and for what kind of cut flowers you wish to use the refrigerator; also state whether you wish it for display or only for storage.

McCRAY REFRIGERATOR CO.
960 Mill Street, KENDALLVILLE, IND.

SCOLLAY'S

Plant Sprinkler Putty Bulb.

VAUGHAN'S SEED STORE, CHICAGO NEW YORK

Wired Toothpicks

10,000, $1.75: 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers. Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

Vi Fluid

THE IDEAL WINTER SPRAY

SCALE KILLER & FUNGICIDE

POWERFUL CLEANSER AND INVIGORATOR

Mixes Instantly. No Sediment. No clogging. Non-injurious to user

COMPARATIVE TEST WILL PROVE ITS MERITS

Quart, $1.00; Gallon, $3.00

1 gallon makes 100 gallons. Write for descriptive pamphlet and testimony

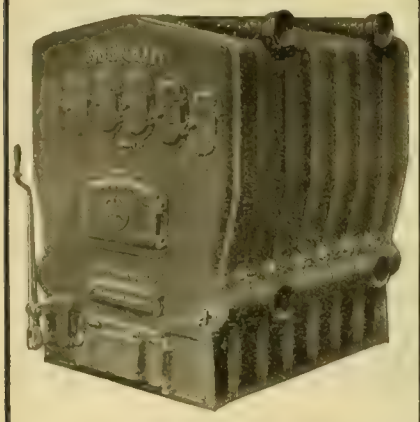
PROP'S. WM COOPER & NEPHEWS
177 ILLINOIS ST. CHICAGO

Freight prepaid on direct orders. Mention this paper.

Send Advts. Early for Best Service.

The Burnham

Send for Catalog.



Lord & Burnham Co.,

Main Sales Office:
1133 Broadway, New York.

Boston: 819 Tremont Bldg.
Philadelphia: 1215 Filbert St.

Albany, N. Y.

St. Patrick's day caused a demand for large numbers of carnations, tulips, and roses tinged green with aniline dye. The demand for these monstrosities in flowers seems to be on the increase from year to year, but calls vividly to mind the needlessness of painting the lily or tinting the rose.

NOTES.

At its last regular meeting the Florists' Club decided to go ahead with the arrangements for holding a flower show next fall in one of the public halls of the city. It is proposed to charge a nominal sum for admission to the exhibition, the proceeds to be divided equally among several charitable institutions in the city after all necessary expenses shall have been deducted. Fred A. Danker was appointed chairman of the general committee by President Goldring. With Mr. Danker were named: Alfred D. Wemple, secretary, and Louis Menand, treasurer. Chairman Danker proceeded to name a number of sub-committees as follows: Hall, Patrick Hyde (chairman), Alfred E. Whittle, Thos. B. Snare, Fred Henkes, Harry W. Riggs and Edmund S. Hazeltine. Programme, printing and advertising, Edward F. Meany (chairman), Wm. C. Gloeckner, Wm. F. Roche, Frank M. Briare and John H. Moran. Decorations and arrangement of exhibits, Samuel Goldring (chairman), Wm. C. Kurth, Wm. C. King, Philip Bender, John Murnane, Frank Coonley and J. H. Sanders. Premiums and selection of judges, Edward P. Tracey (chairman), Wm. Hannell, J. H. Snyder, Rhinebeck, L. Woods, Fishkill-on-Hudson, C. Sullivan and P. Warner.

Generous responses are being made to the offer of the state forest, fish and game commission to supply to citizens, municipalities and corporations within the state small trees for planting, at the rate of $4 per 1,000. The object of the commission is to encourage the reforestration of areas devastated by the axe and fire. The commission has placed an order with a German firm for 1,000,000 trees to supplement the supply raised by the state. Already orders have been received in this city for 1,500,000 white pines. Commissioner Whipple is urging the planting of at least 50,000,000 trees in the state within the next five years. As an object lesson the state has undertaken to plant 25 acres of its land at the Margaretville fish hatchery in Delaware county.

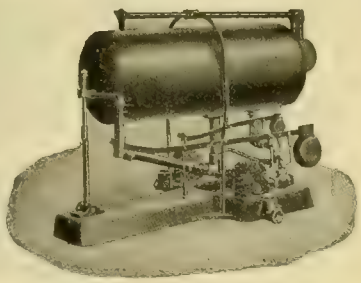
20 Years in Service

MOREHEAD
Return Steam Traps

Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.
The Floral Establishment of Mr. George Reinberg, Chicago, Ill., is equipped with **24 Morehead Traps.**
Repeat orders. See the point?
——Write for particulars and a 30-day free trial.——

MOREHEAD MFG. CO., 1043 Grand River Avenue, **Detroit, Mich.**

"DETROIT" RETURN TRAPS



"Detroit" Return Trap. (Patented)

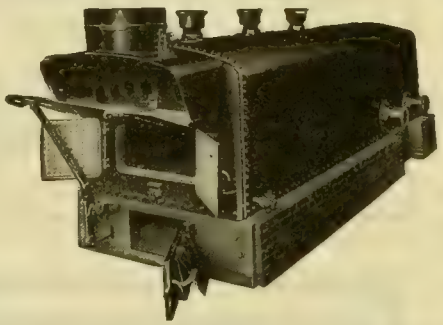
Will keep any Steam heating system free from water making every foot hot and efficient, returning automatically all water of condensation directly into the boiler—**hot**—and without a pump.

The Greatest Fuel Saver ever Offered any Florist.

Write size of boiler and number of square feet of glass IT WILL PAY YOU.

AMERICAN BLOWER COMPANY

Dept A. F. DETROIT, MICH.



SEE HOW WELL THEY LIKE ME

150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906.

Ask for list of users and get acquainted with the men who know.

Catalogue and prices on application.

KROESCHELL BROS. CO., 45 Erie St... ...CHICAGO.

PATENT APPLIED FOR.

Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM MOLL,
1664 Columbus Rd., CLEVELAND O.

STUTTLE'S
Patent Pipe Clamp

Cheap as the cheapest joint in use, and 100 per cent. superior. For particulars write the inventor and patentee.

HENRY STUTTLE, Batavia, Ill.

The Superior Improved Fired Boiler

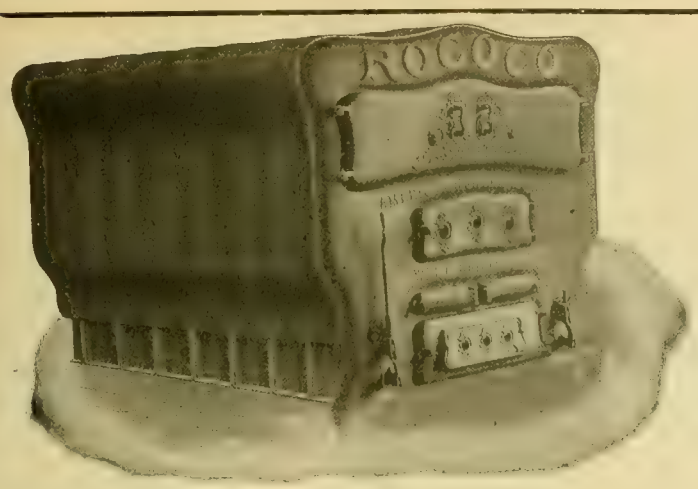
Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use: shipped on skids ready for installation. Specially designed for greenhouse use.

Investigate before buying.

Catalogue and Prices on Application.

Superior Machine & Boiler Works,
125-133 W. Superior St. CHICAGO, ILL.



SAVE EVERY CENT

The ROCOCO

Steam or water boiler will do its share.
A boiler built for practical florists.
Boilers Perfect... ...Prices Right.

American Heater Fdy. Co.

West Chicago, Illinois.

WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
Send for Catalog and Prices.
S. WILKS MFG. CO.,
3525 Shields Ave. CHICAGO.

CHRIS. PFEIFFER BOILER CO.,
66-68 Michigan Street, CHICAGO.
We build a special steel hot water boiler shipped ready for operation. No brick required.
Phones; Main 4361. 4399.

STEEL Return Tubular BOILERS
The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.
JOHNSTON HEATING CO.,
138 East 31st St., NEW YORK.

Arthur Cowee, gladiolus specialist, Berlin, was in the city recently and showed a Ponderosa lemon, weighing 22 ounces, raised in the greenhouses of J. E. Sambrook & Co. in Berlin. The lemon was one of 11 borne by a tree which is five years old and three and a half feet high. Mr. Cowee reports an increased demand for his bulbous stock owing mainly to the short crop last season in many parts of the country due to the drought. He has refused a number of large foreign orders so that he could fill more readily the many domestic orders he has received. He is thinking of increasing the area under cultivation this season.

Geo. Russell of Whittle Bros., is a bowler of local fame. Recently he went to Utica and in a match rolled high total, three games 718, and broke the record for that city.

R. D.

EAST DEFIANCE, O.—Karl Scharffenberger has let to Geo. M. Garland, Desplaines, Ill., the contract for his new greenhouses of steel and concrete construction. The houses will be 44x100 feet.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.
Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates: 100 lbs. pressure.
1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler. 60 horse power. 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell. ⅝ heads: with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers. A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$600.**

Boiler Flues. Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted: 50 4½-in. tubes: 110 lbs. pressure.
4-72x18 Horizontal tubular boilers, 100 lbs. pressure.
4-72x16 Horizontal tubular boilers, 95 lbs. pressure.
2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.
8-60x16 Horizontal tubular boilers, 100 lbs. pressure.
2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted: 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!
Mailed free to all who request a copy: greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent.
Ask for Our Latest 500-page Catalogue No 47. It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.
CHICAGO HOUSE WRECKING CO., 35th and Iron Streets, CHICAGO.

OAKLAND, CALIF.—The store of H. M. Sanborn, Fourteenth and Clay streets, and within one block of the police station, was entered by burglars March 11.

CLINTON, MASS.—A. W. Schneider, foreman for E. W. Breed, who has been seriously ill with pneumonia has now recovered.

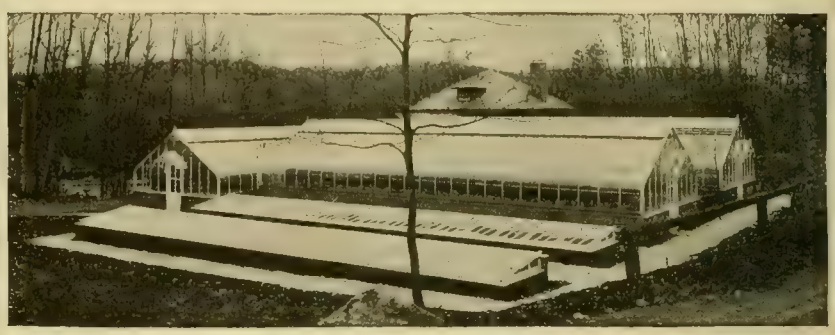
A WIRELESS MESSAGE
IF YOU WANT
BUY FROM WHO RUNS THE IN THE YOU WILL WEAR A CAUSED BY FROM GROWN IN
PHIL FOLEY FACTORY CITY OF CHICAGO. SMILE PROFITS CROPS HOUSES
BIG
RESULTS
WESTERN, ARTESIAN AND CAMPBELL AVS. 25TH TO 26TH STS.
CHICAGO
BUY YOUR BUILDING MATERIAL WOOD IRON GLASS FROM FOLEY

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT
76-78 Wabash Ave., CHICAGO



They Admit More Light

Because they have wider glass, fewer and smaller framing members and no gutter at eave.

Not only the lightest, simplest, strongest but the most enduring houses; for attractiveness and productiveness and low cost of maintenace, unequalled.

The ideal construction for private estates, parks, public institutions and florists' showrooms.

Send for Catalog.

U-BAR GREENHOUSES

PIERSON U-BAR CO.
DESIGNERS AND BUILDERS
1 MADISON AVE. NEW YORK

Have You Heard About the Sash Bar Hinge?

It is the only hinge to use on your greenhouse if you have ventilators opening at the ridge.

Write us, and we will tell you about it.

JOHN C. MONINGER CO.
CHICAGO
113 E. Blackhawk Street.

Cleveland.

TRADE ERRATIC.

Business the past week has been very irregular, some days quite brisk and on others nothing doing. Roses, with the exception of Richmond and American Beauty, are coming in larger quantities; the quality was never better. Prices as a result have weakened considerably but on an average are better than last year. Carnations seem to be going off crop and the prices have stiffened on some colors, very noticeable being white. The prospects for Easter for carnations seems like a short market, for the heavy crop will be in the end of April or the first half of May. Easter lilies are short of the demand and will be until Easter as most lots of this stock will need every day to bring them in on time. Sweet peas and lily of the valley have a good call and violets have been in better demand with the bright weather. Asparagus plumosus is still scarce but adiantum is being received in larger quantities which, at present, are about equal to the demand. Calendula and forget-me-nots, snapdragon and all flowers in the novelty class are good stock and eagerly sought for. Smilax will be a short item in this market in a few weeks as all the growers are nearly cut out and as the call will be greater from now on the available supply will hardly be enough. Ohio and eastern dagger and fancy ferns are now selling for $2 per 1,000, some southern fancy of good grade selling for $1.75, with the supply limited and prospects for a higher price before long. Southern smilax has had a good call the past two weeks which has cleaned up the available supply for the time being.

NOTES.

Chas. Bastian has taken the place of Miss Nettie Heideman as secretary of The Cleveland Florists' Exchange, the change being made on account of Miss Heideman's poor health lately and, as the increasing business of this firm required more help, the change was made in the slow season. From now on the service here will be the best obtainable.

Those returning from the Buffalo rose show report a very fine display and a most enjoyable time. This delegation stopped over on its return from the show at Mentor and visited the establishment of C. Merkel & Son. This concern makes a specialty of Easter plants of all kinds; the stock was never in finer shape nor as large and, with good weather from now on, they should have a grand Easter trade.

Frank Smith of Smith & Fetters has gone on his eastern trip in quest of novelties for Easter.

Visitors: L. L. Lamborn, Alliance; M. A. Weaver, Massillon; S. J. Green of H. Bayersdorfer & Co., Philadelphia, Pa.; M. Shattls of Lion & Co., New York.

FORESTER.

ROSES AND CYPRIPEDIUMS.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, APRIL 3, 1909.** **No. 1087**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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Address all correspondence, subscriptions, etc., American Florist Co., 324 Dearborn St., Chicago.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. M. A. PATTEN, Tewksbury, Mass., President; ALBERT M. HERR, Lancaster, Pa., Secretary.

ALBERT M. HERR, President-elect; A. F. J. BAUR, Secretary-elect.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo., Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

April.

How like our lives is April's day,
Alternate smiles and tears.
Sad and joyful, dark and bright,
Hope merged in trembling fears.

When fortune smiles and friends are near,
The way seems paved with flowers.
And April scarcely sheds a tear
From dawn to twilight hours.

But when our purposes are crossed
We hardly lift our eyes,
When April's day, with gentle rain,
Bids sleeping spring arise.

While hid behind the lowering clouds
The sunshine goes astray
Till bursting forth from sombre skies
It glorifies the way

And turns to pearls the tears that dim
Our lives—and April's day.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Freesias.

As the freesias go over, any bulbs that are to be saved must be allowed to finish their growth in the greenhouse or a frame and then the flats or pots containing them should be placed in the full sun, drying them off by degrees until the soil is dust dry and then giving them a thorough baking in the sun. Freesias, more, perhaps, than almost any other bulbous subject we grow, should have this thorough ripening treatment, but only after the growth has been finished. Bulbs dried out suddenly shrivel and lose weight and consequently start weakly and flower poorly. When thoroughly dried shake them out, select the best for flowering and place them in a cool dry store until needed for potting in August.

Tuberoses.

Given attention to a few minor details, tuberoses are about the easiest flowering bulbs to grow or force that we know. There is nothing difficult from first to last, and if good stock is obtained from a reliable house, practically every bulb will flower. They are especially useful in filling up odd spaces on the benches; if wanted early they answer readily to heat while, if necessary, the bulbs may be held over and started whenever the demand for them is likely to be good. For the earliest supplies pot culture is best and, to save room, each bulb may be placed in a pot just large enough to take it easily and placed over a brisk bottom heat. A few may start without good foliage and produce poor spikes, but the percentage will be very small and it is worth risking where very early flowers are needed. Let them have strong heat and abundant atmospheric moisture right along and when well started repot into 4-inch. The moisture is necessary to keep thrips in check, as this is the worst insect enemy to the tuberose. When the flowers are needed later pot the bulbs or place them in flats and give them time to get established and make a little root before giving any heat. These will make better foliage and probably finer spikes. For later use keep the bulbs in a cool, dry place and pot or flat them as needed. Practically no shade is needed during the time the plants are growing and the spikes forming, but a moderately heavy shade should be applied as soon as the lower flowers begin to open, and the atmosphere must be kept drier to prevent the flowers turning yellow. If good soil is used very little feeding is needed, but if it is at all poor then feed liberally with any good fertilizer from the time the pots or flats are filled with roots until the flowers begin to open.

Dahlias.

Much of the dissatisfaction with spring-propagated dahlias may be traced directly to the treatment of the plants after they are rooted. Instead of being properly hardened off they are rushed along in heat to produce more cuttings and then allowed to run up tall and spindly. In consequence, when they are planted out later, they have to begin over again to make stiff flowering shoots. No matter how well grown, spring propagated stock cannot be as good as plants from pot roots or divisions, but with ordinary care they will do well. As soon as the cuttings are well rooted they should be potted into 3-inch or 4-inch pots. Growers for shipping trade in pots cannot do this, as they have to save room and weight for shipping, but the grower who needs plants for his own use can do so. They take no more room in the benches, for the 2-inch pots have to be stood apart as soon as the plants begin to develop, so take as much room as the larger ones. It is the plant that takes the room, not the pot. After potting, place the plants in a slightly shaded house at a temperature of about 60° for a few days, until they recover from the disturbance, then gradually increase the new light and air and reduce the temperature, until the plants are hard and vigorous enough to go to a cool frame, only protected at night against frost, or on benches in a cool, fully ventilated greenhouse. Keep them hard and they will grow quite fast enough and when planted outdoors in June they will take at once to the soil and grow away rapidly. Pot roots that have been held over winter, and old clumps lifted in fall, should be brought to the light as soon as room can be spared and started gently in a cool house or frame. Division of the roots is more easily carried out before the plants

start than after, as the shoots are not so liable to be snapped out. The cactus varieties especially flower more freely from this class of roots than from stock propagated in spring.

Spring Treatment of Cattleyas.

It may seem paradoxical, but it is none the less a fact that underwatering of cattleyas in autumn leads to overwatering and consequent damping of the young growths in spring. When the growing season is drawing to a close and ripening or, more correctly, developing, the pseudobulbs is in order, then the grower too often thinks that he must reduce the water supply. This is wrong; the plants are in need of plenty of sustenance at this time to develop the bulbs and, in the case of some species, the forming flowers that rest in embryo during the winter. Withhold the water and both bulbs and flowers will be weak. The connection between this and the spring growths may not at once be apparent, but there is a great difference in the shoots from really well developed bulbs and those that are only partially developed. There is also a difference in the bulbs themselves, for the latter will shrivel after the shoots have started and the grower naturally thinks to mend matters by watering more freely in spring, thus making the compost wet and unfit for the new roots to enter, which he would not do if the old bulbs kept plump. This, then, explains the seeming paradox. Any one who has plants in the condition indicated will make matters worse by heavy watering now. Keep up plenty of atmospheric moisture, but allow the compost to remain comparatively dry. Then the roots will soon take a hold of the latter and water in plenty can be given, as the roots will take care of it. Up to the time that the sheaths open and form a cup with the growing leaf light dewing overhead on bright days is necessary, but when this cup-like formation exists the water must be used with great caution, or much injury is likely to accrue from damping. A suitable night temperature now for all cattleyas of the labiata group is from 55° to 60°, always with a little air on. C. citrina may be kept cooler, while C. superba likes more heat, probably, than any other species.

Care of Young Stock.

No matter what the class of stock grown, its care in the earlier stages is of the utmost importance. Plants of carnations, roses, or anything else that are neglected in a young state may recover in the benches, but time is lost in the process and the ultimate results are never as good as where they are carefully looked after from the first. Every leaf on a young rose plant is a producer of roots and should be carefully preserved. Plants staged too close together or watered in block instead of being carefully examined as the work proceeds and watered when necessary lose their foliage when moved and the air gets between them, consequently when planted the first leaves are small and more or less useless as root producers. Carnations similarly treated run up spindly and are equally unsatisfactory, while rust and kindred diseases always run riot among plants so weakened. Annual and biennial plants, such as asters, stocks, wallflowers, antirrhinums and the like are simply useless when neglected either in the seed bed or later. They run up to small wiry stems, flower on the top and that is the end of them. This emphasizes the point we have often brought forward, viz.: Never propagate more stock than can be profitably treated from the cutting or seedling stage onwards. Better grow half the quantity and bring it to perfection than start a large batch and wind up with a lot of useless, unprofitable stock.

THE RETAIL TRADE

EASTERN retailers report a considerable increase in advance orders for Palm Sunday. Very large consignments of palm leaves have been arriving at New York from Savannah.

THE first of the season's Easter lilies arrived in New York March 22 on the steamships Prince George and Trinidad. Most of the lilies are in the bud state. There was a good natured rivalry between the two boats as to which would get into port first, and the Prince George won by the narrow margin of 15 minutes though she started some 4½ hours later than the Trinidad.

An All-Pink Easter Basket.

SEE SUPPLEMENT WITH THIS ISSUE.

The popularity of the beautiful Lady Gay rambler rose at the coming holiday of Easter is likely to be even greater than it was last year. It is a most attractive variety, lending itself to artistic methods of arrangement, and some of the most beautiful baskets seen last Easter, as shown in our supplementary illustration, contained one or more plants of it. There is something about the bright pink color of this rose that does not clash with that of other flowers and it gives an effect of lightness and grace that is wanting in many other varieties. The basket shown is an all pink creation, simple, yet very effective, the azalea being of this color and also the ribbon used to decorate it.

This making up of tasty and attractive baskets is a profitable branch of the retailer's business and must on no account be overlooked. Nor must it be shelved until the last minute but the baskets, the plants and all other necessary material must be on hand. It always a winning card to make up one or two good baskets and place in the window a few days before Easter. This may be done in many cases without turning the plants out of their pots or injuring them in any way, so that, even if the baskets are not sold, which is unlikely, the stock is still saleable. A certain amount of crowding is inevitable in making up plant baskets. To get a really good display is impossible without, in some measure, hiding a certain part of the plants. But as will be seen in the basket illustrated it is possible to show the habit of the individual plants clearly and effectively and yet have a well filled up, showy and artistic basket.

EASTER BASKET BY WM. J. SMYTHE, CHICAGO.

Hydrangea, Crimson Rambler Rose, Pandanus and Foliage Begonias.

At Easter the number of plants available is large; there are, besides the Easter lilies and roses, hydrangeas, begonias of the foliage kinds, bulbous stock in greater

variety than at any other time, primulas, ferns and many others so there need be no lack of variety. Choosing suitable baskets for the plants and carefully avoiding anything in the ribbon used that will contrast badly with the flowers are also important points to study.

Easter Baskets and Other Devices.

As Easter comes near, the retailer will be busy thinking out new and effective schemes for the delectation of his patrons and, incidentally, transferring a little of their spare cash to his own bank account. The prominent note now in the best design work is simplicity, and our illustrations herewith show how this can be combined with grace and lightness which, coupled with a well thought out color scheme, is of the greatest assistance in the worthy object above mentioned. Wm. J. Smythe, of Thirty-first street and Michigan avenue, Chicago, has long been noted for the exquisite work he carries out and our illustrations of his work show his hand has not lost its cunning. The basket in which Crimson Rambler rose is associated with the hydrangea was a telling one and Mr. Smythe used an excellent form of foliage begonia that was very attractive. In the other basket the white chiffon ribbon gave a very light and tasty effect to the plants, in this case Crimson Rambler and Easter lilies being chiefly used. The Spanish irises, though not in any way particularly arranged, the bunch having been taken from his ice-box and photographed, show what a graceful and beautiful flower this is. It should be much more used.

In bulbous stock, azaleas and Easter plants generally, A. McAdams of 316 Fifty-third street, Chicago, is always well in the lead and his arrangements of these always sell well in his locality. They are characterized by tasteful arrangement and color combination, while his bulb baskets, pans and boxes are simple and effective. The red tulips, Voorbaack, shown herewith are from plants picked out at random from his Easter stock and of this he annually grows a large quantity. The double daffodil is well done here as may be seen by the pretty little box illustrated which is a good seller around the holiday. There is every prospect, with the returning tide of prosperity to business generally, that the Easter trade this year will be of a character not usually seen and record sales are expected in all lines. Be in line for this and don't hesitate to stock up well for it is one of the most annoying things possible to have to turn away good money owing to want of stock.

Flowers in the New York Stores.

With the near approach of Easter, the thoughts of the trade, quite naturally, are considerably devoted to lilies. While there are plenty of cut blooms to supply all demands and small quantities of pot stock has appeared, the lily crop, in the region that supplies this market, is a very poor one. At present, all the evidence goes to show that at Easter, the roses, Lady Gay, Dorothy Perkins, Crimson Rambler and other fine pot stock will take precedence over the lilies. To a certain extent this was the case last year when lilies were of better quality than now. American Beauty roses, which arrived in limited quantities during February, are now in abundant supply. The leading retail stores, which are always considered the best customers for special American Beauty, are not buying heavily, and as a consequence, prices are down and the speculators now have their innings. In this journal there recently appeared a communication from the president of the Retail Association of this city. We readily concede that the tone and temper of that article was admirable. In all fairness, however, the following question should be answered. If the regular dealers in a perishable commodity cannot or will not take all that is offered, what is to become of the surplus? We are not in sympathy with speculators or unlicensed vendors, but we do have in mind the grower, who, in too many instances, to our knowledge, has been made the "goat" in the petty quarrels between other branches of the trade. Under the conditions of a surplus in Lent, fine special American Beauties have, within the past two weeks, stood a good chance of getting into the hands of anybody that thought they could turn an honest penny by handling them.

Nearly the same conditions as recited above, have prevailed with reference to the tea roses, with the saving clause that the shorter grades of the latter are more suitable for funeral work; but, taken altogether, they are in much greater supply than the "Beauties"; they too fall into the hands of the street vendors. Splendid blooms of Richmond, Killarney, Chatenay and Bridesmaid may now be seen in the stores. The stem development of Richmond and Chatenay is at this time particularly noteworthy and they are at present showing their best points. While the supply of orchids is not heavy, there is more than enough to supply all demands. A leading dealer in orchids said recently that he believed this season would have been worse than last, with a panic prevailing, had it not been for the fact that nearly every stock was scarcer than last season. No fault can be found with the quality of carnations now being offered. Alma Ward, Mrs. Ward, Enchantress and its sports, Beacon, Victory, Lady Bountiful and other varieties may daily be seen in fine development of bloom and stem. Though Genevieve Lord is by some now classed among the old and obsolete varieties, splendid blooms of it may be seen in this market. Weber's Toreador, variegated, has recently been attracting considerable attention.

Though southern narcissus is on the market, we do not notice that it is being to any extent handled by the leading stores. The most noteworthy variety of yellow narcissus now seen is Emperor, which brings the best prices, as seems reasonable, as in our opinion it surpasses all other varieties. N. poeticus is frequently seen and can be very advantageously used in making up mixed bouquets. There is a variety of good tulips on the market, but Murillo seems to be the most popular and the best seller. Excellent blooms of amaryllis are now frequently seen and a large bunch makes a very attractive feature in a show window. The same may be said of the snapdragons (antirrhinum) which are in fine quality. Of sweet peas there is almost a surplus and they vary in quality almost

BASKET BY A. McADAMS, CHICAGO.

Easter Lilies, Azaleas, Hyacinths and Ferns.

as much as in color. Beautiful clusters of long stemmed pink and white varieties are easily found, but all the shades are well represented. Many growers seem to be taking Zvolanek's advice to "grow sweet peas when another crop fails."

The violet question has been the cause of so much agitation in the trade that we refer to it with reluctance. While the violet has, so to speak, been traveling a rocky road, it will always be in demand and cannot be ignored in a review of the stock in trade of the retailer. At present, as for some time past, excellent blooms of single violets are seen about the stores and with many customers they are popular. Both pink and white stocks have recently been very noticeable. As usual there are many singles, but a double white, much resembling Rawson's Cut and Come Again, of years ago, is seen in considerable quantity and is a really beautiful and useful flower. Forget-me-nots may be had in quantity. Being of the humble order of the flora, from the present day viewpoint, it is not a great seller, but pleasing to the eyes of the old fashioned folks. There are more than enough gardenias on the market to supply all demands, but many of them, in comparison to what have been grown in the past, are of inferior quality. It almost appears that there is danger of this industry being overdone. A better quality of blooms and less of them would better supply the demand. There is an excellent quality of lilac in both colors, both cut and in pots, to be seen. While our latter day forcing has brought into the market much that is attractive and useful, we think that few stocks, on these points, can surpass the lilac. In its even larger sphere, practically the same may be said of lily of the valley, of which there is now a constant supply of fine quality. There are a number of other flowers now seen which, while considered of minor importance, are dear to the hearts of many patrons of the retail stores. Big bunches of pansies may be had for small outlay and, if they do not yield large profits, they keep green the memories of "ye olden time."

Crepe Chasing.

ED. AMERICAN FLORIST:—

Do you think it is proper for a retailer to solicit orders for funeral work at a house where there is a death in the family?

Michigan. FLORIST.

Decidedly not. Anyone with a spark of good feeling himself would respect those of bereaved friends and relatives and, at such a time, would not intrude upon their sorrow. The practice is of such a despicable nature that no one worthy the name of a florist or a business man would be guilty of it. Stress of business competition, slackness of trade, or other excuses sometimes given for such vampire-like methods do not help the matter any and the worst feature of it all is that it is no use appealing to the better feelings of such mercenary ghouls—they have none. Boycotting by all who have ordinary human tendencies and feelings would appear to be the only thing to meet their case. We are sorry indeed to hear of such instances as you mention.

ROCKVILLE, CONN.—Calvery & Risley, who have greenhouses at Hartford, opened a retail store in the Citizens' block April 1. They have had the place entirely refitted.

FLORISTS' PALMS.

PHOENIX Roebelenii is always good property.

LOOK out for the dry pots in the center of the benches.

NOTHING but the best loam should be used in the compost for palms.

WATCH for "stars" in the glass which often ruin fine specimen palms by burning the foliage.

NITRATE OF SODA is perhaps the finest stimulant for starved palms, but its use must be followed by that of some other good manure as it stimulates rather than feeds.

Notes in Season.

The latter part of April and beginning of May should see the repotting of the palms in full swing, as the season is none too long to get the required growth by autumn, and he who grows for the trade really needs to have much of his stock of this class of plants in saleable condition by September 15, for that date marks the time of delivery for much of the wholesale dealings in palms. Stock that needs cleaning should have been attended to first, this operation being best done in the early spring before the time for repotting, for there are few establishments, or possibly none, in which no insect-infested corners are to be found. The worst places in a greenhouse for the propagation of insects are usually to be found in the back corners of a bench at the warm end of the house, and in such corners scale, mealy bug, red spider and thrips are likely to establish their colonies. There is an advantage in setting over the stock on a bench from time to time for, by this means, the plants are turned about and sized up, and change places enough to give a better chance to assist in the cleaning process by vigorous syringing.

Syringing will not clean a plant that is covered with scale, but will do much toward keeping a clean plant in that condition. The method often adopted of plunging young palms in ashes on the bench has the advantage of holding these somewhat top-heavy subjects up while the hose is played upon them vigorously, for every experienced man knows that it is difficult to syringe thoroughly among stock of this character without knocking the plants over. In repotting it is not always the best practice to repot an entire lot of young stock at the same time, there always being some weak plants in a lot, and as these latter are more likely to retain their weak character by over-potting, it makes the whole batch irregular. To have even stock one should do some selecting, arranging the plants in such a way as to give proper space and keeping the culls by themselves, and if the culls are very poor give them a space on the dump rather than in the houses. Elaborate arrangements for drainage in potting small palms are a waste of time, and a single crock properly placed with the concave side down will answer the purpose quite as well as those careful arrangements of large and small crocks to which our fathers were so partial. Of course some drainage material is necessary, but the single crock will answer for any size pot from 3-inch to 6-inch, provided that the crock so used is large enough to cover the hole in the pot.

EASTER BASKET BY WM. J. SMYTHE, CHICAGO.

Crimson Rambler Rose, Begonias, Easter Lilies and Asparagus.

Clean pots are decidedly the best to use for palms, for the pots get foul quick enough amid the heat and moisture that prevails in a palm range during the summer months. Pot firmly, but in doing so, be sure to work the new soil all around the old ball, so that no unfilled spaces may be found when the plant is next turned out of its pot. And to pot properly, a thin rammer or potting stick, is required for all pots larger than four inches in diameter. Some growers favor small shifts in poting palms, namely, from one size pot to the next, but if the stock is in proper condition there is no risk in shifting from a 4-inch pot to a 6-inch size, or from a 6-inch to an 8-inch pot, at this season, though there is a possibility of overdoing the matter late in the autumn, and I would then advise more caution. The proper compost for palm growing has frequently been described in the AMERICAN FLORIST, and it may suffice at this time to state that the best foundation for such compost is well-rotted sod from an old pasture, this having been stacked up the preceding summer with about one-fifth of good manure, or, in other words, one load of manure to four of sod. If the soil is naturally heavy, it will be improved by adding some sand, and, when about to use the soil, a good sprinkling of bone dust will be beneficial in most cases.

In my experience, bone dust did not seem specially helpful to arecas, but was distinctly beneficial to latanias and kentias, the improvement being most marked in the case of the latanias. It has already been remarked that any plants requiring cleaning should have this operation performed before they are repotted, and the special reason for this is found in the fact that when a newly potted plant is cleaned, even by careful hands, it is very likely to become loosened around the base, and no plant grows as well when in that condition. That shading is needful for the palms has naturally been recognized some weeks previous to this date, and it is especially necessary with the newly potted stock in order that these plants shall recover color, and go ahead rapidly. As the warmer days come on much more ventilation will be required, but the supply of moisture in the atmosphere must be kept up by syringing the plants, and spraying the walks and under the benches.

It is usually safest to continue a little fire heat in the palm houses until June 1 to June 15, and especially is this needed for the benefit of the recently potted stock, the few tons of coal thus used being an expense that will be much more than returned in the gain of growth. Some of the palm seeds are being received from abroad at this time, the spring crop of kentias being now due, and these should be planted just as soon as possible, for it is many months since they were gathered, and the majority of palm seeds are not good keepers, particularly if allowed to get very dry. When planted, these seeds must be kept moist and warm to help germination, but the soil should not become sodden or the germs may rot. Almost any light soil will answer for the germination of kentia seeds, provided that the proper conditions of heat and moisture are given, but the percentage is uncertain.

W. H. TAPLIN.

CHRYSANTHEMUMS

VIRGINIA POEHLMANN is one of the very scarce varieties this season.

The Planting Season.

It is only 30 days to May, the time for planting early commercial sorts. To secure early buds it is necessary to plant early. Each year orders for early varieties continue into July and while such kinds are often in stock and are supplied, the results must be far from satisfactory. If the late buyers would put a few figures together the importance of early benching would be apparent. Most early varieties require 8 to 10 weeks to furnish the blooms after the buds are selected. Golden Glow is the only exception among the large flowering section, which has perfected blooms in six weeks after disbudding. In planting stock from small pots we should allow at least eight weeks more to secure vigor and sufficient length of stem. From this it will be seen not less than four months are required for best results, which means that from the last week of May to June 15, is the time when this work should receive attention.

Those who desire the early blooms have no time to lose in deciding upon their requirements. If the stock is to be propagated the cuttings should be put in at once, or, if they are to be purchased, the order should be placed without delay so as to have everything in readiness. Some of the varieties are increased so rapidly that ample stock can be secured without doubt, while such kinds as Alice Byron, Virginia Poehlmann, etc., which remain in a semi-dormant condition until the sun stimulates them, are usually not to be had in prime condition until April or May. Of such there is never a surplus; they are generally short of the demand. The foregoing is also applicable to those interested in exhibition varieties. The date for planting, especially when the first bud (usually termed crown bud) is to be secured, is identical. The great difference is in the time required after the buds are selected as the exhibition sorts as a rule do not develop as fast as the earlies.

BLUE SPANISH IRISES.

In some cases the buds that appear on August 10 do not come to maturity until November 5, while others reach full development by October 20. These pecularities are not under control to any great extent. The date of flowering seems to be established in each case, but is often influenced by climatic conditions. Some seasons the earlies do not get out of the way for the midseason sorts. The only explanation we can give for this unnatural state of affairs is that the intense heat of summer occasionally is prolonged into autumn, and this retards the development of the early varieties. When the change comes and the conditions are more congenial the latter sorts progress as rapidly as the early.

ELMER D. SMITH.

Notes in Season.

It is time to get the exhibition stock in shape as nearly all of the best varieties for exhibition require a long season of growth, consequently, not any time should be lost in starting the plants. Cuttings now ready to be taken from the sand should be potted without delay. Most of the varieties will require every

day's growth from now till fall to get into the best exhibition state. February propagated stock, now well rooted in 2½-inch pots, should be shifted into larger sizes. With this repotting make the soil a little richer than that used in potting from the sand. It is well to bear in mind that the most important point connected with the growing of exhibition chrysanthemums is to build up a stout, vigorous, constitution. Give the plants plenty of air and maintain a night temperature of 45°-50°. During the daytime, ventilate well on every favorable occasion, guarding particularly against sudden advances in the temperature which quickly cause a soft growth.

TULIP RED VOORBACK AS AN EASTER PLANT.

The specimen bush and standard plants for exhibition should now be well under way. The one most important item connected with their culture just at this time is that of keeping them in active growth. Give them every encouragement by potting into larger pots as soon as they require it, also, with the bush specimens, give close attention to keeping the growths pinched back and, as soon as the standards have attained the required length of stem, commence to pinch back the growths to form the heads, It is absolutely necessary that these exhibition plants receive all the light and air possible, and when well rooted in the pots they will take considerable water and must not be allowed to wilt for the want of it. Cuttings of the commercial varieties, prominent also for exhibition, should now be put in the sand. Many of these produce the best blooms if taken from the sand about April 15-20 and potted into 2½-inch pots. This gives them plenty of time to make sturdy, vigorous stock for planting in June.

C. W. JOHNSON.

Solid Beds Versus Benches.

ED. AMERICAN FLORIST:

Please tell me the best method of growing chrysanthemums on solid benches. Some years ago I grew fine blooms and now I want to change again from raised to solid beds, but some growers don't recommend it. Can you tell me the difference? GROWER.

It is difficult to give instructions to others on a subject that one has had but little or no experience with. "Grower" infers he was once successful in growing on solid beds, and this being the case we fear he will gain little information from what we have to offer. The important points leading up to the production of fine blooms, are ample drainage, rich soil not to exceed five inches in depth and of a moderately heavy texture. As previously stated, our experience with this system has been very limited and, failing to succeed some years ago, we discontinued it entirely. Wherever we have seen chrysanthemums growing on solid beds, we have noticed the general average not as good, lacking in uniformity of size and finish. If we were growing under such conditions, we would try and provide the conditions mentioned above.

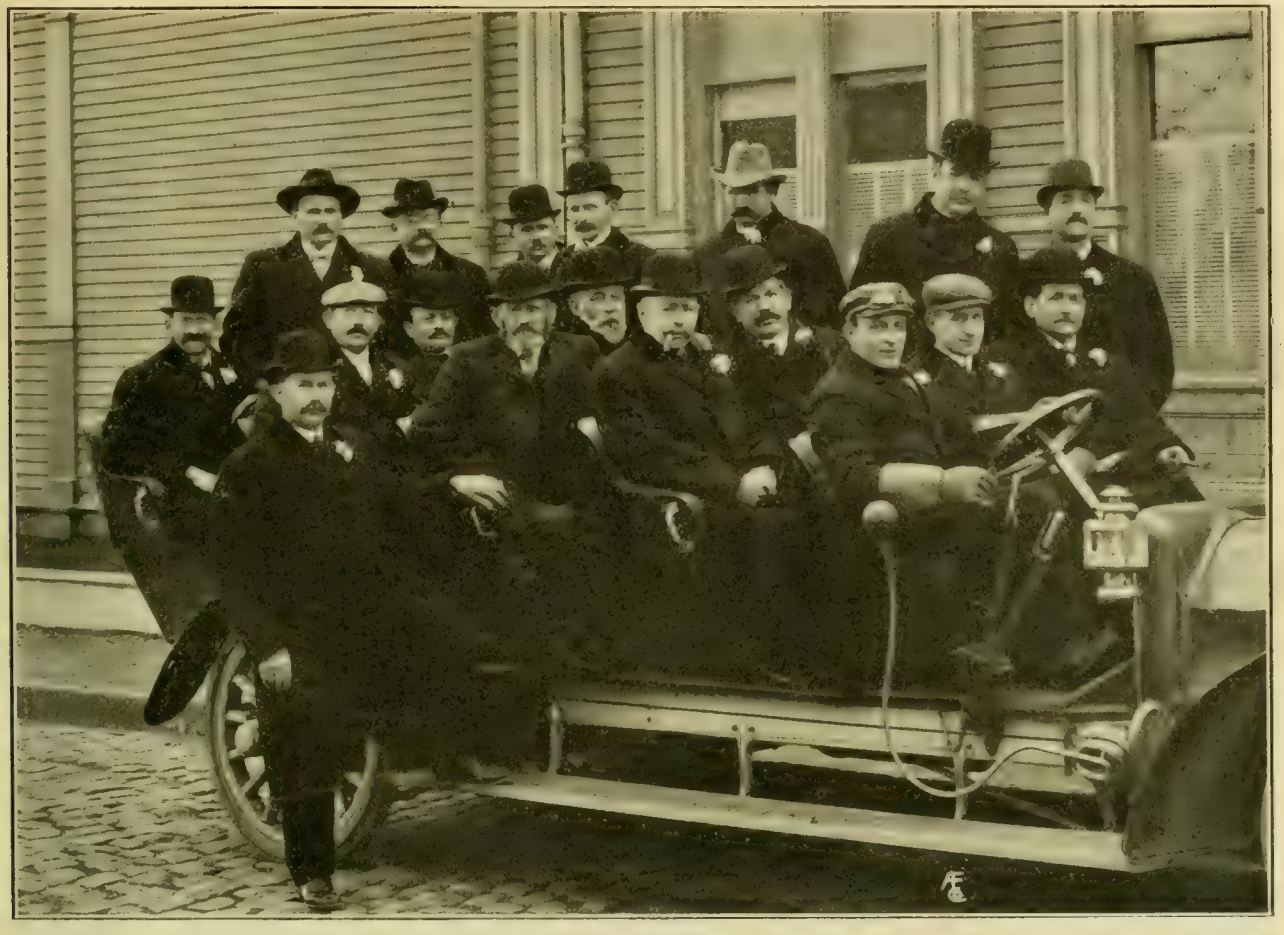
Raised benches dry out faster than solid beds hence great care in watering, both during the growing season and flowering period, should be exercised. The foliage is the best index to the amount required. As long as it is bright green there is no fear that an over supply has been administered, but it should be curtailed at the first indication of the leaves turning yellow. From this we do not refer to the lower leaves but the top of the plant, which will assume a yellow or sickly appearance from either lack of drainage or over supply. A prudent person will get into touch with the plants under his care, being careful not to overwater solid beds, particularly in dark lowery weather, or allow raised benches to suffer for the want of it, especially in hot days. We do not infer that good blooms can not be produced where this system is employed, but feel confident the conditions are better under control and as a whole are more satisfactory with raised benches. ELMER D. SMITH.

Hardy Ferns.

The greatly increased interest that is being taken in hardy native and other ferns, an increase so important that some of our principal nurserymen are going into their culture to a quite unprecedented extent, lends special interest to a paper on this subject, recently reprinted, that was read by J. F. Huss at a meeting of the New Haven, Conn., Horticultural Society last year. Mr. Huss is an old fern man and of late years he has gone somewhat largely into the culture of hardy species having been led into it partly by a desire to clothe a hill with a northwest aspect on which "nothing would grow." The result was so satisfactory that the plantings were considerably increased, not only native species being used, but hardy kinds from all over the world wherever Mr. Huss had friends or correspondents that would send him spores. He speaks very highly of some of the Connecticut ferns which he describes as very abundant and beautiful.

Coming to their culture Mr. Huss wisely advises the would-be fern grower to study the requirements of the ferns rather than the appearance of the rock work and, in all cases, to provide against the disastrous effect of high winds which are injurious to all of them. Overhanging trees and windbreaks are recommended and a good depth of soil. Further protection for the smaller varieties is necessary and, to provide this, the planting of the more robust

DAFFODILS AND FERNS IN BIRCH BARK BOX.



NEW YORK AND NEW JERSEY ASSOCIATION OF PLANT GROWERS ON ITS SECOND ANNUAL OUTING, MARCH 15.

kinds of polystichum and others is recommended. A considerable list of the tender choice kinds is given with notes on suitable positions and soils for the best results. Deciduous and evergreen kinds should be planted together so as to prevent a bare appearance at any time and early fall planting is advisable, though any time from October until March is suitable provided the soil is not frozen. When moving plants in a wild state of active growth, the fronds should all be cut off before planting to allow the roots to grow and form a new crown for the ensuing year. Moisture in summer is also noted as a very important point.

Propagation does not differ much from that followed for indoor ferns, viz.; by division, by spores and by the contact method with those kinds that are proliferous or produce small plants on the older fronds. Mr. Huss advises the use of pots filled to within two inches of the top with cinders covering this with rough sphagnum moss and for soil, using a mixture of loam, peat, leaf mould and sand or finely broken brick. The soil should be sterilized before use and well moistened. The pots should be stood in saucers of water and covered with panes of glass which must be turned over or sponged off every morning to remove superfluous moisture. In from three to six weeks the surface will be covered with a moss-like substance which is replanted or pricked off in other pots by means of a watchmaker's pinchers shifting the plants on as they become crowded. The first season the plants are grown in frames as it is desirable to have strong stock for planting. Mr. Huss winds up his notes by saying that "The whole culture is so fascinating for the lover of ferns that there is no obstacle in his way that he cannot overcome, no matter how difficult the task may be."

New York and N. J. Ass'n. of Plant Growers

SECOND ANNUAL OUTING.

The members of the New York and New Jersey Association of Plant Growers visited the establishments of fellow members on Long Island to inspect the Easter crops March 15. There were 18 members took part, and they traveled over the entire Long Island section in W. H. Siebrecht's large automobile.

One of the objects for which the association was incorporated is to foster the trade and to diffuse information as to pot plant growing. With this object in view the happy party called at almost every member's place on Long Island, and examined the plants in stock for the Easter trade. It was a very instructive day for the members, and the information which was gathered made it well worth the time which was lost during their absence from their own establishments. The association has followed this practice for two years and has found it so profitable that it intends to continue the same indefinitely.

The party started at the place of Herman Dreyer at Elmhurst, and from there proceeded to College Point and visited Anton Schultheis; after seeing all the houses in his establishment the members passed to Whitestone and visited Louis Dupuy, Pankok & Schumacker and the Hinode Floral Co. From there a long run was made to Jamaica, where they visited A. L. Miller's greenhouses and from there proceeded to Brooklyn, where, at Piel Bros., a bounteous course dinner, with liquid refreshments, was awaiting them. After dinner they proceeded to the establishment of John Scott, Flatbush, thence to Peter Wagner, Charles Zeller & Sons on Clarkson street, and also on Lefferts street, Brooklyn, thence to the houses of Louis Schmutz and Frank Manker. It took considerable time to go through each establishment, and when the rounds had been made it was after six o'clock and the party had enjoyed sufficient fresh air in the automobile to gather up a good appetite for the supper which was served to them in the Consumers' park.

The following members were in the party: Julius Roehrs, Sr., Herman Dreyer, Louis Dupuy, Frederick H. Dressel, Frank Manker, Herman Manner, A. L. Miller, John Miesem, Pankok & Schumacker, Herman C. Steinhoff, Herman Schoelzel, Anton Schultheis, John Scott, Louis Schmutz, Peter Wagner, Alfred L. Zeller, and Wm. H. Siebrecht, Jr., the secretary and attorney for the association. H. H. Lorenz had charge of the automobile. The photograph from which the accompanying illustration was made was taken just after the noon meal, when everybody felt happy and looked cheerful.

ATLANTA, GA.—B. H. Bostain, who formerly had charge of the floral department of the Nunally Co.'s store here, has been made general manager of the Whitehall street store and is receiving the congratulations of his friends on his promotion.

HARDY HERBACEOUS PERENNIALS.

The Iris and Its Culture.

The species I. Germanica is undoubtedly more common than any other type, particularly in the older gardens. In this purple is the predominating color. Purple King and Black Prince being best representatives. Iris Florentina, the orris root of commerce, is one of the most popular, and very deservedly so. For over 100 years it has occupied a conspicuous position in every large New England garden, and during this period has lost none of its popularity. Free blooming, with flowers of pearly whiteness, it annually leads the way to the charms of the early summer garden flowers. There are three forms—the common type just described, the variety Albicans, of a purer white, and Princess of Wales, even more floriferous, with slightly longer flowers and the most deliciously fragrant of any German iris.

The crowning beauty of all German irises is traceable to the blood of I. pallida, the broadest leaved of all, with sword-like foliage, often attaining a height of two and a half feet, and an inch and a half across the blade, according to J. Woodward Manning, in a paper read by him before the Massachusetts Horticultural Society. The flowers are borne on long stems, well above the foliage, altogether producing a most charming effect. The variety Dalmatica, sometimes known as Princess Beatrice, and occasionally in this country as Madam Almyra, is the finest, with immense flowers of a rich lavender blue, and with a charming though subtle fragrance. Delicata is of weaker growth, with lavender falls, shading to white and French grey standards. Hybridizing has not improved this species, as seen in the variety Queen of May, which, while beautiful, with its soft, rosy lilac, almost pink flowers, is a comparatively weak grower, though floriferous. The beautiful cross of the species with I. sambucina shown in the variety Madam Chereau is an exception, however, and this is a most delightful flower, with its pure white petals richly feathered with lilac. The varieties of German iris mentioned are but a fraction of those that can be purchased from horticultural sources; they represent, however, the best, and among them are varieties far advanced in horticultural merit over many of the more common varieties seen. Of clear yellow German irises we have two species, I. flavescens and I. aurea; both are good, the former attaining a height of three feet, with lemon yellow flowers, and the latter of dwarfer growth, with rich golden yellow flowers.

All of the irises with surface rhizomes are of the easiest cultivation, thriving in ordinary garden soils, requiring subdivision and replanting in rich soil as the clumps become large or the soil becomes exhausted. This replanting should be done as soon as the foliage shows signs of ripening, and must not be delayed so long that they may not become thoroughly re-established in the soil before winter. In planting it is better not to sink the rhizomes over an inch below the surface, unless the situation is naturally a very dry one. As the plants become established the rhizome soon assumes its proper elevation. Until of late few diseases troubled this class. Unfortunately, however, a seemingly microbic rot is found to affect the roots, so that the foliage becomes detached from the rhizome. The disease is little understood and no remedy has been proved effective, though it is quite possible that over richness of soil may serve to foster the disease.

Jacob's sword (Iris pseudacorus) occupies an intermediate position. Never being classed as a German iris it is a beautiful plant to associate along water courses, and yet will thrive admirably in ordinary garden soils. It has ample dark green foliage, makes a vigorous and healthy clump and bears abundantly rich golden yellow flowers with a conspicuous orange zone on the base of the falls. Two types are common, one with narrower petals than the other. The gladwin, or roast-beef plant (Iris fœtidissima), while pale blue in its typical form, in its variety Citrina is of a clear yellow, but the main interest in this centers in the ornamental effect of the bursting seed pods, within which fleshy, bright, orange-colored seed show to advantage. Those irises with so-called tufted roots are represented familiarly by the Siberian and Japanese classes. The Siberian has a number of distinct forms, of which the type forms a tall, leafy plant, four to five feet high, with many flowering stems, bearing from three to five flowers to a stem, and with dark blue coloring marked with white pencilings. The two most useful forms are the pure white variety, which grows about two feet high, bearing purest white flowers in small clusters, an admirable plant for any flower border, and the variety Orientalis, with broad, short foliage growing to a height of 18 inches and bearing with wonderful profusion flowers of the richest blue, with faint white throat markings. There is no better true blue in the iris family than this. It too is one of the few irises which will bloom a second time, though sparingly, it is true, by cutting down after the flowering period. This can hardly be recommended, however. No iris reproduces itself any faster than this. It quickly forms broad colonies that necessitates frequent division and transplanting.

Japanese irises are perhaps the choicest of the family; they are much misunderstood and require more judgment in their cultivation than do German irises. If planted in situations where water will not collect about the crowns in winter they are perfectly hardy. To flood them at the flowering period is an advantage, but not a necessity. This need is nearly as fully met by thorough mulching to retain all possible soil moisture during the flowering period, and with artificial watering is far safer than to plant in a moist situation. It is a false impression that the Japanese plant them where they are subject to excesses of moisture in winter. During this period the Japanese iris fields are drained. All Japanese irises are seemingly improved, and selected varieties, rather than hybrids. Their range of color is a very ample one, but has decided limitations. Aside from the variety of self colors and their combinations in flaking and veining, together with the single and semi-double forms, nothing can be expected. A dozen distinct sorts represent the class far better than a large collection of varieties whose distinction is more dependent on their labels than on any visual evidence of variety. Probably no class of plants has been more cruelly foisted on the public as new than these, by means of fanciful names in which Japanese terms have been used as indicative of new sorts.

It is highly improbable that any distinctive improvement of the class has resulted in comparison with the first sets of varieties shown in our halls 20 years ago. The following list is probably no better than others that could be named, but possesses distinction in the sorts quoted: Arthur Silbard, double, white, shaded with violet; Blue Jay, single, clear blue, spotted with white; Calypso, double, lilac, richly veined with purple; Dagmar Georgeson, rich royal purple, single; Goliath, double, white, marked with violet; Emperor of Japan, double, velvety maroon; Gold Bound, double, white, margined with gold; Painted

A BORDER OF JAPANESE IRISES.

IRIS KÆMPFERI AT DREER'S NURSERY, RIVERTON, N. J.

Lady, single, white, veined with claret. The wonderful size of the flowers of the Japanese iris, their late period of flowering carrying on the flower effect to early August, renders the class indispensible to every flower garden. Their massing in groups of a single variety, rather than in promiscuous clashing of colors, is essential for the most artistic effects.

THE VIOLET.

Notes in Season.

The season for single violets is now practically over, unless they are planted in cold frames. The doubles will continue to yield flowers of indifferent quality for another month. But we may consider the season at an end and the game all over. We can now reckon up profits for the year and decide how many new houses to build from the same. This is the time to divide the clumps of single varieties for next year's stock. Better put a good man at it. The work looks easy and it is; but it is also very easy to do it wrong. Select the plants carefully, throwing out any that show signs of disease or have a stunted appearance. Be sure not to use the old center crown. This is too hard and woody to ever make a satisfactory plant.

After division, the small plants should be carefully trimmed, removing nearly all the leaves and shortening the old roots with a sharp knife. Then a few weeks in a light cool bench, in soil, and they are ready for outside planting. There is only one right way to handle the single varieties during the summer months. Plant in the open ground early, in good soil, but without much animal manure. Give good clean culture, water only in case of excessive drought, and do not house until the plants have been subjected to one or two sharp frosts, to check growth and encourage the formation of flowering buds.

The growers in some of the western states have trouble in following this plan of outdoor culture, owing to excessive sun heat, but I believe that by planting in partial shade, careful attention to soil and mulching, the difficulty can be overcome, in a measure, at least, and that they will find outdoor summer culture preferable to planting early in shaded houses. If blessed with a black, greasy soil, try a liberal addition of coal ashes to it and note results. If the stock shows signs of losing its vitality it is well to procure fresh plants from a locality some distance away. Usually such a change of stock will result in increased vigor, for a few years at least. Buy of a reliable grower and pay a fair price. Low prices almost always mean cheap, poorly selected, poorly packed and generally undesirable plants.

The handling of the double varieties is entirely different. Varieties of the Marie Louise family, which includes Farquhar and Imperial, should be in the houses about as early as the beds can be made ready. But even with these we prefer that they be planted a few weeks in the open to harden, and fit them for a winters work. Lady Hume Campbell may usually be left outside until August. Cuttings of all double varieties should now be in the propagating bed if good plants are expected. The violet does not root readily after the days get warm. We find that the plants will root quicker and better in cocoanut fibre than in sand. If this material can be procured readily, try it. If late in getting in the cuttings it is especially desirable.

VIOLA.

Nitro-Bacterine.

In what was termed a "friendly scrap" between Prof. Bottomley and the R. H. S. expert, F. J. Chittenden, at a meeting of the English Horticultural Club it was fairly well brought out that inoculation with nitro-bacterine is no use on good, well cultivated soil and may even decrease the yield but it may be profitable on newly broken up soil which is deficient in bacteria. The whole affair, however, is as yet in the experimental state and nothing really decisive can as yet be stated.

UNIONTOWN, PA.—Thos. Patton died here March 23. Though he studied for a lawyer he never practiced, but instead turned his attention to landscape gardening. He was a disciple of Swedenborg and died at the age of 80 years.

ST. PAUL, MINN.—The Warrendale Floral Co. has been sold out at sheriff's sale. Local people advise that the concern is owing everybody and that creditors are not likely to realize one per cent on their claims.

THE ROSE.

PRESIDENT POEHLMANN of the American Rose Society says Mme. Abel Chatenay will surely return to popularity within a very few years.

Notes in Season.

It is a well known fact that there is general overhauling of greenhouse work after Easter, and here and there we often come across a block of plants that should have been repotted long before the holiday rush reached its zenith, or it may be a lot of cuttings starving for something more substantial to feed on than propagating sand. However, we are glad to admit that, of the rose growers of today, the wide awake variety is in the majority and well knows the close competition to which he is subjected by his neighbors in the same business and he also knows that the rose stock, whether it is one year on the benches or two days in the sand, won't stand for the slightest neglect, and it doesn't matter whether Easter comes early or late it should not in any case offer an excuse for the neglected appearance of any of the stock.

Perhaps we are past the days when overforcing was somewhat of a practice, still the temptation to have a few more flowers at Easter may have led the inexperienced growers to resort to this injurious practice and a word to those that may have done this may help to soften the blow suffered by the plants. The higher the temperature the houses has been run at the slower one must proceed to bring them back to normal, but by reducing the temperature a few degrees daily and by keeping a rush of air from striking the plants by the most careful ventilating and by reducing the amount of air for a few days, spraying over the tops instead of heavy syringing, it won't take long to bring the plants back to something near their normal condition. We often hear an inquiry about this time of the year something like this: My plants have a terrible dose of mildew and although I have used quantities of sulphur I can not check it and the flowers are off color with weak stems. This looks to us like too much kindness in the way of overforcing a crop and putting on lots of air, water, etc., afterward, and for just such a case I have been tempted to make these suggestions, but, if advice is worth taking at any time, I should strongly advise the rose grower to never force a rose beyond the limit for the sake of a few extra flowers or dollars that look dead easy, for it's a poor investment and amateurish in the full sense of the word.

But to come back to cultural notes proper, how are the Kaiserin, Carnot, and other summer forcing varieties looking? Do not let them get that soft look. They may take lots of water if they are making roots rapidly. At the same time they will require lots of air. Keep the soil around them cultivated once a week to encourage evaporation and no short stemmed growth should be allowed to bloom. Remove the buds from these and let only the stronger canes flower. Syringe them hard early in the day and examine the soil frequently to see that the plants do not get dry at the roots. The artificial heat should be cut off as early in the morning as possible and for real strong stock use the minimum amount of heat until the natural outside conditions will keep them going.

A few words about the compost for filling the houses: Where one has only a small range of glass, by far the most satisfactory method of preparing and time for attending to same is in the spring before the grass gets long. Select a good stiff clay soil that has a good set of grass on it and that has been known to have grown good crops of almost any thing except weeds. Have as much of this plowed as will be required and plow it while on the wet side so the sod will hang together. Clean off a piece of ground near the houses that are to be filled and have enough good cow manure in readiness on the spot to mix with the soil in the proportion of one load of good manure to three of soil. Employ enough extra help to rick up the soil in layers with the manure as fast as it is being hauled and have plenty of ground bone or bone meal on hand to mix with the soil. Start to rick up the soil by making a layer of sod, grass side down, then scatter a little ground bone over this about a shovelful to a layer 10 feet square. Scatter a little of the loose soil (if any is shaken out of the soil in handling) over this, then a layer of cow manure, another of soil, etc., all the way up until the rick is as high as desired. Slant the rick when approching the top so as to shed as much water as possible. Start another layer joining the first and so on until sufficient or a little more soil is prepared than will be required. Plenty of good soil is a good thing to have around. See that the ground slopes away from all sides of the compost heap in order to carry off the rainfall. After letting the soil stand for a week or two it should be chopped down and re-stacked and the oftener this mixing is gone through with, from now until the time it is carried into the houses, the better it will be for the young stock to be planted and grown on in it this season; all the care and judgment used in preparing the compost will show to good advantage later.

E.

New Rambler Rose Agnes Steinhoff.

On a recent visit to the range of Herman C. Steinhoff, West Hoboken, N. J., while being shown around by his foreman, A. F. Dwyer, we discovered a new rose. For this we claim no great credit as it appears that its merits have been recognized at this range for several years. It is quite appropriate that Mr. Steinhoff should have named this new production for his daughter, Miss Agnes, for has it not been said that beauty and good qualities go together? Herman Steinhoff, Jr., who has a taste for hybridizing originated this rose and for several

VASE OF JAPANESE IRISES (IRIS KÆMPFERI).

years it has been grown at the Norwood and West Hoboken ranges and carefully watched. Its development has been so satisfactory that a large stock will be ready for dissemination this year in early autumn.

Agnes Steinhoff is a single-flowered, pink rambler rose, the flowers being of a very beautiful shade and having the additional good quality of keeping bright and fresh looking on the plant for three weeks after opening. Another good point is that the flowers cluster on the top of the plant and do not scatter all over it. The foliage is of a fine deep green and not subject to mildew. We are free to say that in the hands of a less modest man than Herman Steinhoff we would have been hearing of this rose for the past two years, but it is never too late to recognize merit. It may be said in passing, that the Steinhoff range now shows a fine lot of Easter stock. There are pot roses in variety, azaleas and hydrangeas by the thousand, and about every other Easter offering, including fine lilies, that appeals to buyers.

Roses in California.

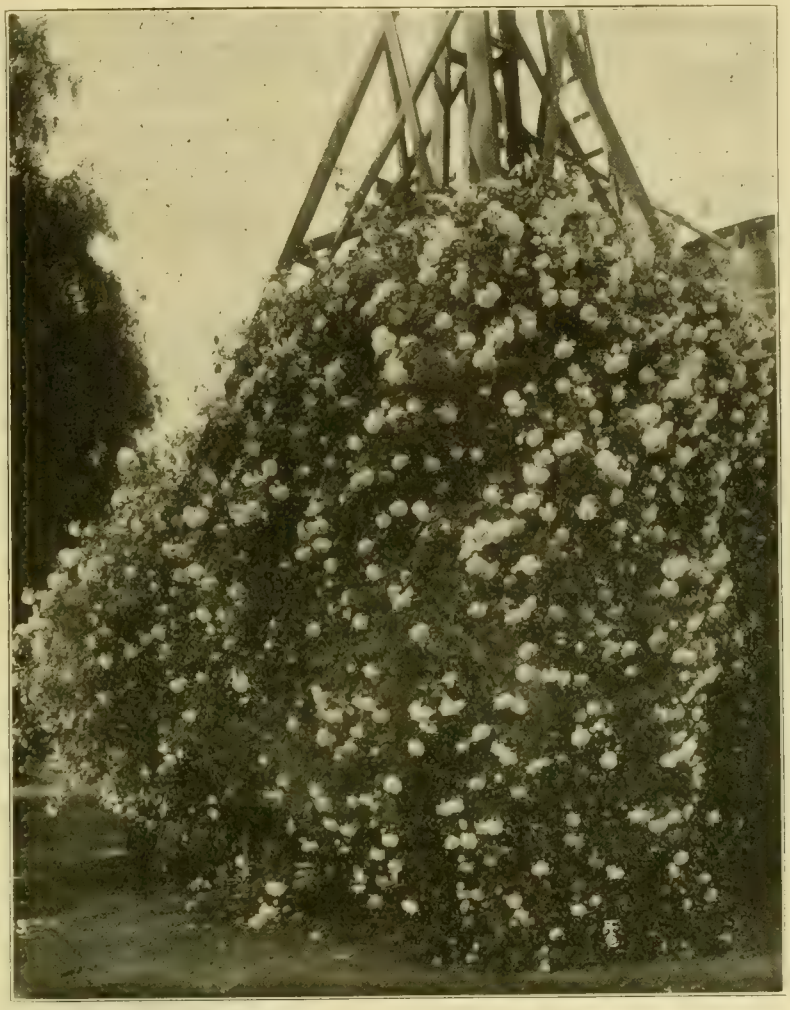
In California, where the rose runs rampant, it has become something of a fad within recent years, to cultivate what is known as rose "trees." More often than not, it is an unsightly shrub or tree which is chosen as a foundation, one which has perhaps served many years as an ornament, but which has now, through accident or decrepitude, outlived its beauty as well as its usefulness—for without beauty of outline and coloring, a tree of whatever description seldom succeeds in being useful. Everyone appreciates the length of time it requires for the majority of trees to reach a sturdy maturity, and no true lover of nature and her manifestations likes to cut down a full-grown tree. So the kindly aid of the hardy climbing rose is often happily called into service in order that the woodman may spare the tree.

In a certain attractive garden, there were two beautiful cherry trees which suddenly manifested a state of petrifaction. Whether it was the fault of the soil or the effect of a blight, no one was able to determine, but in spite of persistent spraying and diligent digging about the roots, both trees, with one accord, refused to put forth further foliage, though retaining their graceful bearing and symmetrical contour. Although the fruit of these trees was of an indifferent variety and therefore contributed little to their value, yet, situated as they were on the edge of a tennis-court and being the only shade trees in that part of the premises, their loss would have been a misfortune in the eyes of their owner. Directions, however, had already been given for their removal and new trees selected for their substitutes, while a discomforting lapse of many years was looked forward to, with no shade in that hitherto favorite spot. But the ever resourceful wit of woman came to the rescue in this case as in innumerable others from time immemorial, for the wife of the owner of the trees conceived the happy idea of utilizing their stark and naked limbs as forms upon which to festoon the long trailing branches of some climbing roses—thus covering a multitude of sins with a wealth of verdure.

In spite of the pessimistic protestations of her husband, whose unimaginative masculine mind failed to foresee good results from the undertaking, the little woman persisted in her purpose. Within a year's time there were yards upon yards of verdant draperies clinging to the once hopelessly bare branches of the cherry trees, and now, after two more years of sturdy growth upon the part of the climbers, the rose trees, clad in borrowed plumage, have become one of the sights of the neighborhood, showing forth a magnificent mass of leafage and blossoms. The white and pale yellow flowers of the Lady Banksia rose blend pleasingly on the one tree, and form a charming color contrast to its neighbor garlanded with Pink and Crimson Ramblers. It is not always deformed or decrepit shrubs, though, that are used as motifs for the rose trees. Evergreens, such as pine or fir, are especially well adapted to the purpose, the strength and steadiness of their foliage supporting the most delicate tendrils of the climber so that no effect is lost.

In an old-fashioned garden, not far removed from the writer's home, is one of the most beautiful samples of a rose tree that one could find anywhere. It is a large pine tree upon which has been trained a Beauty of Glazenwood rose. This rose tree has been for years a landmark in this locality and is gazed upon with pardonable pride by old residents of the vicinity, and with awe and admiration by touring sight-seers. The tree stands 35 feet in height and measures fully 120 feet in circumference. At all times of the year it is a thing of beauty, even during the winter months when the rose has cast its leaves, for then the tree stands entirely enmeshed in a lacey network of briary branches. But it is in the spring of the year that it is most wonderful. Completely enveloped in the tangle of festooning foliage and flowers, it is, in blossom time, truly spectacular in its appearance, with all semblance to its true type absorbed by the clinging climber—a veritable bouquet of monstrous proportions—the exquisitely changeable tints of the rose petals shimmering in the sunlight with iridescent glory.

Another successful rose tree experiment resulted in the utter transformation of an ugly evergreen arch,—one of those monstrosities of the gardener's art—by allowing a Cherokee rose to take complete possession. The arch stood at the side entrance of a deserted garden and had for decades been the harborer of dust and spiders—an eye-sore to all who passed that way. The property changing hands and a new and attractive home being built upon the lot, a general weeding out of all undesirable shrubbery soon followed. The arch seemed doomed as a matter of course, its stiffness and ugliness being entirely inconsistent with the good taste displayed by the builder of the new house. And so, in the opinion of the daily passers-by, it seemed the very irony of fate that many more attractive shrubs should have fallen be-



ROSES IN CALIFORNIA.

Roses Hiding an Unsightly Erection.

neath the axe, while this unattractive, gloomy, ever-dusty old arch was spared. But now, after an interval of several years, it transpires that there was method in this seeming madness, for where dust and cob-webs abounded, now gleams forth the waxen foliage of a single white Cherokee rose, which during the flowering months bursts into a miracle of starry camellia-like bloom. Crowned by this queen of the flowers, the once much despised archway has become in truth an arch of triumph. F. V. B.

Rose Society Premiums.

ED. AMERICAN FLORIST:—

One hardly envies the special committee on the regulation of premium offers, evidently hurriedly arranged for at the recent meeting of the American Rose Society at Buffalo, its task in framing a recommendation on the important question assigned to it. For though no one could find the least fault with the recommendation, as published in the AMERICAN FLORIST in the issue of March 20, yet, even the experienced members of this committee must have felt that their finding, to some extent, goes around the point at issue rather than settles it. When a lover of a certain class of roses takes sufficient interest to offer good premiums for exhibits of his or her favorites and there is no competition worth the name it is small satisfaction to know that the money is used for other purposes, worthy though these may be, and few will think to make it a clause that the money be returned or held for future shows.

Yet there seems no good reason why it should not be held for the same purpose another season. The Breitmeyer-Boddington prize was more or less a surprise to growers last season, but when these gentlemen allowed their offer to stand good for another season and growers had a whole year to prepare for it, well it certainly must have been a keen disappointment to them to find again no competitors, to name only one instance. The society and its officers are evidently anxious to break away from stereotyped exhibitions, to introduce variety and to forward the cause of rose growing along broader lines than heretofore. Here then is where the missionary work is needed and here is an opening for our growers of outdoor roses, of pot roses, and of other classes to come forward in the same spirit as our cut flower growers have done for years and to show us of their best. Unless they are shown, foreign visitors to our shores are apt to think, as one appears to have done on this occasion, that American growers of roses, other than growers of cut flowers under glass, are away behind. Come on then growers of Massachusetts, Connecticut and the Pacific coast and show these people what you have and what you grow. The season for outdoor roses is being materially lengthened by the introduction of hybrid tea, hybrid polyantha and other varieties, and if growers would show these to the public and explain to those interested how easily they may be grown considerable impetus would be given to rose growing generally, and Secretary Hammond's motto would come nearer fulfillment. Not only at national shows but even more at local exhibitions should nurserymen and rose growers come forward. It would increase their own business and help along the good work generally.

RAMBLER.

THE CARNATION.

Notes in Season.

The rapidly changing conditions from winter to spring makes this a very particular period in the life of the carnation plants that have been through a winter's season of flowering. The rapid growth of the plants, together with the quick drying out of the soil, make it necessary that the watering of the beds receive close attention. The airing of the houses is another important detail. The length of time the plants will continue to produce profitable results depends to a great extent upon the treatment that is given them during the coming three or four weeks. Disbudding must be followed up closely, any let up in this respect quickly ruining the crop. The plants will be greatly benefited by a dressing of pulverized sheep manure. Now this must not be given liberally enough to produce a forced growth, but to act as a slight stimulant. Propagating is being finished on most places now as from this time on it is a much more

Roses in California.
Cherokee Rose in a Pine Tree.

difficult problem to turn out a successful batch of cuttings. Fair results can be obtained by carefully watching the needs of the cuttings. They must be given a place where the draughts from the ventilators cannot reach them, also where they can be shaded properly and given a little bottom heat every day. The sand should be kept in about the same state as is usually the case throughout the propagating season, but as soon as the cuttings are rooted they should be potted up at once, not left.

The care of the young stock is important. Any plants that need it should be topped and this part of the work should be done with care. We allow our plants to stretch out long enough to make a clean cut just above the leaf axil. If any of the earliest propagated stock has the appearance of becoming hard in the pots, they should be shifted into a little larger size or planted out on a bench. Give the young stock plenty of fresh air on every favorable occasion. It does not need any pampering but delights in a cool fresh atmosphere. Young stock planted out in soil on benches or in boxes should have the surface soil loosened up every little while to keep it open. The plants are producing large quantities of blooms and the cutting and bunching entails considerable work. It should be kept followed up right along, the flowers not keeping very well if they are allowed to remain on the plants after they are ready to cut.

C. W. JOHNSON.

Carnation Culture.

A paper read by L. J. Reuter, Westerly, R. I., before the Morris County Gardeners' and Florists' Society, March 10.

Carnation culture has been discussed times without number, and my observations have led me to conclude that each grower must work out for himself the proper treatment which is required to correspond with the local conditions as they exist. Therefore, it is not my intention to go into any lengthy talk. It is possible to lay down certain fundamental principles for the beginner, but these serve only as starters and guides. The resultant success must depend upon his own powers to observe, and his ability to distinguish good effects from bad.

DIFFERING CONDITIONS.

Carnations may be seen growing under widely differing conditions, such as Enchantress, for instance, with a night temperature of 52° and a day temperature of 62° to 65°. Then, on the other hand, we have seen some excellent Enchantress growing with a night temperature of 48° and a day temperature of 70°. The latter seems to me to be a case of unusual treatment, but where is the room for criticism when the results are satisfactory? Again we come to the fact that one grower holds his carnations on what we would call decidedly the dry side, and possibly the next day we visit another where the beds are decidedly the reverse, and still both have equally good crops. We are constantly finding things to puzzle us in the way of culture, and for that reason it would seem that explicit directions for culture are worth nothing more than a hint and a guide.

THE BENCH QUESTION.

The subject of concrete benches is at this time receiving considerable attention. From an economical point of view these benches have an advantage over those made of wood, but the question that arises is this: Are raised benches superior to solid beds with good drainage? Here we come again to the same conclusion. Be guided by your own experience. If no better stock can be grown on the raised benches, then it is much cheaper to use solid beds. My own experience has led me to favor the solid beds. At the present time considerable experimenting is being done in the way of building concrete benches. Some are moulded entire, with bottoms, sides, stringers and supports practically in one piece. Others use movable slabs for the bottoms, and these are usually made at odd times during the winter, before the summer rush of work comes. One point which strikes me as important, is that the slabs be made as thin as possible

and still be able to carry the load. It is important that the concrete be as porous as possible. The slab about eight inches wide seems to be better than one 12 inches or more. By using the narrow pieces the drainage is made better, and they should be laid at least an inch apart. What I have stated about these benches has not been taken from personal experience, but from what I have seen at other establishments which I have visited, where raised benches are used. I believe that the concrete benches will prove to be good and any ingenious man should be able to work out a cheap and satisfactory way of constructing them.

KEEPING THE FLOWERS.

There is one question which has caused many of us some trouble this year, and I would say a few words about that now. My talks with numerous florists since last fall, not only growers, but storekeepers and commission men, have brought out the complaint that several of our best varieties are not keeping well. It is true that this season has given us bad weather to contend with, still we have some varieties which practically never give cause for complaint. Growing conditions, no doubt, cause this trouble to a great extent, but we are nevertheless sure that the trouble cannot be entirely avoided, even with great care to the ventilation, watering and feeding. What we must do, however, is to watch the new varieties carefully and steer clear of the poor keepers. Such varieties get the wholesale grower into trouble with the retailer, and the retailer with his customer, and the ultimate result is to hurt the sale of the carnation.

NEW VARIETIES.

The numerous reports in the trade papers have covered very thoroughly the many new varieties which are being shown this year, but a few words further may not be out of place at this time.

Bay State has shown up well wherever exhibited. It shows good keeping qualities, and is a large, bold and attractive flower with excellent stem. There seems to be no other variegated in sight to compete with it.

Apple Blossom is a very well formed flower with a general color effect resembling Prosperity, but not as deep in color as the latter and quite often coming all white. The stem is very good and it is surely a good traveler as well as an attractive novelty.

Pink Delight has been well thought of by nearly everyone who has seen it, and especially by those who have seen the plants growing at La Fayette. The blooms are not very large, but enough so for commercial purposes, and the form and stem is very good. It is a true salmon pink, and should take well with the public; as a producer it seems to give excellent results.

While at La Fayette we saw a large number of seedlings of all colors and types, but two scarlets and a crimson stand the strongest in my memory. They will undoubtedly be heard from later. I believe that one of the scarlets, Hoosier Lad, is to be introduced next year. It is a fancy bloom, good color and growth, robust and strong in every way.

W. N. Rudd showed a very promising crimson which is still under number. The form of bloom, stem and color are good, and it is claimed to be a fine producer and clean grower.

Ruby has been shown well at a number of exhibitions. It is a fancy bloom with excellent form and stem. The color is not too dark, and, as a keeper, outpoints the average crimson heretofore grown. The growth is ideal, free, upright and clean.

A vase of crimson shown in Boston by F. R. Pierson Co. was very attractive. This variety should be heard from later as it holds up well with the best in sight as to color, form and stem.

ROSES IN CALIFORNIA.

Beauty of Glazenwood on a Dead Tree.

If I were asked, what variety of those being introduced this year, pleased me most of all that I have seen, it would be hard for me to decide, but I must say a few words in particular for May Day. In this variety we find a shade which had been lacking among our commercial sorts. The color is a clear, lively satin pink, but that is not saying enough. We cannot find any standard variety to compare with it. When Enchantress of good color is placed beside it, May Day gets all the attention. It is in the Enchantress shade but a great improvement. The stem is strong and graceful, of good length and, judging from the plants seen growing at Richmond, we would call it a good producer.

The Chas. Knopf Floral Co. of Richmond, also have a seedling named Admiration to be introduced next year which should take well with the growers. The points of excellency in this variety, in a few words are large, handsomely formed blooms, strong stems and ideal calyx. The color is the most attractive point however; it being an even, soft pink, deeper than Enchantress, with no salmon and it does not fade out on the edges.

Sangamo and Superba are both excellent varieties having very long stems with sufficient strength to hold the flowers erect. They are both good keepers.

Dorothy Gordon resembles Rose Pink Enchantress very much, but is a decided improvement on that variety.

In whites, we have several showing up well. Shasta has attracted considerable attention by its nearly perfect form and pure glistening white.

Mrs. J. C. Vaughan, impresses me as a white from which we may look for something good. The flower is well built, loose and attractive, and it is of good size with an excellent stem. I have not seen it growing, but from reports of those who have, would say that it is free and clean. The cuttings at any rate, are starting out in good shape, showing a vigorous habit.

Although the blooms of Georgia are not very large, they are of good commercial size, and if it will produce freely, it should prove valuable. It is a good keeper and a pure white.

I neglected to mention, among the scarlets, O. P. Bassett, which was shown in excellent form in Indianapolis. In the scarlet classes it showed up well, and we hope to find in this a profitable variety. Some growers have been disappointed in Beacon this year and with Victory steadly losing friends, there is room for a good commercial scarlet.

For some years back the market has been bare of good yellows, but there are three now in sight. It remains to be seen what will become of them. We should get at least one of these. J. Whitcomb Riley is a very striking bloom, bold and rugged with Lawson characteristics. A point of value in this sort, is the absence of pink or red markings. The bloom is a clear color of the ideal shade of yellow, not too dark nor too light.

Kanarie Bird as staged in Boston showed up fine and Nathan D. Pierce of Norwood, R. I., has a yellow of fine stem, the bloom somewhat resembling the old Eldorado. Although the sale of yellows is not heavy there is always a chance to use a limited number to advantage, and a good one will be welcomed.

A visit to the new range of the E. G. Hill Co. is especially interesting this year. Novelties in roses and carnations are to be seen here, and there are several carnations on trial which should be heard from. I cannot mention any one in particular, as it would be necessary for one to watch several of them in growth and habit in order to decide which was best for commercial purposes. I remember, however, that a white and a scarlet looked especially good.

THE EXHIBITIONS.

Massachusetts Horticultural Society.

The annual spring flower show and Japanese garden of the Massachusetts Horticultural Society, which opened in Horticultural Hall March 24 was one of the most attractive and unique exhibitions of the kind ever seen in Boston. The hall was brilliant with flowers of all hues, but the principal feature was the Japanese garden constructed by J. Farquhar, who visited Japan several years ago and brought back many rare plants from the kingdom of the Mikado. The garden was laid out on an elevation, with gravelled walks, miniature lakes, pavilions and the like. In the background was the famous snow-covered Tugihana mountain rising against a field of blue sky. This spot was certainly romantic enough to be attractive, apart from the fine display of rambler roses shown here by M. H. Walsh of Woods Hole.

THE AWARDS.

Azalea Indica, eight plants, in at least four varieties.—Edward MacMulkin, first; E. W. Breed, second. Three plants, distinct varieties (for private growers only).—Wm. Whitman, first and second. Palms, pair, in pots.—Edward MacMulkin, first; Mrs. Frederick Ayer, second; William Whitman, third. Ericas, six plants, in not less than three species.—Mrs. Frederick Ayer, first and second. Rambler roses, three plants, distinct varieties (for private growers only).—Miss S. B. Fay, first. Group of roses (open to commercial growers only).—M. H. Walsh, first and second. Display of forced hardy herbaceous and alpine plants.—Bellevue Greenhouses, first. Twelve cyclamens.—Dr. C. G. Weld, first; J. S. Bailey, second; Dr. C. G. Weld, third. Six cyclamens.—E. J. Mitten, first; Mrs. Frederick Ayer, second and third. Cinerarias, grandiflora type, six varieties.—W. A. Riggs, first; Dr. C. G. Weld, second; J. S. Bailey, third. Schizanthus, six plants, in pots.—Mrs. J. L. Gardner, first; J. S. Bailey, second. Cinerarias, stellata type.—Wm. Whitman, first and second; Mrs. J. L. Gardner, third. Hyacinths, six pans.—W. A. Riggs, first; Wm. Whitman, second. Single pan.—Mrs. J. L. Gardner, first, second and third. Early Tulips, six 8-inch pans.—Wm. Whitman, first; W. A. Riggs, second; Mrs. J. M. Sears, third. Late tulips, six 10-inch pans.—W. A. Riggs, first; Mrs. J. L. Gardner, second. Narcissi, collection of large trumpet varieties, not less than 10 8-inch pots.—Wm. Whitman, first; W. A. Riggs, second; Mrs. J. L. Gardner, third. Collection of short trumpet varieties.—Wm. Whitman, first; Mrs. J. L. Gardner, second. Amaryllis, 12 pots.—Mrs. J. M. Sears, first and second. Group of Easter flowering plants.—Thomas Roland, first; Edward MacMulkin, second. Display of bulbous plants.—Wm. Whitman first. Forced bulbs, six pans, grown without the aid of a frame or greenhouses.—Miss Margaret A. Rand, first; Henry L. Rand, second; Miss Margaret A. Rand, third. Orchids, group of plants arranged for effect, to cover not less than 50 square feet.—E. B. Dane, first; Seth A. Borden, second; E. J. Mitten, third. Specimen plant.—Mrs. A. W. Blake, first; Seth A. Borden, second.

ROSES.

Twenty-five blooms of American Beauty.—Waban Rose Conservatories, first; F. R. Pierson & Co., second. 25 Bride.—Montrose Greenhouses, first. 25 Bridesmaid.—Montrose Greenhouses first. 25 Richmond.—Montrose Greenhouses, first; W. H. Elliott, second. 25 Killarney.—W. H. Elliott, first. 25 blooms of any new named variety not in commerce.—F. R. Pierson & Co., first.

CARNATIONS.

Vase of 100 cut blooms of one variety, with foliage.—M. A. Patten, first. 25 blooms of any named crimson variety.—M. A. Patten, first; Wilfrid Wheeler, second; Edward Winkler, third. 25 blooms of any named dark pink variety.—C. S. Strout, first. 25 blooms of any named Winsor-shade variety.—C. S. Strout, first; M. A. Patten, second; Backer & Co., third. 25 blooms any named Enchantress-shade pink variety.—R. D. Kimball, first; M. A. Patten, second and third. 25 blooms of any named scarlet variety.—John Barr, first; M. A. Patten, second; B. P. Winch, third. 25 blooms any named white variety.—M. A. Patten, first; C S. Strout, second. 25 blooms of any named white variegated variety.—M. A. Patten, first; R. D. Kimball, second. 25 blooms of any named yellow variegated variety.—M. A. Patten, first. Violets, bunch of 100 blooms of any single variety.—Estey Bros., first; Wm. Sim, second; H. M. Howard, third. Bunch of 100 blooms of any double variety.—L. S. Small, first; H. M. Sanderson, second; Norris F. Comley, third. Sweet peas, two vases, distinct varieties, 100 blooms in each.—Wm. Sim, first; Norris F. Comley, second; Wm. Sim, third. Antirrhinums, vase of 25 spikes.—R. D. Kimball, first. For the best mantel decoration of plants and flowers—Edward MacMulkin, first; Mrs. E. M. Gill, second; Sidney Hoffman, third.

Gold Medal.—R. & J. Farquhar & Co., for Japanese garden. Silver medals.—Mrs. A. W. Blake (J. L. Smith, gardener), for Nephrolepis Piersoni; Mrs. J. M. Sears, amaryllis; Arthur Griffin, Gloriosa Rothschildiana; Harvard Botanic Garden, artistic display. First Class Certificates of Merit.—W. W. Rawson & Co., for Narcissus King Alfred; W. A. Riggs, Rose Tausendschon; Larz Anderson, Lælia elegans; E. O. Orpet, Brassocattleya Susannæ (Cattleya Thayeriana X Brassavola Digbyana); Julius Roehrs Co., Odontoglossum crispum var. E. B. Dane; Julius Roehrs Co., Cattleya Schroederae var. Surprise; E. B. Dane, Cypripedium Mandai; M. H. Walsh, rambler rose, Maid Marion. Cultural Certificates.—Thomas Roland, for Cytisus racemosus; Wm. McGillivray, Dracaena Godseffiana. Honorable Mention.—Robert Ballantine, dwarf blue cinerarias; New Hampshire Agricultural College, seedling carnations. Vote of thanks.—E. O. Orpet, collection of cut orchids.

St. Louis Horticultural Society.

THIRD ANNUAL SPRING SHOW.

The third spring exhibition given by the St. Louis Horticultural Society opened on Wednesday, March 24. The weather, being very stormy, hurt the attendance, but in the evening a good crowd arrived considering conditions. The display of cut flowers was not as large as last year but the display of flowering and decorative plants surpassed that of last year. The park exhibit, in charge of Wm. Murname of Forest park, was a splendid display of foliage and decorative plants and great credit is due this gentleman for the beautiful arangement, which showed his great knowledge of how to place and group plants to the best advantage. The displays were well worthy of mention, especially the beautiful exhibits of F. C. Weber, Theodore Miller, Young & Sons and Wm. Schray & Son. Vaughan's Seed Store, Chicago, exhibited fine box trees, Aucuba Japonica and cycas, making a very fine display.

Schray's display of daisies was much admired, also his lily of the valley and Wistaria Sinensis. F. H. Weber's basket of jonquils, display of violets and lily of the valley were the center of attraction. Geo. Windler had a fine display of mignonette. J. F. Ammann showed Alice Roosevelt and Mrs. Potter Palmer roses which were much admired. The displays of carnations by W. J. & M. S. Vesey, Chicago Carnation Co. and John Steidle, were very fine. New carnation, Sangamo, shown by A. C. Brown, of Springfield, Ill. and Chicago Carnation Co.'s new royal purple, Gov. Deneen, also shown by A. C. Brown, were much admired. The center table furnished by F. H. Weber with center piece of lilac, boutonnieres and sprays of sweet peas was good. Geo. A. Kuhl exhibited ferns and spireas. The Koenig Floral Co. had several large handsome displays. Judges were Robert Jesson, Andrew Meyer and A. T. Hey of Vaughan's Greenhouses, Western Springs, Ill. The awards follow:

Collection of bulbous plants in bloom.—Wm. Schray & Sons, first; Koenig Floral Co., second.

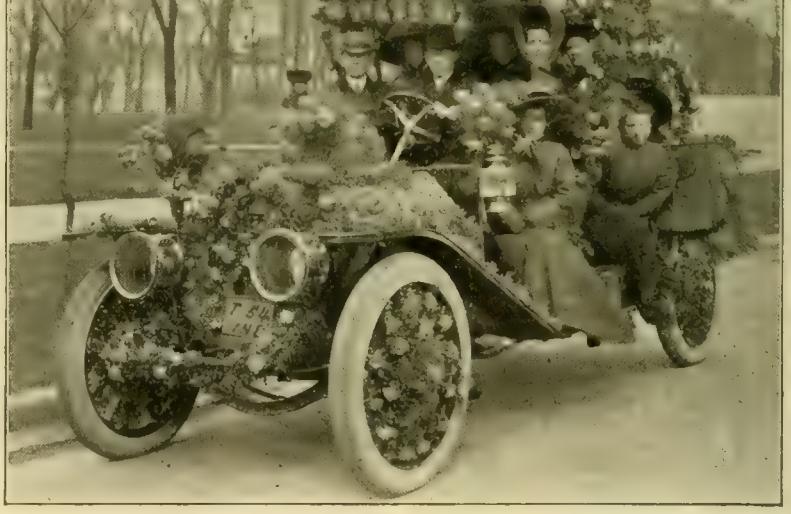
Fifty foliage and flowering plants.—Wm. Schray & Sons, first; C. Young & Sons, second.

Ten geraniums in bloom.—Koenig Floral Co., first; C. Young & Sons, second.

Twelve mignonette.—Geo. B. Windler, first.

Exhibit by amateur.—Mrs. Ottmar Moll, first.

Specimen plant in bloom.—Wm. Schray & Sons, first; C. Young & Sons, second.



A. WIEGAND & SONS' (INDIANAPOLIS) DECORATED AUTOMOBILE.

About 1,500 Carnations and 125 Asparagus and Smilax Were Used.

Display of lily of the valley.—Wm. Schray & Sons, first.
Display of pansies.—Wm. Schray & Sons, first; John Steidle, second.
Five vases of carnation blooms.—John Steidle, first; Chicago Carnation Co., second.
Vase of 50 white carnations.—Chicago Carnation Co., first; W. J. & M. S. Vesey, second.
Vase of 50 light pink.—W. J. & M. S. Vesey, first; Chicago Carnation Co., second.
Vase of 50 dark pink.—Chicago Carnation Co., first; W. J. & M. S. Vesey, second.
Vase of 50 red carnations.—Chicago Carnation Co., first.
Vase of 50 any other color.—W. J. & M. S. Vesey, first.
Vase of 25 pink roses.—John Steidle, first; J. F. Ammann, second.
Vase of 25 white roses.—W. J. & M. S. Vesey, first; J. F. Ammann, second.
Vase of 25 red roses.—W. J. & M. S. Vesey, first.
Display of lily of the valley.—F. H. Weber, first.
Display of violets.—F. H. Weber, first.
Basket of spring flowers.—F. H. Weber, first; Koenig Floral Co., second.
Table decoration of spring flowers.—F. H. Weber, first.
Display of hardy shrubs in bloom.—Wm. Schray & Sons, first; Koenig Floral Co., second.

W. F.

Twenty Years Ago.

APRIL, 1889.

Mosquito netting was recommended for placing over the holes in the bottoms of flower pots to keep out worms.

A specimen of Vanda Sanderiana eight feet high and with 18 growths was reported as "coming."

Bantam fowls were allowed the run of John Thorpe's houses at Pearl River, N. Y. "They do no harm but a great deal of good in picking up grubs and other vermin," Mr. Thorpe said

The Evans ventilating apparatus was very popular in the east.

American exhibitions were being highly praised in the English horticultural papers.

Robt. Halliday, father of R. J. Halliday, Baltimore, died at his home, and his funeral, on April 17, was largely attended by people from far and near to pay their last tributes to this much respected florist

Dailledouze Bros., Flatbush, N. Y., were growing many fine varieties of lantana and were advising their culture by other florists

Much discussion was going on as to the nomenclature of the fuchsias. White House, E. G. Hill and others.

The dubious methods of certain advertisers of "wonderful" plants called forth much caustic comment both here and on the other side of the Atlantic.

Wm. Falconer was advising florists to turn their attention to the amaryllis.

Dishes such as are now used for ferns were filled with cacti and obtained some popularity.

Wholesale Price of Easter Plants at New York, March 31, 1909.

		Each.
MISCELLANEOUS STOCK.		
Acacia Longifolia		$1.50, 3.00, 5.00
" "	specimens	15.00, 25.00
" Paradoxa		1.50, 2.50, 3.00, 5.00
Azalea Dwarf Encke		.35 to 1.50
" Indica	in variety	.50 to 20.00
Bougainvillea	bush	.75 to 5.00
"	standards	3.00, 5.00
"	pyramids	6.00, 8.00, 12.00, 15.00
Boronia	bush	.35, .75, 1.00, 1.50, 3.00
Cineraria		.25 to 1.00
Candytuft	pots and pans	.15 to .75
Daisy, Marguerite	pots	.25 to 5.00
" "	pans	.35, .50, .75, 1.00 1.50
Deutzia Gracilis		.35, .50, .75
Erica Cavendishiana		2.00, 3.00, 5.00
" Cuperissina		.25, .40, .75, 1.00
" Persoluta alba		.40, .75, 1.00
" Magnifica		2.50, 3.50, 5.00
Geraniums		.08 to .10
Genista	bush	.25 to 5.00
"	tree and standard	5.00 to 15.00
Gardenia	pots	.75 to 3.50
Hawthorn (Cratægus oxycantha)	pink and white	1.50, 2.00, 3.00
Hydrangea	bush	.50, .75, 1.00, 1.50, 2.00, 3.00 to 10.00
"	standard	1.50, 2.00, 3.00
Japanese Plants (in Jap. Jars)		.20 to 10.00
" Gardens		1.50 to 25.00
Lilies, Longiflorum types	per bud or flower	.10 to .12
" Calla	per pot	.50, 1.00, 1.50
Metrosideros (Bottle Brush)		1.00 to 5.00
Paeonia Moutan	pots	1.50
Pansies	pots or pans	.08 to .35
Primula obconica	pans and pots	.12 to .50
Rhododendrons		1.00, 1.50, 2.00, 3.00, 5.00 to 15.00
Spirea	in variety	.35, .40, .50
"	new pink	.75
Viburnum, Snowball		1.50, 2.00
Wistaria Chinensis	white and purple	2.50, 3.00, 5.00 to 25.00
ROSES.		
Crimson Rambler	bush	.75 to 5.00
" "	pyramid	6.00 to 15.00
" "	basket and other forms	6.00 to 15.00
Dorothy Perkins	bush, pyramid and basket	1.00 to 15.00
Lady Gay	" " "	1.00 to 15.00
Wedding Bells	" " "	1.50 to 15.00
H. P. Types		
Ulrich Brunner		.35, .75, 1.50, 2.50, 3.00
Frau Karl Druschki		" " " " "
Magna Charta		" " " " "
Paeonia	pots and pans	" " " " "
BULBOUS STOCK.		
Daffodils	pots and pans	.25 to 1.50
Hyacinths	pots and pans	.10 to 1.50
Lily of the valley	pots	.35 to .75
" " " "	pans	.50 to 2.00
" " " "	baskets	2.00, 3.00, 3.50
Tulips	pots and pans	.35 to 1.00
STOCK SUITABLE FOR HAMPER WORK.		
Cyperus alternifolius	variegated	.50
Diffenbachia		.35, .50
Dracæna Godseffiana		.15 to .50
" Sanderiana		.10, .15
Ficus repens		.12, .15
Hibiscus Cooperi		.15, .35, .50
Isolepis		.10
Maranta Kerchoveana		.35
" Leitzii		.20 to .35
Panicum variegatum		.08 to .20
Peperomia argyræa		.20
Reineckia	green and variegated	.15 to .25
Selaginella		.12
Tradescantia discolor		.12

At present the growers seem to be practically sold out. Lilies are very short and unsatisfactory.

OBITUARY.

J. S. Pearce.

J. S. Pearce, London, Ont., died at his home on the evening of March 25. Deceased had been ill for about a week but, the day before he died he went out for a walk and, becoming faint, had to be assisted home. Mr. Pearce was born in Tyrconnel, Elgin county, 67 years ago. Thirty-six years ago he came to London and entered into the commission business. From this he branched out to become head of one of the largest and most extensive seed businesses in Canada, shipping seeds from coast to coast. About eight years ago he sold out the seed business to Darch & Hunter and retired. Shortly after this he was engaged by the city as parks superintendent, which position he held until his death, carrying out many important improvements there.

During all his life Mr. Pearce displayed a love for flowers and trees, his happiest moments being spent when working in their midst. He was the oldest son of John Pearce, one of the pioneer settlers in Dunwich township, living in what was known as the Talbot settlement. His charity was widely known. It was said of him that no one ever applied for charity and was refused. His kindly words and cheerful smile will be long remembered by his many friends. He leaves a widow and two brothers.

Edward Gill.

Edward Gill, aged 69, one of the foremost horticulturists of the Pacific coast died March 25 at his home in West Berkeley, Calif. Mr. Gill was a native of New Jersey and was a well known figure at eastern shows. He was a specialist in rose growing and an expert cultivator of all classes of stock and had considerable repute as a skilled botanist.

Indianapolis.

PROSPECTS GOOD.

Last week's business gave no reason for complaint; it was good in all branches. Easter prospects are fine and growers are already booking orders for cut flowers. Most rose growers are in doubt as to a full Easter crop. It will take the most favorable kind of weather to make it.

NOTES.

A burglar visited Edward Bertermann's house last week. Mrs. Bertermann gave the alarm and the burglar retired with sufficient speed to close the front door between himself and the pursuing householder. The latter, very lightly clad, reached the front gate just in time to see Mr. burglar turn the next corner. The night prowling gentleman only received $3 for his trouble, but he might have fared better had not Mrs. Bertermann interfered.

Bertermann Bros. are planning a large and well equipped cold storage building for bulbs and hardy stock. They also have placed an order for several carloads of pecky cypress, taking advantage of the prevailing low prices.

H. W. Rieman is going to discontinue rose growing; space is limited with him and he needs his rose houses for his ever-growing plant trade. Mrs. Ernest Rieman and children are planning a trip to Europe this summer.

John Evans of the Challenge ventilator reports business very active; one day recently he booked orders for 75 machines and several hundred pipe brackets.

A. Wiegand & Sons new Overland automobile was handsomely decorated and much admired in the recent automobile show. The Wiegands find their motorcycle very convenient for delivery. J.

THE AMERICAN FLORIST

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When sending us change of address always send the old address at the same time

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POEHLMANN'S LILIES.—The lilies shown on our cover design, reproduced from a photograph, were grown by the Poehlmann Bros. Co., Chicago.

THE paper on carnation culture by L. J. Reuter, Westerly, R. I., which appears elsewhere in this issue, contains a candid opinion by this noted cultivator on many of the more recent novelties and varieties, besides much up-to-date cultural matter.

LUTHER BURBANK has, it is said, abandoned the project to have his plant business incorporated.

AN English trade paper says the market for kentia seeds is very unsettled and a rise in prices expected.

THE demand for cycas leaves and fern balls has fallen off about 50 per cent during the past two years.

H. B. MAY & Co., Lower Edmonton, London, Eng., have acquired the old established business of J. Birkenhead & Co., Sale, Manchester.

WHATEVER may be argued against sterilized soil its great advantage in preventing damping when used for seed-growing is unquestionable.

LILIUM HARRISII is reported to have succeeded well in the south, the plants evidently enjoying good steady growth without too severe forcing.

CANNAS are in active demand and some sorts pretty short. The very dry autumn weather not only reduced the size of the clumps, but has possibly injured the keeping qualities.

ONE of our subscribers suggests that dealers in shipping stock should eliminate all noxious insects, such as white fly, mealy bug and scale. Growers who expect to ship twice to the same buyer would do well to remember this suggestion.

THIS seems to be an era of horticultural legislation, some little of which is good and much of it annoying and detrimental to the best aims and interests of horticulture in its broad sense of ameliorating and improving our everyday homes and their surroundings.

THE Consular and Trade Reports frequently warn merchants using the foreign mails for their catalogues against insufficient postage on their mail. After calling attention recently to some rather glaring instances the consul at Puerto Plato adds: "This may seem to be a small matter, but when an American firm is trying to interest local merchants in a new line, and the local man must pay six cents postage before he reads the proposition in which he may or may not be interested, he is certainly more or less prejudiced against the matter in advance."

Duty on Crepe Paper.

The protest of A. Herrmann, against the assessment of duty at the rate of five cents per pound for crepe paper such as is used for wrapping flower pots, and claiming a duty of 25 per cent ad valorem, was overruled by the board of appraisers at New York, February 26, and the duty remains as heretofore.

Personal.

Otto Will, of Minneapolis, Minn., who is making a trip around the world with his bride, writes from Kioto, Japan, stating that they would sail shortly for China and India. The happy couple should have a splendid time in these celestial regions.

J. D. Eisele, manager of Dreer's mammoth greenhouse establishment at Riverton, N. J., wears out a pair of the best shoes he can get in Philadelphia every four weeks in his daily rounds.

The best friends of Prof. L. R. Taft of the Michigan Agricultural College, Lansing, Mich., would scarcely recognize him without his moustache.

John Evans again denies responsibility for Richmond's recent wet vote.

American Carnation Society.

CARNATION REGISTERED.

By Dana R. Herron, Olean, N. Y.—Olean, parentage, Winsor and unknown seedling of Winsor growth; color, pink; size of flower 3½ inches; habit, long stiff stems, with perfect calyx, flowers very full and fragrant.

ALBERT M. HERR, Sec'y.

National Council of Horticulture.

The second installment of the press service of the National Council of Horticulture contains articles on "Sweet Peas and Other Good Annuals," "How to Select Shrubs," and "What to Plant in April." The articles are timely and practical and are entirely free to nurserymen, seedsmen, local editors and others applying for them to James H. Burdett, 1720 West One Hundred and Fourth place, Chicago.

The New Tariff Bill, H. R. 1438.

The new tariff bill as now before congress provides in the two sections which affect florists and nurserymen, landscape gardeners and others using plants and flowers that are imported, and stands as follows:

Section 259.—Orchids, palms, dracænas, crotons and azaleas, tulips, hyacinths, narcissi, jonquils, lilies, lily of the valley and all other bulbs, bulbous roots, or corms, which are cultivated for their flowers or foliage, and natural flowers of all kinds, preserved or fresh, suitable for decorative purposes, 25 per cent ad valorem.

Section 260.—Stocks, cuttings or seedlings of Myrobolan plum, Mahaleb or Mazzard cherry, three years old or less, $1 per 1,000 plants; stocks, cuttings or seedlings of pear, apple, quince and the Saint Julien plum, three years old or less, and evergreen seedlings, $1 per 1,000 plants and 15 per cent ad valorem; rose plants, budded, grafted or grown on their own roots, 2½ cents each; stocks, cuttings and seedlings of all fruit and ornamental trees, deciduous and evergreen, shrubs and vines, manetti, multiflora, and brier roses, and all trees, shrubs, plants and vines, commonly known as nursery or greenhouse stock, not specially provided for in sections one or two of this act, 25 per cent ad valorem. BENJAMIN HAMMOND.

Sec'y S. A. F. Tariff Committee.

Important Foreign Exhibitions.

April 2-13.—Internationale Gartenbauausstellung, Zoological Garden, Berlin, Germany.—Siegfried Braun, secretary, Berlin N. 4, Invalidenstrasse 42.

May 19-21.—National Horticultural Society of France, annual exhibition le Jardin des Tulleries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine, France

May 25-27.—Temple show, Royal Hortucultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland Square, Edinburgh, Scot.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—By practical gardener and florist; private or commercial; life experience; good reference. Address J. HODGE, 210 N. Tod Ave. Warren, O.

Situation Wanted—By a first-class grower of cut flowers and pot plants; age 35; single; life experience. Address Key 840, care American Florist.

Situation Wanted—By first-class grower of roses, carnations and general stock; 20 years experience; married; best references. Key 823, care American Florist.

Situation Wanted—By competent all-around florist as manager of retail establishment; must be permanent; married; references; state salary. Address Key 837, care American Florist.

Situation Wanted—By all around gardener; private place preferred; 14 years' experience in greenhouse and nursery stock; can furnish first-class references. Key 825, care American Florist.

Situation Wanted—By landscape architect capable of drawing his own plans, thorough in his branch, wishes to connect with a reliable firm; references. Address Key 838, care American Florist.

Situation Wanted—As gardener or foreman; life experience in every branch of horticulture; age 29 years; capable under glass and outside; both private and commercial 1st class certificates. Key 833, care American Florist.

Situation Wanted—A young man wishes employment in greenhouse; have had six years' experience in carnations roses and general line of stock; please state wages with or without board. Address P. O. Box 217 Morris, Ill.

Situation Wanted—By young unmarried all-around greenhouse man; can grow roses, carnations, orchids, grapes, pot plants, etc.; institution or private place preferred; excellent references; please state particulars. Key 835, care American Florist.

Situation Wanted—By young married man as grower of carnations, 'mums, vegetables and bedding plants; either commercial or private and near Philadelphia; 10 years' experience; best of references; at liberty June 1. Address Key 828 care American Florist.

Situation Wanted—As working foreman; German, single 31 years of age; good grower of roses carnations, 'mums and general stock; also good designer and decorator; 17 years' experience; sober and honest, good worker, best of references. Address F. WILL, Florist, 64 Palmer Ave., Chicago.

Situation Wanted—As gardener and florist on private or State School preferred; life experience in fruit, flowers and vegetable garden, lawns, flower beds and cut flowers, palms, ferns roses, carnations; good worker and sober; best of references. Address FRANK, FLORIST, 1253 N. California Ave., Chicago.

Situation Wanted—To take charge of a retail place in the state of Colorado or nearby states; 25 years' practical experience in the growing of cut flowers, potted plants and out of doors gardening; capable of handling help; sober, honest and reliable man 40 years of age. Address Key 826, care American Florist.

Situation Wanted—As foreman or first-class grower, by German florist; can grow roses carnations, 'mums lily of the valley and general stock; sober; married; 32 years old; nine years' experience in Germany, six years in the U. S.; best reference. Address NICK TERTSCHEK, 2091 William St., Columbus, Ohio.

Help Wanted—Working foreman at once; good propagator and grower of carnations and mums. N. C. MOORE & CO., 60 Wabash Av. Chicago, Ill.

Help Wanted—A fireman; must be strictly sober; will pay $12.00 per week; steady job the year around. Address Key 829, care American Florist.

Help Wanted—First-class greenhouse man for bedding plants under head gardener; married man preferred. Address SUPT. OF PARKS, P. O. Box 1027, Hartford, Conn.

Help Wanted—Rose grower to work under foreman; wages according to ability; state terms and where employed WEST VIEW FLORAL CO., Atlanta, Ga.

Help Wanted—A thoroughly competent reliable and experienced man, to fill position in retail store in Los Angeles. Apply to WRIGHT'S FLOWER SHOP, 224 W 4th St., Los Angeles Calif.

Help Wanted—A competent and reliable single man for general greenhouse work; none but first-class man need apply; send references and state wages in first letter. G. L. HUSCROFT, Steubenville, Ohio.

Help Wanted—A young gardener who has experience in cemetery flower houses, also able to do grave planting; must have good references. Address or call, WALDHEIM CEMETERY CO., Oak Park, Ill.

Help Wanted—Good reliable man in nursery department at our retail store; must have some knowledge of landscape gardening, good salesman and hustler. A good positon for the right party. State wages. Address THE LIVINGSTON SEED CO., Columbus O.

Wanted—To correspond with party having a good business opportunity to invest in florist business, either store, greenhouses or both; a place where ability and capital can build up large business. Address Key 834 care American Florist.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

WANTED.

First class up-to-date designer and decorator for my retail store. H. R. HUGHES, 690 W. Van Buren St., Chicago, Ill.

FOR SALE.

Wholesale and Retail Floral Establishment, well stocked; consisting of 12 large greenhouses, the majority erected within the last two years, 2½ acres of land, 12-room brick residence, shop, barn, wagon, implements, tools, etc. Everything in **first-class** condition. Owner has been in business 25 years and wishes to retire. For terms, address,

C. CRAMER, R. F. D. No. 4,
Salt Lake City, Murray Station, **Utah.**

WANTED.

Some good secondhand pipe 1-inch, 1¼-inch 1½-inch and 2-inch black iron pipe; no junk or steel. Also a ventilating outfit for three houses 200 feet long.

JOHN BLECHSCHMID,
Miles Ave., CLEVELAND, O.

WANTED.

Working foreman; experienced grower of roses, carnations and 'mums; married man of ability and energy; salary $16.00 per week and increase for results shown. Answer with references please.

MAX RUDOLPH,
11 W. 12th Street, CINCINNATI, OHIO.

Manager Wanted.

$1200 salary and cottage to hustling greenhouse manager thoroughly posted in all branches for a large retail florist business; 100,000 feet of glass, middle Atlantic states; an energetic man would be given an opportunity to buy an interest.

Write with all particulars.

CONOVER CO.,
care American Florist, Chicago.

WANTED.

Some one who will take up a desirable lot, low in price for the purpose of erecting greenhouses on it. The place owned by me is on the outskirts of Cranford, N. J., very favorably situated for a greenhouse business where a good home market can be had and where it is accessible to New York. I am willing to build the greenhouses for the man and then either rent or sell to him on easy terms Key 821 care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Nursery Foreman.

We want a competent nursery foreman; good opening for right man; address at once with full particulars.

Key 827, care American Florist.

Wanted—Store Fixtures.

Will buy out retail store to furnish my new place. Address, at once,

J. A. MENDEL,
422 W. 18th Street., Chicago.

Greenhouse Manager.

The advertiser is open to engagement as manager or foreman on a general commercial greenhouse establishment, preferably on the Pacific Coast; have had ample experience with roses, carnations, chrysanthemums, etc.; age 33 years; single; state salary and full particulars as to requirements. Address

Key 836, care American Florist.

Greenhouse Manager.

A man highly competent in all departments o commercial floriculture is now open to engagement; can furnish best of reference; to secure attention prospective employers should give particulars without reserve. Address

Key 839, care American Florist.

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y.

Trade Directory

FLORISTS, NURSERYMEN, SEEDSMEN

THE NEW 1909 EDITION

READY NEXT WEEK. PRICE, $3.00 POSTPAID.

AMERICAN FLORIST CO., 324 Dearborn St., CHICAGO.

EASTER LILIES

We have the finest lot of Lilies we ever had just coming into crop for Easter. Place your order with us **now** and we shall pack and ship **direct from our greenhouses** in boxes of 50 and 100—no bruised stock. **$12.50 to $15.00 per 100 for select; $8.00 to $10.00 per 100 for short. Cut and Pot Stock.**

LARGE LOTS OF FINEST

Killarneys, Maids, Brides and Richmonds

CARNATIONS, too, are fine. **Tulips, Daffodils, Jonquils, Violets, Valley, Greens.**

Remember, the reason our trade is growing is because **our customers' interests are our first concern.** We have the stock, and our prices and service are both right.

IF IT'S IN CHICAGO, WE CAN FURNISH IT.

ZECH & MANN, WHOLESALE FLORISTS L.D.Phone, Central 3284 51 Wabash Avenue **Chicago**

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,

EVERGREEN, ALA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax. Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

EASTER LILIES $12.50 PER 100.

Brides and Bridesmaids, American Beauties, Richmonds and Killarneys, first quality, Calla Lilies, Carnations, All Varieties, Valley, Smilax, Sprengeri and Plumosus.

BOSTON, MASS.

Henry M. Robinson & Co.,

WHOLESALE COMMISSION FLORISTS,

Hardy Cut Evergreens and Florists' Supplies.

We have the stock; can fill all orders. No order too large or too small. Write, Telegraph or Telephone. Orders filled promptly, properly and to your satisfaction.

Tel. 2617-2618 Main. 25290 Fort Hill

15 Province St. and 9 Chapman Place.

Southern Wild Smilax, Hardy and Fancy Ferns, Bronze and Green Galax, Laurel Wreaths, Laurel Festooning, Green and Sphagnum Moss.

ORDERS Placed with us means that you can depend on us.

We Never Disappoint. Satisfaction Guaranteed.

Fancy and Dagger FERNS $2.00 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... .....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway, All Phone Connections. DETROIT, MICH.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Washington.

LILIES WILL BE SHORT.

Entertaining seems to have become less frequent and less formal during the closing days of Lent. The uppermost thought of the local retailer at present is to secure the necessary Easter stock and novelties, in consequence, many of them have been, or are going to visit the larger cities in order to obtain their needs. It seems to be the general opinion that this Easter will be a busy one, and there is no doubt there will be a great demand for good stock, both in the cut flower and plant lines. The local growers are all showing a good supply of Easter stock; also a goodly number of lilies, but not nearly enough to supply the demand. There is no doubt regarding the cut stock for, judging from the present outlook, there will be enough to go round, excepting some varieties of bulbous stock.

NOTES.

Z. D. Blackistone introduced a new idea in the way of window decorations; the arrangement was in accordance with an up-to-date millinery window. A number of hats were placed on hat stands and decorated with natural flowers. One of particular interest was the Merry Widow hat, a neat card, on which was written "Watch this window for spring styles," explaining the idea.

At a special meeting of the directors of the Florists' Club it was decided to hold the next meeting and annual banquet April 20, instead of April 6, to avoid conflicting with Easter business.

J. H. Small & Sons report a busy week; they decorated for Postmaster General von Meyer's dinner; the main feature of the decorations was a center piece of jonquils and white lilac.

J. R. Freeman is ready for Easter having an excellent stock of growing plants. He reports fair business.

Visitor: Jos. J. Goudy of Henry A. Dreer's, Philadelphia, Pa.

G. S.

ROSES, None Better in the West.
Fancy Bridesmaid, Bride, Richmond, Killarney.
CHOICE CARNATIONS
Our strong point. We lead them all. Large supplies.
EASTER LILIES
Of good quality.
VIOLETS, VALLEY
And all Bulbous stock in large supply.
GREENS
Of all Kinds.

J. A. BUDLONG
WHOLESALE GROWER AND SHIPPER OF CUT FLOWERS,
37-39 Randolph St. ....CHICAGO.

Lowest Market Prices.

Special attention given to shipping orders. We can fill your orders when others fail. But for your protection we advise early placing of **Easter Orders.** You'll find our service prompt.
Remember we make no charge for "P. and D." on orders over $4.

Store open from 7:30 a. m. to 6:00 p. m. Sundays and holidays to 12:00 m.

Wire Work, Florists' Supplies. CUT FLOWERS FERNS, LEUCOTHOE, GALAX.
W. C. Smith Floral Co.,
1316 Pine Street, Both Phones. ST. LOUIS, MO.

C. Young & Sons
LARGEST GROWERS OF CUT FLOWERS AND PLANTS
Both Phones. 1406 Olive Street, ST. LOUIS, MO.

C. A. KUEHN, Wholesale Florist,
Florists' Supplies, Wire Designs.
WRITE FOR CATALOGUE
1122 Pine Street, ST. LOUIS, MO.

ANGERMUELLER, GEO. H.,
FLORIST WHOLESALE, Pine Street, No. 1324, MO., ST. LOUIS.
Don't get mixed up—send me your Easter orders. Cut flowers and florists' supplies. Lowest prices.

Riessen Floral Co.,
Both Phones. 21 South Broadway, ST. LOUIS, MO.

Poehlmann's Lilies...

Cut and in Pots. Fine and Well Hardened Stock.

We have a crop of 40,000 to 45,000 and will ship and pack direct from our greenhouses where we have the most modern facilities for handling cut flowers.

CUT LILIES.

Short, per 100	$8.00
Medium, each	10 to 12½c
Long stems	15c

LILIES IN POTS.

Three to seven flowers per plant.

14-inches high	8 c per bloom.
18 to 20-inch	12½c per bloom.
2-ft. and over	15c per bloom.

Poehlmann Bros Co.,

Greenhouses, Morton Grove, Ill.
Store, 33-35 Randolph Street.
CHICAGO.

St. Louis.

STOCK OVER PLENTIFUL.

With Easter but two weeks off it is impossible at this time to have any idea as to market conditions. At the wholesale houses, the middle of the week saw everything plentiful, and business at a standstill. Carnations dropped considerably in value and were sold for any price but by Saturday they stiffened again. Roses have become more plentiful. Narcissus Von Zion was sold at $2 per 100. Fancy ferns are now $2.50 per 1,000. Trade has been dull but probably a reaction will set in before Easter and things will liven up.

NOTES.

The spring flower show closed on Friday evening with a good attendance. Preparations for the fall flower show have already started. It is expected that one of the finest shows ever given will be held in the Coliseum. Secretary Otto G. Koenig has already laid the foundation. The Henry Shaw bequest of $500 annually for prizes and the banquet having been waived will result in more money for show purposes. Business men will be invited to give cash prizes. It will be the plan of the Horticultural Society to have several modern gardens and parks in the Coliseum, so that the public will see how to beautify front and back yards. The show will be a society event and will last one week. Prizes will, at this time, be awarded for the best kept gardens within the city limits during the summer of 1909. After the show all the cut flowers were distributed to the hospitals.

Wm. Smith Wholesale Floral Co. is headquarters for sweet peas. The counters are filled every morning with very choice stock which is very much sought after and easily disposed of.

F. H. Weber has a fine assortment of flowering plants and cut flowers. A. Cineros, who has been visiting his family in Kansas City, is again in charge, with F. H. Weber as head designer.

Young & Sons have a fine lot of azaleas, lilies, lilacs, tulips and jonquils for their Easter trade. Their plant and seed trade is increasing and all hands are now busy with their spring orders.

Riessen Floral Co. has a fine stock of flowers always on hand. The firm's sales on American Beauty roses, violets and lily of the valley are immense.

Geo. Angermueller is getting in some fine stock in roses and carnations. He has quite a number of outside shippers and his trade is increasing daily.

Arthur Faerber is now bringing some of the finest white and pink sweet peas seen in this market. He expects next to build a house for violets.

C. A. Kuehn has certainly a splendid supply in choice roses and carnations, also a good supply of American Beauty roses and lily of the valley.

EASTER OFFERINGS

H. E. Froment

Wholesale Commission Florist

57 West 28th Street

NEW YORK

Telephone: **2200-2201** Madison Square

Receiving Full Line of

Choice Cut Flowers

Am. Beauty, Maid, Bride, Richmond and Killarney Roses, Violets, Orchids, Carnations, Lilies, Lily of the Valley, Etc.

Hello! Here We Are Again

with an extra fine supply of

EASTER LILIES

$12.50 and $15.00 per 100.

Now is the best time to order Pot Lilies, while in bud.

CALLAS

Prices subject to market change. Cash with order.

MIAMI FLORAL CO.

24 N. Main St., DAYTON, O.

In our notes of last week, H. G. Berning's name was mentioned instead of C. A. Kuehn's as receiving carnations from Henry Baer of Peoria, Ill. W. F.

FORT WAYNE, IND.—The Lantineers have purchased the Sherer greenhouses and E. F. Lantineer will be in charge of the newly acquired plant.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Who esale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

Holton & Hunkel Co.,
WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

RICE BROTHERS
Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

Weiland & Olinger,
128 E. Third St., CINCINNATI, OHIO.
Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100 00 per 1000
Greenhouses, NEW CASTLE, IND.

Lake Forest, Ill.

The preliminary list of premiums to be awarded at the third annual exhibition of the Horticultural Society to be held the third week in July has been received from the secretary, J. W. Sharfenberg. There is plenty of variety in the schedule, this showing 49 classes for vegetables, 13 for fruits, 69 for cut flowers and 42 for plants, besides many medals, cups and certificates, and extra prizes are offered for novelties that may prove attractive to the public. A suitable list of rules is published with the schedule.

THE
J. M. McCullough's Sons Co.
Wholesale Commission Florists.
CONSIGNMENTS SOLICITED.
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Wholesale Flower Markets

ST. LOUIS, Mar. 31.

Roses, Beauty, long stems	4 00@ 5 00
" " medium stems	2 00@ 3 00
" " short stems	50@ 1 00
" Bride, Bridesmaid	5 00@10 00
" Chatenay	5 00@10 00
" Ivory	5 00@10 00
" Killarney	4 00@10 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	6 00@10 00
" Richmond	6 00@10 00
" Alice Roosevelt	5 00@ 8 00
Carnations, fancy	2 50@ 3 00
common	1 50@ 2 00
Lily of the Valley	3 00
Violets	35@ 40
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 50	
Smilax	12 50@15 00

CINCINNATI, Mar. 31.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Tulips	4 00@ 5 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, Mar. 31.

Roses, Beauty, special	5 00
" " fancy	3 50
" " shorter	1 00@ 3 00
" Bride, Bridesmaid	3 00@12 00
" Killarney	4 00@12 00
" Richmond	4 00@12 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	12 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 4 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00

MILWAUKEE, Mar. 31.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@10 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	1 50@ 4 00
Daffodills	2 00@ 3 00
Lilium Giganteum	15 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Violets	50@ 75
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	25 35
" Sprengeri	25
Ferns, Common, per 1000	2 50
Galax, per 1000	1 50
Smilax, per doz.	1 75

EASTER
Price List.

AMERICAN BEAUTIES

	Per doz.
Long Stems	$5.00
30-inch stems	4.00
24-inch stems	3.00
20-inch stems	2.50
15-inch stems	2.00
Short stems	1.00

Richmond

	Per 100
Select	$ 8.00 to $10.00
Medium	5.00 to 6.00

Killarney

Select	10.00 to 12.00
Medium	5.00 to 8.00

Mrs. Marshall Field

Select	10.00 to 12.00
Medium	5.00 to 8.00

Bridesmaid, Bride

Select	8.00 to 10.00
Medium	5.00 to 6.00

Chatenay, Ivory

Select	8.00 to 10.00
Medium	5.00 to 6.00

Perle, Sunrise

Select	8.00
Medium	5.00 to 6 00

Roses, our selection 4 00

CARNATIONS

	Per 100
Are all good	$5.00

Easter Lilies

Short	$10.00 to 12.00
Select	15.00
Tulips,	4.00 to 5.00
Violets,	1.00 to 1.25
Valley,	3.00 to 4.00
Daffodils,	3.00 to 4 00
Callas,	12.00 to 15.00
Paper White,	3.00 to 4.00

Asparagus Plumosus
Extra quality per bunch, 75c
Fancy Ferns
Per 1000 $2.50

Give your customers roses that keep well and you will keep your customers.
Reinberg's roses outlast any others.

PETER REINBERG
35 Randolph St., CHICAGO.

Longiflorum Giganteum Easter Lilies

$8.00 to $15.00 per 100

KILLARNEY

A fine crop in all length stems. The heads are exceptionally long and large—with color. We want your Killarney orders for Easter.

Maids, Brides, Richmonds and Am. Beauties.
Fine lot at right prices.

Carnations by the 100 or 1000.

Bulb Stock of all kinds.

WHITE LILAC

This crop of Lilac, now ready, is of the larger variety, and very fine stock.

VIOLETS

Eastern and home-grown—single and double. Our wide experience in handling Violets—our choice selection of the best growers of fancy stock—the fact that we can always fill your orders with stock that is fresh—are reasons why everybody wants Randall's Violets.

A. L. RANDALL CO.

Wholesale Florists, L. D. Phone Central 1496. Private Exchange all departments. **19-21 Randolph St., CHICAGO**

Chicago.

MARCH BUSINESS GOOD.

Business for the month just closed has been considerably ahead of that of a year ago. Trade was more active for the first three weeks than it was the last week perhaps, but on the whole there is little desire for complaint. The present week opened strong, there being the usual strong Monday demand, but the tone of the market was decidedly weak on Tuesday and Wednesday. American Beauty roses have been fairly plentiful and prices consequently low and easy. Tea roses have been over abundant, the existing demand during the entire week past not being able to clear off the stock of Bride and Bridesmaid. Carnations have been inclined to stay on the scarce side of the market, but the demand not being overly strong the past week with the exception of Monday. At time of going to press white carnations were hard to get and good stock easily brought $4 per 100. Sweet peas have been of good quality and the demand has been satisfactory. Violets have continued weak. Good singles are gradually disappearing. Bulbous stock has moved off satisfactorily the past week as it has most of the season so far. Easter lilies have been coming in sufficient quantities to meet the demand. Iris, both yellow and blue, is seen and is fine stock.

EXAMINATION FOR CITY FORESTER.

The civil service examination for municipal forester will be held next Monday morning at 117 Market street. The list, with the present vocations of the applicants, three of whom live outside of Chicago, follows: Ashby D. Chapman, telephone inspector; Jean E. Franke, florist and gardener; Frederick C. Fisher, ornamental horticulturist; Alexander H. Fisk, landscape gardener, west parks; Jacob H. Prost, assistant landscape gardener, west parks; Jens P. Peterson, gardener; George W. Hendrie, East Lansing, Mich., forester; William G. McLean, Madison, Wis., park foreman; Charles Jensen, Topeka, Kans., Kansas department of forestry. The position carries a salary of $2,000 per year.

FLORISTS' CLUB GIVES CINCH PARTY.

Announcements are out for a "Ladies' Night" for the Florists' Club to be given Friday evening of this week. The affair will be a cinch party at the Grand Pacific hotel. The game will be called at 8:15 o'clock and refreshments will be served.

The regular monthly meeting of the Florists' Club occurs Thursday evening, April 1, at the Union restaurant, 111 Randolph street. The proposal of 10 new names is to be acted upon.

NOTES.

Harry A. Barnard, who has been visiting the principal American and Canadian cities in the interests of the famous English firm of Hugh Low & Co., Bush Hill Park, London, was in the city March 25-26. In his short stay he visited Hinsdale, Westen Springs and other nearby

The Pennock-Meehan Cup.

Won by A. Lange, at National Flower Show.

places and called on many in the trade. Mr. Barnard expressed himself as mightily pleased with the reception given him on this his first visit to this country. He left the city March 26 enroute to Pittsburg, Washington and New York. He stays a week at each of the latter cities and sails for home on the Mauretania, April 14.

The Poehlmann Bros. Co. has from 40,000 to 45,000 Easter lilies in flower for Easter and all well hardened off and intend to supply them for both the cut flower and the potted plant trade. Building is rapidly progressing at Plant B, some of the new houses being already glazed. This week ground was broken for a new range of 10 houses at Plant A.

Zech & Mann claim they have as fine lilies as can be grown, both quality and quantity being considerably superior to what was to be had last Easter. They will supply the trade with Easter lilies, both cut and in pots.

Geo. Reinberg has begun the rebuilding of six houses, each 26x265 feet. All his stock is in fine shape for the Easter season. His store manager, Robt. Northam, has been seriously ill since March 26.

C. W. Straley, formerly with the Fleischman Floral Co., and more recently with the Bohannon Floral Co., is now manager of the floral booth in the La Salle street station.

Wietor Bros. report having a full crop of roses to cut from for the Easter trade. At the greenhouse there is already a fine lot of chrysanthemum cuttings in both sand and soil.

In the A. L. Randall Co.'s supply department visitors are being shown a fine display of gilded wicker ware for table work and favors.

The J. C. Moninger Co. is furnishing material for a range of three houses for the Indian school at Ship Rock, N. M.

O. P. Bassett celebrates another birthday on April 2, this being his seventy-fourth.

Fred Lautenslager, of the Kroeschell Bros. Co., has been ill the past week at Geneva, Ill.

The Kennicott Bros. Co. is showing some extra fine iris, both yellow and blue.

Mrs. J. B. Deamud has been very sick for nearly three weeks.

Sol Garland, of Desplaines, has had an attack of pneumonia.

Visitors: Jean Aldous, Iowa City, Ia.; J. F. Johnson, Fort Smith, Ark.; C. A. Schnell and J. Jurgenson, both of C. A. Donaldson, Minneapolis, Minn.; Geo. F. Crabb, of Crabb & Hunter, Grand Rapids, Mich.; Harry Fisher, Kalamazoo, Mich.; J. J. Soper and wife and M. C. Sadewater, Rockford; Lester F. Benson, Indianapolis, Minn.; Harry Barnard of Hugh Low & Co., London, Eng.

Davenport, Ia.

Business is moving along quietly with a rather short supply of flowers. Carnations have been rather scarce for the past two weeks. The sweet pea crop has also shortened up and violets are about done. Bulb stock is scarce. Tulips have not been nearly as good as in other seasons, many growers complaining of their coming blind. Easter is now the

general topic and everything points to a big trade.

FLORISTS' CLUB BANQUET.

The third annual banquet of the Tri-City Florists' Club was held on the evening of March 25, at the Outing club, and proved the most enjoyable and most successful event ever held by the club. Every member of the club contributed the best he had to the decorations and in consequence there was the very best of material on hand with which to do the work which was splendidly carried out. Theo. G. Ewoldt was toastmaster and, with the assistance of Harry Bills, John Temple, Ex-president Wm. Knees, Pres. O. E. Boehm, E. Bryant and others kept the guests in the best of humor. Toasts and speeches in the lighter vein, were responded to by the above gentlemen, which added much to the entertainment of the guests. A ball followed the banquet in the beautiful ball room of the club house, which also had received the attention of the decorators, green and white being the color scheme. A select orchestra furnished a fine programme of music.

NOTES.

Charles Hummel of the Sunny Side Greenhouse, has returned from a trip through Louisiana, having visited New Orleans and several other cities in that state. He reports roses and other plants in full bloom and was much pleased with his trip. Mr. Hummel brought an alligator home with him, which is a great attraction at his greenhouses. The report is that it is 18 feet long, and this is bringing him many visitors.

John Staack of Moline is without doubt the happiest florist in the three cities. Should he hand you a fine Havana, take it and ask no questions. It's a girl. T. E.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave., CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in

Cut Flowers

All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL. 32-37 Randolph St. CHICAGO.

Wholesale Flower Markets

CHICAGO, Mar. 31.

Roses, Beauty, extra select		5 00
" " 36 in		4 00
" " 30 in		3 00
" " 20 to 24 in	2 00@	2 50
" " 15 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select	10 00@	12 00
" " " medium	6 00@	8 00
" Chatenay, select		10 00
" " medium	6 00@	8 00
" Golden Gate, Uncle John	4 00@	8 00
" Kate Moulton	4 00@	8 00
" Killarney, select	10 00@	12 00
" " medium	5 00@	8 00
" Mrs. Marshall Field, select	12 00@	15 00
" " " medium	6 00@	10 00
" Perle	5 00@	8 00
" Richmond, extra select	10 00@	12 00
" " medium	5 00@	8 00
Carnations	1 00@	4 00
Callas, per doz.	2 00@	2 50
Cattleyas, ($9.00 per doz.)	60 00@	75 00
Daisies	50@	2 00
Gardenias, per doz	6 00	
Irises	6 00@	8 00
Lilium Harrisii, per doz.	2 00	15 00
Lily of the Valley	3 00@	4 00
Pansies	1 50@	2 00
Sweet Peas	75@	1 50
Tulips		3 00
Violets, single	50@	1 00
" double	50@	1 00
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	4 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		2 00
Galax, green, per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50-lb. case		5 00

Chas. W. McKellar

51 Wabash Ave. CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO

Telephone, Central 3284.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO

WRITE FOR SPECIAL PRICES.

WEILAND & RISCH

Wholesale Growers and Shippers of

CUT FLOWERS

59 Wabash Ave., CHICAGO.

Phone Central 879.

Write for our wholesale price list.

WHOLESALE FLORISTS

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO

Telephone 2336 Madison Square.

Kessler Brothers, Wholesale Plantsmen and Florists.....

50 West 28th St., NEW YORK CITY.

The only Wholesale Plant Store in the city. Our variety of **EASTER PLANTS** Uusurpassed
Our facilities for prompt and satisfactory delivery of orders unequalled.

New York.

WEATHER HINDERS TRADE.

Easter is now the goal of all branches of the trade. The past week was dull in cut flowers. To make matters worse, with Thursday, March 25, came a hurricane and deluge of rain that made life miserable for all unfortunates caught out in it. On Thursday and Friday business was practically at a standstill. By Saturday, something of necessity had to move and there was a semblance of life in the market, but much stock sold cheap. All the evidence goes to show that there will be plenty of good cut flowers for Easter. What is worrying some of the

John L. O Toole, New York.
As He Appeared in the St. Patrick's Day Parade.

dealers is the question of the possibility of a monoply in plants. It does not appear that the lily trade at Easter is likely to hurt anybody very much, possibly excepting the growers who last fall put good money into bulbs and are now reaping disappointment. There will be a fair number of passable lilies in for Easter but the crop as a whole is far below expectations. It does not follow that there will be a scarcity of plants; the great quantities of fine pot roses, azaleas, hydrangeas, rhododendrons and other plants that will be offered will very nearly compensate for the lilies. Last year, we noted a tendency among buyers, which was very natural, to pass poor lilies for "something else as good." We predict that this year it will be more emphatically repeated.

March 29.—The cut flower market is very quiet with a downward rather than upward tendency in prices. While not offering predictions, the tendency seems to be toward a preference for plants for Easter. Retailers are actively engaged in preparations for a heavy plant trade.

NOTES OF THE GROWERS.

Anton Schultheis of College Point, has a very fine stock of Easter plants that will come in just at the right time. He has Lady Gay, Crimson Rambler and many other roses, all in fine condition. Though it is a poor season for lilies he has brought forward quite a lot that show up very well. A particularly noteworthy feature of his range is the great number of fine hydrangeas.

While geraniums may not, strictly speaking, be Easter plants, they are good to see at any season. John Tschupp & Co. of West Hoboken have them by the thousand and many of their finely flowered plants are being sold by Ford Bros. of Twenty-eighth street.

At the range of Pankok & Schumacher, Whitestone, there is a good Easter stock and the members of the firm say that they are already practically sold out.

J. McMullen, Whitestone, who sells his stock in the New York Cut Flower Exchange, has begun the erection of two new houses.

NOTES.

All does not seem to be harmony in the Retail Florists' Protective Association. We have received the following communication from a leading retailer: "One of our alleged leading florists, whose establishment is on one of the leading avenues of the city, advertises on a placard in his window that carnations can be had for 50 cents per dozen. If we did not know the nationality of the gentleman in question we would suppose that he belonged to the class of itinerant flower peddlers who traveled several thousand miles in order to stimulate our flower industry. The special sale ad. of the florist in question who holds office in the Retail Florists' Association sets an example to the rest of his confreres which we hope will not be readily followed. The flower business has already been cut into sufficiently, from many sources, without having the supposedly legitimate, high class man adopt such queer methods. It might be well to suggest a pension for the florist in mind, if he cannot longer survive in a business way by the manner and method he followed for so many years. The writer speaks in all charity and kindness to the object of this essay and hopes that he may still, in the near future, 'see the light' and mend his business ways."

Kessler Bros., plantsmen of 50 W. Twenty-eighth street, are showing a very fine stock of Easter plants and report good business.

Plants will be the feature at the Florists' Club April 12.

An Easter Greeting

FROM

FORD BROTHERS

48 West 28th Street, NEW YORK

WE HANDLE THE

Best Products of the Best Growers

American Beauty, Richmond, Killarney, Bride and Bridesmaid Roses, Fancy Carnations, Lily of the Valley, Violets, and other seasonable stock.

We Compete with Anybody in Quality of Stock

Telephones: 3870-3871 Madison Square.

N. Y. Cut Flower Exchange

Cogran Bldg., 6th Ave. & W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising.

V. S. DORVAL. Secretary.

J. K. ALLEN,

Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

Traendly & Schenck,

WHOLESALE FLORISTS,

44 West 28th Street, New York City.
Phones, 798 and 799.

HENSHAW & FENRICH

WHOLESALE FLORISTS

44 West 28th St., Phones: 325 and 5583 Madison Square. NEW YORK

Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS

J. J. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square.
39 West 28th Street, NEW YORK

Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

A. L. YOUNG & CO

WHOLESALE FLORISTS,

54 West 28th Street, NEW YORK

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

—FLOWERS SHIPPED BY—

JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

19 W. 28th St., NEW YORK.

Telephone 1998 Madison Square.

Millang Brothers,

Wholesale Florists,

41 W. 28th St. NEW YORK.

N. C. SCHREINER

Wholesale Commission Florist

ROSES A SPECIALTY

41 West 28th Street, Telephone 6259 Madison Sq.. NEW YORK CITY

John Young

WHOLESALE FLORIST,

51 West 28th St., NEW YORK CITY

Long Distance Telephone, 4463-4 Madison Sq.

KESSLER BROS.

50 W. 28th St., NEW YORK.

CUT FLOWERS

Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited

ALFRED H. LANGJAHR

WHOLESALE FLORIST,

55 W. 28th Street, NEW YORK.

All flowers in season. Consignments of first-class stock solicited.

Telephones, 4626 and 4627 Madison Sq.

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, Mar. 31.

	Per 100
Roses, Beauty, special	15 00@25 00
" " fancy	10 00@12 00
" " extra	8 00@12 00
" " No 1	4 00@ 6 00
" " No. 2	2 00@ 3 00
" " No. 3	1 00
" Bride, Bridesmaid, special	5 00@ 8 00
extra and fancy	3 00@ 5 00
No. 1	1 00@ 3 00
No. 2	1 00
" Killarney special	6 00@ 8 00
extra and fancy	4 00@ 6 00
" Richmond	1 00@15 00
Carnations fancy and special	3 00@ 4 00
" common	1 50@ 2 00
Callas, per doz.	75@ 1 00
Cattleyas	40 00@60 00
Daisies	50@ 2 00
Gardenias, per doz.	1 00@ 5 00
Lilac, Cut, per bunch	50@ 1 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	1 50@ 2 00
Mignonette, per doz.	30@ 60
Narcissus (Paper White)	2 00@ 2 50
" (Yellow)	1 50@ 3 50
" (Southern)	20@ 30
Sweet Peas, per doz bunches	30@ 1 00
Tulips	1 50@ 3 00
Violets	20@ 40
Asparagus, doz. bunches	2 00@ 3 00
Smilax	8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

FORD BROS.,

Receivers and Shippers of

Fresh Flowers

48 West 28th St., NEW YORK.

Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florist

55 and 57 West 26th Street,

Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK

Consignments Solicited.

Telephone 7062 Madison Square.

Philadelphia.

EASTER PROSPECTS GOOD.

There was a fair amount of business doing for the season the past week. The supply and demand appear to be more equally balanced this Lenten season than for a long time, as there has been no semblance of a glut and the near approach of the great demand, practically removes all likelihood of trouble in this respect. American Beauty roses are at last becoming visible and prices have receded considerably, the specials being now offered at $5. Killarney, Richmond and Mrs. Jardine are seen of extra quality and move very well at fair prices. Carnations are more plentiful and cheaper, $3 buying very good stock. Some very choice lupines and snapdragon are seen in the windows and appear to be in demand from particular buyers who are glad of a change. New crop sweet peas are daily offerings, very choice blooms of almost Boston quality; $1 is about high. Violets are certainly on the slide the singles showing very surely that their days are numbered. The doubles will hold out for Easter which is one of their great occasions. All eyes are now turned towards next week and great preparations are being made by the dealers in order to handle the business with the least friction and most profit. He is indeed a good buyer and judge of the market, who, on the Monday following, writes across his inventory "practically nothing left." Almost all the cream of the stock has been selected at this writing. Growers are unanimous that, so far, the business has been excellent and the prospects are that a general clean-up will result. Lilies, it is said, will be short. Commission men are going about buying stocks which are required in addition to their regular consignments most of which are reported lighter than usual. After the sad experience of last year, many growers cut their bulb orders in half and their crops have been about cut in half by the unsatisfactory bulbs, some growers reporting even a greater proportion than this. Spireas are also said to be rather behind the demand.

NOTES.

A raid on the street men doing business on Market street curb was a feature last week. The goods and utensils, that is, the flowers and jars that could be gathered in before the word was passed that the "cops" were coming, were taken along with the merchants to City hall, where, after a lecture, they were discharged as there appears to be no law under which they can be fined or punished. They are declared simply guilty of breach of a city ordinance, which prohibits them selling on the curbs.

In addition to the stocks reported in the last issue, we have seen a number of well grown plants. Jacob Becker has a fine stock of azaleas and hybrid roses also hydrangeas. Azaleas and roses are nowhere seen in better shape than here, there being a good finish to everything that Mr. Becker does.

The Floracroft Nurseries of Walter Stokes are rich in hydrangeas, a very fine stock indeed. Lilies are seen here but nearly all sold. There will be the usual tens of thousands of lily of the valley, all cut. This stock is a factor in the market.

August Muller understands lilies and has a splendid lot of Giganteums losing, he says, but a very small percentage. Hydrangeas are done very well here. Azaleas several houses, and a fine lot of bulbous stock about completes the Easter stock.

Geo. Anderson has a choice lot of lilies and spireas but no hydrangeas. The stores will feel the loss of these as last season they were the talk of the town.

Griffin Bros. of Frankford have an exceptional lot of azaleas and several houses of well grown lilies. Bulbous stock is also a specialty with them.

Zimmer of Collingdale has a fine lot of bulbous stock. Hyacinths, daffodils and tulips are always seen here in quantity for the Easter trade.

The commission men say they are booking large orders from out of town buyers. Many of the houses are doing quite a business in plants.

J. W. Colflesh is strong on cinerarias, having a large house of well bloomed stock. His daisies and bulbous stock are also fine.

K.

Boston.

TRADE BETTER.

Business has braced considerably and shows a creditable volume with accompanying profits drawn from a well filled and even market. A feeling of encouragement is widespread and Easter is awaited with eager expectancy by all interests. Stock in general, both cut flowers and plants growing, has rarely, if ever, been seen in better condition. American Beauty roses are plentiful and in very fair condition; they still bring $50 per 100. The demand is encouraging and sufficiently large to keep down surpluses. Killarney is in rare form and undoubtedly will be the principal factor of the Easter rose market. The best grade easily brings $4 per dozen. Chatenay, Bride and Bridesmaid are shown in quantities but are overlooked by the buyers. Carnations present the only possible sign of shortage and the market is unable to meet the demand which is unusually large for this time of year. Prices are iron-bound and few bring less than $4 per 100. Violets will be abundant as shown by the present day receipts. Single violets have been somewhat shaky but have recovered in the last few days. Good double varieties are at a premium. Gardenias are available in quantities while cattleyas are practically outside. Lilies are going to be plentiful and, so far as can be judged, from present appearances, will be superior as a whole to the usual Easter crop. Many of the stores have contracted for specially grown stock and the best results are expected, proving more satisfactory to the parties at both ends.

NOTES.

The sights to be seen at Thos. Roland's establishment at Nahant pays many times over the value of the time involved. Here may be seen an enviable collection of the leading commercial plants every one of which is primed for the Easter holiday. Easter lilies by the thousand form an important feature, but for beauty give way to the elegant specimens of acacia, of which, in this one establishment 30 different varieties are shown, genistas, bougainvilleas, azaleas and cyclamens. Months ago contracts were made for the distribution of the entire stock and everything is in readiness for the final call. The display from this establishment at the spring exhibition of the Massachusetts Horticultural Society was the finest ever staged and easily won the first award.

— Caplan, a retailer at 144 Massachusetts avenue, was in the local court Friday under the charge of violating the Sunday law. Presenting the argument that his door was locked while he was working up funeral designs inside had no effect and he was fined $15. A watch, closer than ever, is being maintained, especially in this section of the city, and storekeepers are undecided whether or not it is profitable to risk their chances.

Carl Runge, age 13, son of Otto Runge the grower of Wakefield, was accidentlly injured by the explosion of a cartridge from an old Springfield rifle last Saturday. The youth is at the Massachusetts general hospital and while not mortally wounded, it is feared he will lose the sight of one eye.

The children of the west end schools were allowed to visit the flower show of the Massachusetts Horticultural Society. They were conducted through the hall and the names of the flowers and their varieties were explained to them.

W. H. Elliott having outgrown his salesroom in the Back Bay is seeking new quarters in the same section where his stock may be better handled under the able supervision of his agent Al Hutson.

Wm. Winton, formerly connected with W. E. Doyle's Beacon street store, has established a retail store in his own name at City square, Charlestown.

Sydney Hoffman has procured a new four seated Buick runabout which he uses to good advantage both for business and pleasure.

Thos. Conners, for many years with G. W. Sutherland, has joined the force of J. Newman & Sons on Tremont street.

B.

Buffalo.

TRADE QUIET.

The weather is very changeable and not good for the advancement of Easter stock. However, the local growers have their stock far enough advanced to get it in all right. Trade has been on the quiet side with the exception of a few banquets to prominent visitors.

NOTES.

The opening of J. Benson Stafford's new store on Main street was the feature of Saturday, and Mr. Stafford is to be congratulated on the beautiful store. The interior is designated as a pergola, the color scheme, blue, ceiling and walls, with the woodwork white with green lattice work on each side of the mirrors. An icebox about 40 feet from the front in white, is very attractive. The furnishings, such as tables, desk and all things that go to make up an up-to-date place are to be seen there. The stock was of the choicest and the best wishes of the trade are with Mr. Stafford.

Advance displays are to be seen in Palmer's and Anderson's for Easter in the plant line which looks good for a fine lot of stock. S. A. Anderson was appointed one of the commissioners to appraise the land needed by the city as a turning basin in the harbor. It is a very important commission and goes to show that in important things florists are usually chosen.

The East Side Business Men's association was never in a more flourishing condition than now and it is said that it is due to the untiring efforts of President Charles Shoenhut, the William street retailer.

J. Rowland Cloudsley of the Lenox Flower Shop has changed his lighting system and put in a room exclusively for boxes. His conservatory has been repainted and all looks good for Easter.

The next meeting of the Florists' Club will be presided over by President Slattery when he will announce his committees for the ensuing year.

Jerry Brookins of Orchard Park has been ill for two weeks but hopes are entertained for a speedy recovery.

Miss R. M. Rebstock has painted her store and generally brightened up for Easter.

W. C. Burchi of Pine Ridge has a fair lot of hyacinths for Easter.

Visitors: Mr. Smith of Smith & Felters, Cleveland, O.; M. Zirkman and S. J. Green of Philadelphia, Pa.

BISON.

DERRY, N. H.—Samuel Bloomfield of Windham is the new grower at Kingsbury's greenhouses on Franklin street.

WOODSTOCK, VT.—George F. Mass, of New York, son of Geo. H. Mass of this city, recently married Miss Emma Trumptheller.

NATICK, MASS.—It is stated that Alex. Montgomery, Jr., has acquired some 50 acres of land at East Hadley on which he will establish a commercial greenhouse plant for the production of roses.

Your Easter Stock

Easter will soon be here. **Have You Ordered Your Easter Flowers?** It's time to be thinking of it, and we want you to know that we can give you the best in quality, price and variety that the Philadelphia market offers. You owe it to your business and to yourself to place your orders where you can get the best value for your money.

The Leo Niessen Co.

Wholesale Florists, 1209 Arch St., Philadelphia, Pa.

AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

—Send For Prices.—

W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.

(Limited)

The Wholesale Florists of Pittsburgh,

222 Oliver Ave., PITTSBURGH, PA.

Headquarters for Choice Flowers.

J.B. Murdoch & Co.

714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.

WRITE FOR PRICES.

W. E. McKissick & Bros.

WHOLESALE FLORISTS.

Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

ABSOLUTELY THE BEST POSSIBLE SERVICE.

EASTER VIOLETS and All the Staples.

No Pickled Stock. Prices Right.

McCALLUM CO., Inc. Pittsburg

Cleveland.

OUTLOOK FOR EASTER GOOD.

Trade the past week was very quiet up until Friday, when all lines of stock seemed to clean up at fairly good prices. On Saturday the demand was very brisk and almost all the available stock sold at an advance over the week's quotations. Sweet peas are having a good call and the quality and quantity was never better. Lilies and smilax were very scarce at the end of the week as were also white carnations. The Easter outlook is very promising in most lines although there does not seem to be as much stock in sight as in former years; the prices quoted so far are about the same as last year but liable to vary on account of the weather. There are some grand lots of Easter lilies, both cut and in pots, that will be in fine shape and in any quantity. Some very fine samples are being shown by The Cleveland Florists' Exchange.

NOTES.

A visit to the carnation growing establishment of F. C. Bartels at North Olmsted found everything in the very best of shape. This place has the honor of producing the finest carnations grown around the city and the stock without exception shows it. The cut for Easter will be fair with good weather fully up to the average and the quality exceptional. This place produces many smaller flowers such as sweet peas, calendula and snapdragon also Asparagus plumosus and A. Sprengeri, all of which are well grown. Much credit is due Mr. Bartels for the manner in which the place is kept.

At the place almost opposite we found the proprietor, A. M. Coe, busily engaged in the houses. This place is almost entirely devoted to carnations which are well worth seeing, especially those grown in the new iron frame house that was added the past season. The cut from this place will be at its best for Easter. The finest Winsor carnations that the writer has seen are to be found here and if all growers could do it as well, most of the other varieties would have to take second place.

Wholesale Flower Markets

PHILADELPHIA, Mar. 31.	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, Mar. 31.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	3 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 2 50
Daffodils	2 00@ 2 50
Lilium Longiflorum	12 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50
Tulips	2 00@ 4 00
Violets, single	25
" double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, Mar. 31.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	3 00@ 4 00
Callas	8 00@12 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties

The finest in this Market.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

There has been a great deal of dissatisfaction lately at the Florists' Club meetings, but through the resignation of several members we hope the meetings will be more in harmony, as some of the younger members withdrew in honor of the older heads.

The weather here at this writing (Monday) is a regular March blizzard with a very heavy snowfall which will shorten the cuts in all lines considerably.

Visitor: B. Eschner of Rice & Co., Philadelphia, Pa. FORESTER.

Providence, R. I.

Prospects for Easter are as good as in the past, and we know of nothing on the short list. Violets are going a little slow the past two weeks, but the quality still holds good. The trade has not indulged to the usual extent in publicly announcing cheap sales on these flowers.

O. H. Williams & Son Co. are bringing in some very large Dutch hyacinths in 6-inch pans, three bulbs; these retail at 50 cents. They have a big supply for Easter.

C. S. Macnair swung the circle last week, taking in the prominent cities in southern Massachusetts and northern Connecticut. He found Easter stock in plenty.

The Keller Co. make a daily special display of violets and pansies in a fine outdoor glass case which never fails to catch the attention of passers-by.

T. J. Jonnston & Co. have refurnished and painted their larger delivery wagon, and have used a new style of lettering which is very pleasing.

F. E. Saunders who has a neat stand on Elmwood avenue, always has a good window display. M.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Toronto, Ont.

WITH HIGHEST GRADE ARTISTIC WORK

Dillemuth FLORIST

Can be relied on to fill all mail, telegraph or cable orders.

438 Spadina Avenue.

Long Distance Phone Main 2409

Toronto, Can.

Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

Washington, D. C. 14th & H Sts.

Baltimore, Md. 1601 Eutaw Plac

Blackistone

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. VIRGIN, 838 CANAL ST.

Brooklyn, New York.

"WILSON"

3 and 5 Greene Ave. and 339 to 347 Greene Ave.

Greenhouses: Short Hills, N. J.

— Deliveries in —

NEW YORK, LONG ISLAND and NEW JERSEY.

GUDE BROS. CO. FLORISTS 1214 F ST. N.W.

WASHINGTON D. C.

Gude's

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS,

Successor to Chas. W. Reimers'

329 FOURTH AVENUE.

M. A. Bowe

IN HEART OF NEW YORK CITY

Phone 2270 38th St. 1294 Broadway

Our Motto—THE GOLDEN RULE.

Philadelphia, Pa.

Robert Kift,

1725 Chestnut Street.

Prompt and Careful Attention given to all Mail and Telegraph orders.

New York.

MYER, FLORIST,

609-611 MADISON AVE.

Phone 5297 Plaza.

Buffalo, N. Y.

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W. J. Palmer & Son, 304 Main St

Louisville, Ky.

JACOB SCHULZ,

550 So. Fourth Avenue.

Omaha, Neb.

Hess & Swoboda,

FLORISTS,

1415 Farnum St. TELEPHONES 1501 and L 1582

Albany, N. Y.

EYRES

Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

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San Francisco, Calif.

J. B. BOLAND

Successor to Sievers & Boland.

FLORIST,

60 KEARNEY STREET.

Denver, Colo.

The Park ...Floral Co.

J. A. VALENTINE, President.

Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dis. Bell Phone

Los Angeles, Cal.

J. W. Wolfskill,

FLORIST,

Telegraph Orders a Specialty. 218 W. 4th St.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable Cable address "Daniels, Denver"

Indianapolis, Ind.

Bertermann Bros. Co.

FLORISTS

..... 241 Massachusetts Ave.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold
FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.
HAUSWIRTH FLORIST
M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.
JULIUS BAER,
138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.
The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.
Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.
GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

Kansas City, Mo.
Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

St. Louis, Mo,
Write, Wire or Phone Your Orders to
YOUNGS
1406 Olive Street,
Regular discount allowed on all orders, either Plants or Cut Flowers.
Phones Bell, Main 2306, Kinloch, Central 4981

Atlanta, Ga.
ATLANTA FLORAL CO.
41 Peachtree Street.

Detroit, Mich.
John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.
Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.
HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Fred H. Weber,
FLORIST,
BOYLE and MARYLAND
Flowers delivered state or city on short notice. ST. Louis, Mo.

Anderson, S. C.
THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Steamship Sailings.

WEEK ENDING APRIL 10.

Apl. 6, Ivernia, Boston-Liverpool.
Apl. 6, Saxonia, Liverpool-Boston.
Apl. 6, Bulgaria, New York-Genoa.
Apl. 6, Potsdam, New York-Rotterdam.
Apl. 6, Kaiser Wilhelm II, New York-Bremen.
Apl. 6, Kronprinzessin Cecilie, Bremen-N. Y.
Apl. 7, Lucania, New York-Liverpool.
Apl. 7, Majestic, New York-Southampton.
Apl. 7, Teutonic, Southampton-New York.
Apl. 8, Tunisian, Liverpool-St. John.
Apl. 8, Numidian, Portland-Glasgow.
Apl. 8, La Lorraine, New York-Havre.
Apl. 8, Marquette, Antwerp-Boston.
Apl. 8, K. Augusta Victoria, Hamburg-N. Y.
Apl. 8, Breslau, Bremen-Baltimore.
Apl. 8, Yorck, New York-Bremen.
Apl. 9, Baltic, Liverpool-New York.
Apl. 10, Corsican, St. John-Liverpool.
Apl. 10, California, New York-Glasgow.
Apl. 10, Furnessia, Glasgow-New York.
Apl. 10, Philadelphia, N. York-Southampton.
Apl. 10, New York, Southampton-New York.
Apl. 10, Caronia, New York-Liverpool.
Apl. 10, Friesland, Philadelphia-Liverpool.
Apl. 10, Campania, Liverpool-New York.
Apl. 10, La Savoie, Havre-New York.
Apl. 10, Zeeland, New York-Antwerp.
Apl. 10, Celtic, New York-Liverpool.
Apl. 10, Southwark, Portland-Liverpool.
Apl. 10, Amerika, New York-Hamburg.
Apl. 10, Ryndam, Rotterdam-New York.
Apl. 10, Koenigin Luise, New York-Genoa.
Apl. 10, Roon, Bremen-New York.

THE DALLES, ORE.—March 20 was celebrated as rose-planting day here. The City park received the attention of the women of the Sorosis club. Trees, rose bushes and shrubbery, which had been donated by citizens, were planted in the park grounds under the supervision of the women of the club. The entire afternoon was devoted to the work. The park was donated to the city about three years ago through the efforts of the women of this club. In the future rose-planting day will be observed annually in this city.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
Western Union Code.

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59-61 FLORIST Massachusetts Ave. for Commonwealth Ave.
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Boston, Mass.
FRANK H. HOUGHTON
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Telephone Connection. 396 Boylston St.

Terre Haute, Ind.
John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.
Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. Phone 1912.

Owatonna, Minn.
Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

St. Paul, Minn.
L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Milwaukee, Wis.
C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

CABBAGE under the new law pay a duty of 2 cents each instead of 3 cents.

SOME fire engines at Chicago were busy 15 days at the Dickinson fire.

CHAS. P. BRASLAN, San Jose, Calif., is rejoicing in the arrival of Princess Olga, a 12-pound girl, March 27.

VAN ZANTEN & Co., bulb growers of Hillegom, Holland, celebrate their twenty-fifth anniversary this year by the issue of an unusually elaborate catalogue containing illustrations of their establishment and portraits of the members of the firm.

LONDON reports March 15 an old fashioned winter which is severely damaging plants standing in the open growing for seed purposes. The full extent of the damage cannot yet be told. Very good fill-in orders have been received by the London trade from America while offerings of contract orders have also been liberal.

NEW YORK, March 31.—The following were present at the second hearing of the Callan pure seed bill March 30: Messrs. Sherman, Bennett, Gordinier, Nott, Forbes and Duryea. It is thought the bill as now amended along the lines of adulteration will be reported favorably by the committee on agriculture.—Marshall H. Duryea.

FRENCH BULBS.—Advices dated March 19 are to the effect that the syndicate will defer taking any action in the matter of prices until next month on account of the present unfavorable weather conditions. The freezing weather which has prevailed will probably be followed by a more seasonable temperature, but a continuance of the present conditions would interfere with the development of the bulbs and might endanger the crop.

CHICAGO.—The seed business generally has been picking up with the milder weather.—Prices of onion sets rule about the same as last week with reds and yellows at about $1.75 and $2.75 to $3.10 for whites.—There is a good demand for early seed potatoes with most varieties well cleaned up.—Oats are scarce and the demand strong.—Contract prices on the board of trade March 31 for grass seed were noted as follows: Prime timothy, $3.80 (nominal), white clover, $16.—J. C. Vaughan is in Washington this week on tariff matters.

THE sugar beet growers have evidently had a session with the tariff committee, as a new clause has been added to the law, No. 246, which reads: "Beets, including sugar beets, 25 per cent ad valorem."

Proposed New York Seed Law.

In reference to a preliminary meeting, called by the writer at the Hotel Ten Eyck, Albany, N. Y., Monday evening, March 22, at 8 p. m., in order that some action might be taken regarding Assembly Bill No. 736, introduced by Assemblyman Callan, the following seedsmen were present or represented at the hearing:

E. E. Bruggerhof, of Thorburn's, New York.
Alex Forbes, of Peter Henderson's, New York.

Women Seed Dealers in Paris.

Quai De La Cite.

Edward F. Dibble, Honeoye Falls, N. Y.
F. H. Ebeling, Syracuse, N. Y.
Geo. H. Price, Albany, N. Y.
J. M. Lupton, Mattituck, N. Y.
H. W. Gordinier, Troy, N. Y.
Chas. Eckstein, Buffalo, N. Y.
M. Parker, of Rice Seed Co., Cambridge, N. Y.
Nott Seed Co., Troy, N. Y.
Barber & Bennett, Albany, N. Y.
Sherman & Eberle, Albany, N. Y.
Fonda, Rochester, N. Y.
James Vicks' Sons, Rochester, N. Y.
Mandeville & King, Rochester, N. Y.
Averill, Rochester, N. Y.
Hathaway, Rochester, N. Y.
Crossman Bros., Rochester, N. Y.
Briggs Bros., Rochester, N. Y.
Brewster, Crittenden & Co., Rochester, N. Y.

The above mentioned parties were also present at the hearing of the bill which took place at 2 p. m. on the following day before the committee on agriculture, C. Fred Boshart, chairman. No definite conclusion was reached at the hearing, but Chairman Boshart suggested that we appoint a special committee of seedsmen to draft a bill and co-operate with Assemblyman Callan, and to report to the committee on agriculture again March 30.

With reference to this act, "To amend the agricultural law, entitled 'An Act in Relation to Agriculture, Constituting Chapter One of the Consolidated Laws,' in relation to inspection and sale of seeds," we understand the penalty for violation of the law as expressed in Assemblyman Callan's bill is as follows:

Every person violating any of the provisions of this chapter shall forfeit to the people of the state of New York the sum of not less than fifty dollars nor more than one hundred dollars for the first violation and not less than one hundred dollars nor more than two hundred dollars for the second and each subsequent violation. When such violation consists of the manufacture or production of any prohibited article, each day during which or any part of which such manufacture or production is carried on or continued, shall be deemed a separate violation. When the violation consists of the sale, or the offering or exposing for sale or exchange of any prohibited article or substance, the sale of each one of several packages shall constitute a separate violation, and each day on which any such article or substance is offered or exposed for sale or exchange shall constitute a separate violation. When the use of any such article is prohibited each day or any part of which said article or substance is so used or furnished for use, shall constitute a separate violation, and the furnishing of the same for use to each person to whom the same may be furnished shall constitute a separate violation. Whoever by himself or another violates any of the provisions of articles three, four, six, eight and nine, or sections three hundred fourteen and three hundred fifteen of this chapter or of section one hundred six, one hundred seven and one hundred eight of this chapter, shall be guilty of a misdemeanor, and upon conviction shall be punished by a fine of not less than fifty dollars nor more than two hundred dollars, or by imprisonment of not less than one month nor more than six months or by both such fine and imprisonment, for the first offense; and by six months' imprisonment for the second offense.

This is a matter of vital importance, and we fear, owing to the rush of business at this time of the season the matter is not having as careful attention as its importance warrants, and it is sincerely hoped that there will be a good attendance of the seedsmen at the next hearing which is set down for Tuesday, March 30.

MARSHALL H. DURYEA,
Second Vice-President of American Seed Trade Association.

Lawyer Flays Gov't. Seed Distribution.

To the Honorable, the President of the United States of America:

I enclose herewith two packages which apparently have been sent me through the courtesy of the congressman from this district. I appreciate his desire that I experiment with the carrot, cucumber and other seeds supposed to be contained in the packages, but frankly I have no use for the seeds at this time, and if I had, I would prefer to purchase them from a local seedsman, and so far as I am informed, every honest man in this community has the same feeling in regard to the matter.

During the first 26 years of my life I lived in the country on a farm, and government seeds were sent freely to my home and homes of my neighbors, and I never knew the slightest good to come from the practice except that possibly a few easily moved individuals might have imagined that they were in close touch with their congressman, or the department, and had their vanity appealed to in that manner. I have been a resident of the city of Rockford for the past 12 years, and during 10 years of that time have been a practicing lawyer, and have

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

O. V. ZANGEN, Hoboken, N. J.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. **Varela's Improved Onion Seeds** will give best satisfaction to growers. Insist on getting them It will pay you.
Federico C. Varela, Teneriffe, Canary Islands

marked the approach of each successive spring by liberal supplies of government seeds being received through the mails by hundreds of citizens of this city who literally have not one inch of land upon which to plant seeds, or experiment with them in any way whatever.

I venture to state that the free distribution of seeds on the part of the government in this country accomplishes no good whatever, either for the individual farmer or for scientific agriculture, and it has always been a matter of surprise to the writer that the system has not been long since overthrown.

Yours respectfully,
FRED E. CARPENTER.
Rockford, Ill.

Imports.

During the week ending March 20, imports were received at New York as follows:

McHutchison & Co., 127 cases plants.
Wm. Elliott & Sons, 14 cases plants, 13 pkgs. trees.
P. Ouwerkerk, 21 cases trees.
A. Rolker & Sons, 15 cases plants.
Frank H. Darrow, nine cases trees, 10 pkgs. seed.
Yokohama Nursery Co., two cases shrubs and trees.
C. C. Abel & Co., two pkgs. plants.
J. M. Thorburn & Co., 71 bags seed.
Vaughan's Seed Store, two cases bulbs.
To others, 251 cases, 62 pkgs. plants, 12 cases trees and shrubs, 49 cases bulbs, 587 bags clover seed, 141 bls. clover seed, 394 pkgs. clover seed, 1,052 bags millet seed, 681 bags seed.

During the week ending March 27 imports were received at New York as follows:

McHutchison & Co., 221 cases, 20 pkgs. plants.
Wadley & Smythe, 112 cases, 15 pkgs. plants.
P. Ouwerkerk, 69 cases trees.
W. Elliott & Son, 54 cases plants.
H. F. Darrow, 52 cases plants, 13 pkgs. seed.
Stumpp & Walter Co., 51 cases plants.
Vaughan's Seed Store, one case plants.
A. T. Boddington, two cases bulbs.
Schulz & Ruckgaber, 220 bags seed.
Brown Bros. Co., 212 bags seed.
H. Nungesser & Co., 104 pkgs. seed.
To others, 261 cases, 235 pkgs. plants, 1,292 pkgs. shrubbery, eight cases shrubbery, 11 cases bulbs, 20 cases lily bulbs, eight cases roses, 480 bags seed, 280 bags clover seed.

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Landreths' Seeds
BLOOMSDALE FARMS
BRISTOL, :: PENNA.
If you want Seeds for filling in, name varieties and quantities.

Seed Beans
F. L. HOGUE,
CARPINTERIA, CALIF.,
Grower for the Wholesale Trade only.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

Skidelsky & Irwin Co.
SEEDS, BULBS AND PLANTS.
144 N. 7th St., PHILADELPHIA
KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

The Everett B Clark Seed Co.
Growers for the Trade,
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors......⅛-oz. 60c; oz. $4.00
Pure white......⅛-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

PARSLEY may be sown outside at any time now if the soil can be got into good condition.

PLENTY of air moving about the young plants of tomatoes, eggplants and similar stock is absolutely necessary at this time.

DURING the week of March 20 onions sold in Covent Garden market, London, at 18 shillings per cwt. of 112 pounds. Forced rhubarb brought 18 shillings per dozen bunches, same having sold at Christmas for 14 shillings. These high prices are said to be due to the exceedingly cold weather.

Halifax, Mass.

VISIT OF BOSTON GARDENERS.

One hundred and fifty-three members of the Boston Market Gardeners' Association left there March 20 for this city where they were welcomed by Walter E. Lenk, superintendent, and his brother, Edwin Lenk, and thoroughly inspected this plant, which includes eight large greenhouses with packing house, office, etc. The houses are now filled with crops of lettuce, cucumbers and a few tomatoes. After the inspection the guests were shown into the shipping house which had been transformed into a banquet room, where a fine lunch was thoroughly enjoyed. A. C. Burrage, who was the instigator of this greenhouse plant, sent a quantity of fine oranges for the occasion from his own grove in Redlands, Calif.

After the banquet the association held its regular business meeting, followed by remarks by Superintendent Walter E. Lenk, who introduced the principal speaker, Prof. H. D. Haskins of the Hatch Experiment Station at Amherst, who took for his subject, "Fertilizers." He was followed by Prof. B. S. Pickett of New Hampshire Agricultural College, who spoke on "The Relation of the Experiment Stations to the Farmer and Market Gardener." Other speakers were: T. L. Creeley and J. O. Wellington of Belmont. The party left on their special at 5 o'clock.

South Manchester, Conn.

The California and Florida crop of cauliflower is now coming in less quantity and buyers are again inquiring of local growers for the greenhouse product. Parsley is selling readily at 30 to 35 cents per dozen, parsnips and carrots 50 to 60 cents, new greenhouse beets, $1 a dozen, bunched four in a bunch, radishes 30 cents a dozen, onions 40 cents a dozen. Connecticut weather is a trifle below the average.

At the Cheney Farm we noticed a very heavy crop of mushrooms just coming on. As this crop is bringing 50 to 75 cents a pound, the heavy cut is helping out the extra labor expense account. We also noticed that another long bench of rhubarb was going in the dark house even if it is starting in the field, and learned that this was being done to keep up a certain supply until the field crop was ready. Many thousands of cabbage, celery and tomato plants, also peppers and Spanish onion plants were seen there. Thomas L. Brown, superintendent of this farm, has delivered addresses lately at farmers' institutes on the subject of "Successful Market Gardening."

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

THE STRAWBERRY BLIGHT

Its Cause and Cure.

How to more than double the yield of crop without increasing the cost of production. A great discovery. Price of book $2.00: worth $25.00.

WM. C. TRIMBLE, Princeton, Ill.

The ground is now in shape for sowing onions, beets, lettuce, radishes and all the hardier varieties of vegetables. Onion sets are going in and rhubarb, etc., is being planted. Everyone has come to the conclusion that spraying is necessary. The currants are sprayed with some oil spray emulsion first and tree fruits later, but all are busy.

Grand Rapids lettuce is making a market for itself in the east. At last, the people are finding out that it is good to eat. The grower has found out that the variety is his choice, and the dealer has found out that it holds up fresh for sale longer than the head lettuce. It sells best under the name of Western Cos.

The Black Hall Greenhouses are preparing for another bumper crop of cucumbers; new soil is being put in at this time; the crop in the very fresh soil seems to pay for the change of soil even at this date.

Hartford market gardeners are expecting a continuance of strong competition from Boston, but do not expect to give over their markets and they are preparing for extensive planting.

Nash and Nettleton are replanting their greenhouses to Grand Rapids lettuce. B.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points March 27 were as follows: New York, cucumbers, 75 cents to $1.25 per dozen; lettuce, $1.50 to $2 per strap; mushrooms, 25 cents to 60 cents per pound; mint, 40 cents to 50 cents per dozen bunches; radishes, $1.50 to $2 per 100 bunches; rhubarb, $2 to $4 per 100 bunches; tomatoes, 5 cents to 10 cents per pound. Chicago, cucumbers, $1.50 to $3 per dozen; lettuce, $3 to $3.50 per hamper; mushrooms, 40 cents to 85 cents per pound; tomatoes, 15 cents to 25 cents per pound; radishes, 40 cents to 60 cents per dozen bunches; asparagus, $2.75 to $4 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 cents to 75 cents per dozen; rhubarb, 6 cents to 10 cents per pound, extra fancy, 14 cents; French endives, 25 cents to 40 cents per pound. Cincinnati, cucumbers, $1.25 per dozen; mushrooms, 40 cents to 45 cents per pound. Boston, cucumbers, $8 to $10 per box.

VEGETABLE PLANTS

For Transplanting. 1000

Cabbage, Wakefield and Succession.. .....$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100: 3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain .....40c per 100 3 00
Chinese Giant and Cayenne...50c per 100
Tomato, Earliana, Chalk's Jewell, and Early June Pink . . . . 30c per 100 2 00
Stone, Favorite and Paragon, small plants 1 00
Celery, Small for transplanting White Plume and Golden Self Blanching..... 1 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

NEW CANNA

W A W A

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List.—

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MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

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AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

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MANN'S EXCELSIOR

Are the finest in existence and their flowers bring the best prices in the London market. For quotation please apply to

OTTO MANN, Leipzig, Saxony, Germany

New Aster Lady Roosevelt.

Exquisite old rose, blossom 4½ inch, stem 36-inch, erect. Post free, 400 seeds, $1.00 and smaller quantities.

ALLAN NIELSON,
Chestertown, Maryland.

Seasonable Flower Seeds

10 per cent special CASH DISCOUNT. On orders over $2 for Flower Seeds if cash is enclosed, **10 per cent.** The discount does not apply to Asparagus Seed. Cash discount on this is 2 per cent.

Single Spray Asparagus Plumosus Nanus.

ASPARAGUS PLUMOSUS NANUS, northern greenhouse grown seed. Per 100 seeds, 50c; 250 seeds, $1.00; 1,000 seeds, $3.50; 5,000 seeds, $16.25.

ASPARAGUS SPRENGERI, 100 seeds, 15c; 250 seeds, 25c; 1,000 seeds, 75c; 5,000 seeds, $3.25.

ALYSSUM VAUGHAN'S LITTLE GEM, best dwarf strain in the world. Tr. Pkt., 10c; oz., 30c; ¼ lb., 75c.

ASTER, QUEEN OF THE MARKET, white, pink, crimson, scarlet, light blue, dark blue, each, trade pkt., 10c; ¼ oz., 20c; oz., 50c.

ASTER, CARLSON (Early Flowering Branching), white, rose-pink, lavender, Marquis-pink, violet-blue, daybreak pink and mixed, each, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

ASTER, BRANCHING, white, rose-pink, lavender, purple, dark red and daybreak pink, each, trade pkt., 10c; ¼ oz., 30c; oz., $1.00.

ASTER, VAUGHAN'S UPRIGHT BRANCHING WHITE, re-selected stock, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

CANDYTUFT, GIANT HYACINTH-FLOWERED (Improved Empress), trade pkt., 5c; oz., 20c; ¼ lb., 50c.

CASTOR BEAN, Zanzibar Mixed, trade pkt., 5c; oz., 10c; ¼ lb., 20c.
Zanzibar Enormis, trade pkt., 5c; oz., 15c.
Panormitanus, new, trade pkt., 10c; oz., 25c.

CENTAUREA CYANUS, double blue Cornflower, trade pkt., 10c; ½ oz., 30c; oz., 60c.
Double white Cornflower, trade pkt., 10c; ½ oz., 40c; oz., 75c.

COBEA SCANDENS, purple, trade pkt., 10c; oz., 30c; ¼ lb., 90c.

COSMOS, EARLY FLOWERING WHITE OR PINK, northern grown, each, trade pkt., 10c; oz., 60c.

DIANTHUS HEDD, SNOW QUEEN, best double white, trade pkt., 10c; ½ oz., 30c.

MOON VINE, white seeded, trade pkt., 10c; oz., 30c.

MIGNONETTE MACHET, selected stock, trade pkt., 10c; ½ oz., 25c; oz., 50c.

MIGNONETTE GOLIATH, extra fine, trade pkt., 15c; ¼ oz., 25c; oz., 80c.

NASTURTIUM, VAUGHAN'S SPECIAL MIXTURES, tall or dwarf, each, oz., 10c; ¼ lb., 20c; lb., 60c.

PHLOX DRUMMONDI, large-flowering, white, pink, scarlet, crimson, yellow, each, trade pkt., 10c; ¼ oz., 20c; oz., 60c. Mixed, trade pkt., 10c; ¼ oz., 15c; oz., 50c.

PETUNIA, LARGE FLOWERING SINGLE, "Vaughan's Best" mixture, 1,000 seeds, 50c.

PRIMULA OBCONICA GRANDIFLORA, "Ronsdorf strain," white, rosea and mixed, each, trade pkt., 50c; 1/32 oz., $1.00.

STOCKS, GIANT PERFECTION (cut and come again), white, sky-blue, pink, scarlet, dark blue, each, trade pkt., 25c; ⅛ oz., 40c; oz., $2.50.

STOCKS, PRINCE BISMARCK, new, white, fine for cut, trade pkt., 25c.

STOCKS, WHITE COLUMN, extra, trade pkt., 25c; ⅛ oz., 60c.

VERBENA, "VAUGHAN'S BEST" MIXTURE, trade pkt., 25c; ¼ oz., 50c; oz., $2.00.

Sweet Peas

If to go by mail add 8c per pound for postage.

WHITE—White Spencer, regular stock, oz., 15c; ¼ lb., 40c; lb., $1.50.
Nora Unwin, oz., 10c; ¼ lb., 25c; lb., 80c.
Dorothy Eckford, ¼ lb., 10c; lb., 30c; 5 lbs., $1.25.
Dorothy Eckford, re-selected, oz., 50c.

LAVENDER—Lady Grisel Hamilton, ¼ lb., 10c; lb., 25c; 5 lbs., $1.10.
Mrs. Walter Wright, ¼ lb., 15c; lb., 45c.

LIGHT PINK—Bridesmaid, ¼ lb., 15c; lb., 40c.
Gladys Unwin, oz., 10c; ¼ lb., 20c; lb., 50c.
Countess Spencer, var., oz., 15c; ¼ lb., 40c; lb., $1.25.

ORANGE PINK—Button's Pink, ¼ lb., 15c; lb., 50c.
Helen Lewis, ¼ lb., 20c; lb., 60c.
Evelyn Byatt, ¼ lb., 15c; lb., 40c.

RED—King Edward VII, ¼ lb., 15c; lb., 40c.
Queen Alexandra, ¼ lb., 15c; lb., 50c.

YELLOW—Primrose Spencer, oz., 15c; ¼ lb., 35c; lb., $1.25.
Hon. Mrs. Kenyon, ¼ lb., 10c; lb., 30c.

PINK AND WHITE—Florence Frazer, ¼ lb., 15c; lb., 40c.
Blanche Ferry, ¼ lb., 10c; lb., 20c.

For other varieties, not mentioned, see our **"Book for Florists,"** sent free to commercial florists.

New York. **Vaughan's Seed Store,** Chicago.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

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Royal Netherlands Bulb Nurseries and Export Trade.

HILLEGOM, HOLLAND.

Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA, care of Messrs. Maltus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

Wanted **Ipomoea Palmata or Mexican Morning Glory.** Large size roots. State quantity you have to offer and price.

VAUGHAN'S SEED STORE,
Chicago. **New York.**

Wanted To contract a few thousand 3-in. pot grown Dahlia roots this summer, party having experience, please quote. Address

Key X74, care American Florist.

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Is the new, brilliant, glistening **PINK CARNATION** shown at Indianapolis and awarded the A. C. S. Certificate of Merit, attracting the attention of every carnation grower on account of its very pleasing color, long stiff stem and well formed flowers, measuring 3 to 3 1-2 inches. The calyx is strong, and as a producer it cannot be excelled.

Orders booked now for January, 1910, delivery.

$12.00 per 100; $100.00 per 1000.

Grown and disseminated jointly.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.,** Joliet, Ill.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

DANSVILLE, N. Y.—Alton Randall has purchased the nursery interests of Isaac C. Rogers here.

WE note that a dry-goods house of Seattle, Wash., is offering two-year-old rose bushes at 15 cents each. Get ready for the A. Y. P. is the selling motto.

THE Valdesian Nurseries, Bostic, N. C., say. "The greatest demand for stock in the history of our business and the outlook for the future is exceptionally bright."

CHARLES CITY, IA.—It is stated in the Des Moines Reporter that the Patten nursery in this city has been secured by the Department of Agriculture and will be made an experiment station.

ROCKFORD, ILL.—H. R. Cotta, landscape architect, contractor and proprietor of the Cotta Nursery has removed his office from 625 Rockton avenue to the Ralston building, 122 N. Church street, in order to handle more promptly his increasing trade.

A LONG article, correcting misstatements made about Cuban orange and grape fruit growing, appears in the Consular and Trade Reports for March 15. This publication is free and may be obtained by parties interested on application to the Bureau of Manufactures, Washington, D. C.

UNDER the title of "School Garden Work Announcement of the Cleveland Public Schools, Season of 1908," we have received a most pleasing and attractive little booklet containing a colored illustration of the garden at Rosedale school and many fine illustrations from photographs of the various schools showing the work of the scholars and the troops of happy looking children about their work and at "flower drill" together with interesting descriptive text. This work is evidently well under way in Cleveland and is highly praiseworthy from every point of view.

THE Fernwood Nursery has been incorporated in the state of New York with a capital stock of $70,000. The officers are B. J. Ezechel, president, J. J. Davidson, vice president and L. G. Bernheimer, secretary and treasurer, all of New York. The purpose of the Fernwood Nursery is to raise, import and export general nursery stock and to do landscape gardening, for which purpose the company has bought the estate of Lowell M. Palmer at Stamford, Conn. The estate contains the finest specimens of juniper and rhododendrons, every existent variety that will live in the United States, in very large quantities. The New York office is 53 West Thirtieth street.

Tree Agents Hit.

A bill to punish fruit-tree agents for misrepresentation recently came up for consideration in the Kansas legislature, and for two hours members from the rural districts told how they had been swindled, says the Country Gentleman. One member, a nurseryman, tried to amend the bill to make it easier for the poor agent, but the farmers voted him down and made it a penitentiary offense to sell one kind of a tree and deliver another. The buyer is given seven years in which to detect the fraud.

Gypsophila Paniculata Flora Plena.

The single type of this beautiful hardy perennial is well known as an excellent thing for cutting, its flowers being fine for mixing with others in summer much as stevia is used in winter. Although the double form of it, as shown

Gypsophila Paniculata Flora Plena.
Flowers Natural Size.

in the illustration herewith, has been in commerce for many years it has not so far become very popular though a few firms have grown it. Indications, however, point to an increased demand for it and, though opinions vary as to the need of doubling such flowers as this or whether the doubling adds to their beauty, there is no doubt that the double gypsophila is a beautiful plant, its value for cutting being even greater than that of the single form owing to its lasting qualities.

C. W. Ward and the Lumber Industry.

C. W. Ward has been in Detroit resting from an attack of nervous prostration, brought about by overwork and harassing experiences in the lumber regions of Michigan, where he has large interests, during the time of the serious fires. In a long interview given to the Detroit News Tribune Mr. Ward points out that the lumber lands, while paying taxes to the government, receive practically no protection from it while efficient forestry laws are conspicuously absent. The fact that the fire and game protections are combined, notwithstanding the fact of the forestry commission, he holds largely responsible for its "frightful waste of timber" by fires. He says "While your game warden may be a very pleasant gentleman—he has performed no efficient service in the prevention of fires." Mr. Ward strongly advises that we take a hint from Germany in forestry legislation and practice. There nothing is wasted while in Michigan alone thousands of dollars worth of valuable property is left to rot. Mr. Ward is well known to horticulturists, owing to his connection with the Cottage Gardens Co. of Queens, N. Y.

The Rose of Heldersheim.

A rose tree, that is believed to be the oldest in the world, grows against the church at Heldersheim, Germany. It is described in the Pittsburg Times and its history, or such parts of it as are known and there given, is certainly interesting. It is believed to date from the epoch of Charlemagne—the close of the eighth century and the beginning of the ninth. The local tradition has it that the rose was planted by Charlemagne himself. This great rose tree grows from a crypt under the church, the crypt having been opened at the top for the evident purpose of letting in light and air for the bush. For this reason it is assumed by many persons that the bush is older than the church itself.

The trunk, which is as large as a man's body, traverses obliquely the wall of the church, and enters the open air several inches above the surface of the ground. There it divides into five branches of unequal size. The bush covers a surface of about seven yards in height and eight in width on the side of the church, where it is kept in place by an iron railing.

A bishop named Hepilo was the first to put up a framework to support the branches of the rose, and the fact is mentioned in the archives of the church as occurring in the year 1079. An account written in the thirteenth century declares this rose tree to have been the marvel of the country round about. The ancient rose of Heldersheim is certainly something to set modern lovers of roses to dreaming. How many races of roses have been born since this veteran of their tribe was planted?

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige Mme. Plantier, Alfred Colomb, Perle des Blanches Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100: $120.00 per 1000.

Tausendschon, the great new climber $20.00 per 100
Crimson Baby Rambler .... 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

Bay Trees, Boxwood, Palms, Araucarias

and Other Decorative Material

Evergreens in all choicest varieties.

Roses Dwarf, Climbing, Tree and Ramblers.

CLEMATIS,

and all other Vines and Climbers.

Trained Fruit Trees,
Greenhouse Grapes,
Herbaceous Plants,
Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS, Nurserymen and Florists, **Rutherford, N. J.**

FROM GROWER TO PLANTER

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TREES

Shrubs, Roses Evergreens and Hardy Plants

Are Famous The World Over

Best stock at reasonable prices. No agents. Commissions saved. Collections unequalled. Beautiful illustrated catalogue mailed *free* on request.

MOUNT HOPE NURSERIES

ESTABLISHED 1840 *Box Q, Rochester, N. Y.*

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft.	1.75
2½ to 3 ft. high	2.00
	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds. 18 to 24 in. high	$ 75.00
12 to 14 buds. 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00

	Per 100
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing. none better	$100.00 per 1000 $11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft. high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

THE STORRS & HARRISON CO., Painesville, O.

PRIVET DWARF CHINESE

Fine bushy stock, 3 to 4 ft.,
$15.00 per 100.

We have several thousand **SPECIMEN SHRUBS** of best Spireas, Privet, Honeysuckle, Lilacs, Elder, Forsythia, and many others for immediate effect.

VAUGHAN'S SEED STORE, P. O. Box V, **CHICAGO**

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.

ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.

THE WM. H. MOON CO.,
Morrisville, Pa.

Start Your Season's Business Right

by advertising now in this journal. Don't delay. The best orders are placed early with advertisers in the AMERICAN FLORIST.

CORRY, PA.—Mrs. Caldwell has vacated her store on Center street and now sells at retail at her greenhouses.

SCRANTON, PA.—The annual show of the Florists' Club opened March 25. The exhibits were finer than ever before seen in this city.

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		5.10	45.00
ENCHANTRESS		3.00	25.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		5.00	45.00
RED. Per 500.			
O. P. BASSETT....$35.00	1.50	8.00	60.00
ANDREW CARNEGIE		6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		5.00	45.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants, 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan $12.00 per 100; $100.00 per 1000,

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,

Madison, New Jersey.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

Apple Blossom Wanoka

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100 $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,

BARNEVELD, NEW YORK.

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., **Cincinnati, O.**

New Carnation Lucille

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

BRUNSWICK, ME.—The greenhouse of Wm. Hamilton on Harpswell street, was burned March 16. The loss is estimated at from $800 to $1,000.

Chrysanthemums

Now Is the Time to Decide Upon What to Plant the Coming Season.

The early sorts should be planted in eight weeks.

If undecided which are the best, write us, giving full particulars regarding your **requirements,** and we will submit you a list of the best, with prices for either established plants or **rooted cuttings.**

Do Not Delay Until Stock of the Best Is Exhausted.

Should you intend giving an exhibition for the benefit of your patrons, let us make you an offer. Our stock is complete, contains all the best, and is ready for immediate delivery.

Elmer D. Smith & Co., Adrian, Mich.

Carnation Cuttings and Plants

READY APRIL DELIVERY
Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ...$10.00 per 100, from sand

Mrs. J. C. Vaughan, from 2½-in. pots,.....$12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, **Joliet, Ill**

Send Your Advertisements Early.

O.P.BASSETT

CARNATION PLANTS

Strong, healthy, well-rooted plants from 2½-in. pots. Acknowledged the "Best Red" in the market.

Immediate Delivery, per 100, $10.00.

ROOTED CUTTINGS

ROSES	Per 100	Per 1000
MAIDS,	$2 00	$15 00
BRIDES,	2 00	15 00
RICHMONDS,	2 00	15 00

CARNATIONS	Per 100	Per 1000
WINSOR,	$3 00	$20 00
ENCHANTRESS,	3 00	20 00
LADY BOUNTIFUL	3 00	20 00

Kaiserin 2½-in. Pot Plants.

Greenhouses: Hinsdale, Ill.

BASSETT & WASHBURN,

Office and Store: 76 Wabash Ave., CHICAGO.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns. Boston 4-in. pots, $1.50 per doz., $10 00 per 100; Boston 3-in. pots, $4.00 per 100; Whitmani, 3-in. pots $5.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100.
Cannas, King Humbert and Mt. Blanc, 3 in. pots, $5.00 per 100.
Dracena Indivisa, 5-in. pots $2.00 per doz.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10. 0 per 100; 3-in. pots $5.00 per 100
Clematis, large flowering varieties, dormant plants, $15.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
Ficus Elastica, 6-in. pots, 25c each.
ROOTED CUTTINGS from soil. $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem), Coleus (Verschaffeltii and Golden Bedder). Alternantheras, 4 varieties, 50c per 100, from sand.
Carnations, R. C., from soil, $2.00 per 100—Pink: Enchantress, Dorothy; scarlet: Robt. Craig, Elbon; white: Flora Hill, B. Market.—Winsor, $3.00 per 100
Hyacinths, red, white and blue, first size bulbs, just right for Easter, $10.00 per 100.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

Mary Tolman

A new light salmon pink, of a somewhat warmer tone than Enchantress, and does not fade on the edge of the petals, having a clear, even shade all over the flower, which measures from 3 to 3½-inches, although 4-inch flowers are very common. The stem is long and stiff, holding the flower perfectly erect. The calyx is very strong, and as a producer, it comes early, is very free and continuous.

Orders booked now for January 1910 delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. HUNT BROS, Park Ridge, Ill.

SALEM, ORE.—According to a local report the Oregon Nursery Co. is planting 1,500,000 Red McIntosh apples for the Bitter Root trade.

Grafted Roses

ON SELECTED MANETTI

Clean, healthy wood. Grown especially for grafting

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100. ***Rhea Reid,*** $15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

Jackson & Perkins Co.
NEWARK, NEW YORK

VERBENAS

70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.
Daises, Heliotrope, Salvias and **Alyssum,** dbl. $1.00 per 100; $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000. All rooted cuttings.

Express prepaid on rooted cuttings. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

ROSES

Summer grown; winter rested; on own roots.

See column adv. and prices, page 399, March 20.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors, extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud 1.00
Strong plants bloom in April ..... Per 1000, $5.00
Smaller size plants ..... Per 1000, 4.00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. SOUTHPORT, CONN.
Grower of the Finest Pansies.

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

The Hyde Park Rose Co.

Wishes to inform the trade that they will be able to supply

Only 7,500 More Plants of Their New Taft Rose

and wishes all those desiring stock of this rose to place their orders as soon as possible. Good strong plants from 2-inch pots at **$15.00 per 100 straight; no reduction in lots of 1000.** Address all mail to

THE HYDE PARK ROSE CO., Wasson Ave. and McCormick Road, **Hyde Park, Cincinnati, Ohio**

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

40,000 Var. Vincas

Very strong, $1.00 per 100; $8.00 per 1000. Express prepaid.

C. HUMFELD, Clay Center, Kans.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,

225 W. 16th St., DAVENPORT, IOWA

GET YOUR ORDER IN FOR EASTER PLANTS

Lilies, Spireas, Azaleas, Hydrangeas, &c., &c.

Will ship Lillies in paper pots so they will reach you in fine shape. All will be in for Easter. Ask us to send you our Soft Wooded plant list. **Dreer's Fancy Petunias. Fine Fuchsias, Salvia Zurich, Geraniums, etc., etc.**

GEO. A. KUHL, PEKIN, ILL.

Wholesale Grower.

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet. 50c each; $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

VAUGHAN'S LIST OF

Roses for Forcing

	Per doz.	Per 100
Crimson Rambler.		
2 yrs. old, 2 to 3 ft., well branched, own roots and budded	$2 00	$12 00
3 yrs. old, 3 to 4 ft., well branched, own roots and budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.	Per doz.	100
Strong, dormant, 2 yrs, old	$2 00	$12 00
5-inch pots, strong	4 00	25 00
Tausendschon.		
2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00
Lady Gay.		
5-inch pots, strong	5 00	40 00
KILLARNEY, 2 yr., budded	2 50	18 00
DEBUTANTE, 2 yr.	2 00	15 00
SWEETHEART, 2 yr.	2 00	15 00
HIAWATHA, 2 yr.	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.			
Dormant, field-grown.	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, budded	2 50	16 00	135 00
3rd size, selected, budded	1 50	10 00	80 00
Pot-grown.			
2½-inch	$ 75	5 00	
3-inch	1 25	8 00	
4-inch	2 00	12 00	
5-inch	4 00	30 00	

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

	Each	Doz.	100
White Baby Rambler.			
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00
TREE ROSE Baby Rambler, 1½ to 2½ ft. ..... each, 75c; per doz., 8 00
TREE ROSE Baby Rambler, 2½ to 3 ft. ..... each $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened.

Write us for list and prices.

Manetti Stock for Grafting.

French Stock ..... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings ..... $3.50 per 100 2½-inch pots ..... $5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter; compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN WELL ESTABLISHED Plants

Kentia Belmoreana

	Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high	$ 6 00	$50 00
5-in. " " " 20 in. "	9 00	70 00
	Each	
6-in. " " " 24 in. "	$1 00	12 00
7-in. " " " 32 to 34 in. high	2 50	30 00
7-in. " " " 36 to 38 in. "	3 00	36 00
9-in. tub " " 42 to 48 in. " very heavy	5 00	

Kentia Forsteriana (Made up)

7-in. pot, 4 plants to pot, 34 to 36 in. high	at $2 50
7-in. " 4 " " " 36 to 38 in. "	at 3 00
9-in. tub, 4 " " tub, 44 to 48 in. "	at 5 00
9-in. " 4 " " " 4 ft. high, heavy	at 6 00

All measurements are from top of pot.

Joseph Heacock Co., Wyncote, Pa.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1 00 per 100.
Geraniums, Nutt Doyle, Perkins Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-ih pots, $2 50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5 00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-in., $2.00 per 100, 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia) Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas.**
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newport, N. J.

ROSES

	Per 100	Per 1000
Maids, 2½-in plants	$3.00	$25 00
Brides, 2½-in. plants	3.00	25 00
American Beauty, rooted cuttings	3.00	25.00

Satisfaction Guaranteed.

GEO. REINBERG, 51 Wabash Avenue, CHICAGO, ILL.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

NEW ORLEANS, LA.—J. H. Menard has secured the contract to attend to the gardens and grounds at the soldiers' home at $25 per month.

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond.
Rose pots, $15.00 per 100; 3½-in. pots $18.00 per 100.
Brides, Bridesmaids, Golden Gates, Kaiserin, La France,
Rose pots, $10.00 per 100; 3½-in. pots $15.00 per 100.

OWN ROOTS

Rhea Reid, Chatenay, Richmond, Killarney, American Beauty.
3-in. pots $9.00 per 100; 4-in. pots $12.00 per 100.
Brides, Bridesmaids, Perle, La France,
3-in. pots $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch ..... $5.00 per 100
Pansies, fine plants ..... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each. $7.50 per doz.
Cash with order.

WALTER W. COLES, Kokomo, Ind.

Up-to-Date Directory

Giving all the Country's

Florists
Seedsmen
Nurserymen

PRICE $3.00.

Grow the Cherokee **ROSES** Pink and White

For Easter, 1910

Offer Your Customers Something New and Good

Perhaps one in one hundred of them have seen a **Cherokee Rose.** Have you?

CHEROKEE ROSES

Have dark green, thick and polished evergreen foliage. The flowers are single, 4 to 5 inches across, on very short stems.

THESE REALLY LUXURIANT ROSES ARE THE COMING TYPE

They are ideal for pot culture; grown on solid beds, immense sprays may be cut for Easter

We offer the white (Rosa Laevigata), 2 1-2 in. pots, $3 00 per doz.
The very rare pink variety, Anemone, price upon application.

CITY NURSERIES, S. HOCKRIDGE, Manager, **Redlands, Calif.**

American Everblooming Hydrangeas

Strong, field-grown plants, 15 inches and up, $2.50 per doz., $15 00 per 100: the same, 10 to 14 inches. $1.50 per doz., $10 00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000: B Thunbergii Seedlings 5 to 7 inches. $1.50 per 100, $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3 ft. cheap.

THE E. Y. TEAS CO., Centerville, Ind.

For Quick Cash Buyers 10 000 Pansies, plants untransplanted, best colors, $5.00 per 1000: 2500 pansies, transplanted, including pure white light blue and gold margined black and best mixed colors all in bud and bloom at $2.50 per 100; $20.00 per 1000.

R. M. CANDY, Langhorne, Pa.

Baltimore.

TRADE IMPROVING.

Trade is not very encouraging, although there are some signs of improvement as we advance towards the end of Lent. The weather has been seasonable, quite the average for March. Cut flowers increase in quantity and quality, although from this must be excepted, on some days, carnations which are insufficient for the demand. Roses are abundant, but they do not go off as in normal years. Violets are less abundant than a few weeks ago. The death of two prominent citizens on Monday caused considerable inquiry for funeral flowers. It is almost too early to be able to summarize the promise of stock for Easter, but, probably quite enough will be in on time. Lilies are said to be short in quantity, though some growers have been fortunate in bringing through an unusual proportion of good flowers.

NOTES.

A. R. Watkins, of Montgomery county, is a regular shipper of carnations which are near the top for quality. This gen-

BEDDING STOCK

Strong rooted cuttings of all the Standard varieties, 2¼-inch stock after the middle of April.

FERNS

Boston, Piersoni, Anna Foster, Scotti, Whitmani, Elegantissimma and Sword. 3-, 4- and 5-inch pots. Fine plants.

CANNAS

Egandale, King Humbert, Allemania, Pennsylvania, Chas. Henderson, Duke of Marlboro, David Harum, Florence Vaughan, Queen Charlotte, Mlle. Berat. Strong dormant roots. Also a few other kinds.

PERENNIALS

Shasta Daisies, Gaillardia, Coreopsis, Hardy Pink, Hardy Phlox, Hollyhocks, etc. Seedling, Transplanted stock and field grown plants. All fine stock at low prices.

SEND FOR LIST.

MOSBAEK GREENHOUSE COMPANY, ONARGA, ILL.

Mention the American Florist when writing

Gladioli

Shakespeare, Isaac Buchanan, Octoroon, Pactole, May. Fine seedlings.

Write for prices of above and

Lilies, Iris, Madeira Vines

and Other Bulbs.

E. S. MILLER

Wading River, Long Island, N. Y.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c.
Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem). 2-in., 2c. **Asters,** Earliest, 40c per 100. **Stocks,** Princess Alice, 40c per 100.
Hollyhock, Single field, $2 00 per 100.
Wallflowers, field, $1.00 per 100.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white. yellow; **Swainsona,** alba, $1 00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00 **Vinca Var.,** 90c, $8 00 per 1000: **Alternanthera,** 3 kinds 50c: **Ageratum, Coleus,** 60c. $5 00 per 1000. **Artillery Plant, Hardy Pinks,** 75c: **Flowering Begonias,** $1 25 **Fuchsias,** 8 kinds $1.00; **Salvia,** Splendens, Bonfire, 90c per 100: **Parlor Ivy,** 75c: **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

PANSY PLANTS.

100,000 large flowering from fiield beds, 50c per 100; $2.50 per 1000.

Geraniums 2½-in. pots, my selection, $3.00 per 100.

Vinca Variegated

2¼-in. pots $2.50 per 100.

—Cash—

JOS. H. CUNNINGHAN, DELAWARE OHIO.

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera** red and yellow, 45c; **Vinca Varieg** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula.** Obc. Grandif. Lilac, 2¼-in., strong stock. $1-75 per 100: 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa,

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo S Kalb, fine early: Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset Jeannie Nonin, October Frost, Early Snow, Angele Laurent.
Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean Pink Ivory Rosette.
Yellow—Major Bonnaffon. Cremo, Robt. Halliday, "Baby," small yellow of the button type.
50,000 Rooted cuttings ready Send for prices.

WM. SWAYNE, Box 226, KENNNETT SQUARE, PA.

tleman was engaged in school teaching, went into the florist business to improve his health and reduce his weight. He has been conspicuously successful, enlarging his operations with improved health but "increased" weight.

Richard Vincent & Sons Co. had a fine display of cut geraniums at the last Gardeners' Club meeting, there being about 100 varieties shown including the novelties lately collected and some of marked beauty. The attendance at the meeting was unfortunately quite limited.

Lohr & Fritze, on the Frederick road, have been sending in some fine roses, quite the top notch of this season's offerings and notable for their evenness as to stem, size and foliage, mainly Bride, Bridesmaid and Golden Gate.

John Cook is improving. He is able to sit up daily. The recent commendation his My Maryland rose has received must have been a help to him.

The bowling match last Wednesday at Philadelphia did not bring laurels to our local team, the Washingtons taking first place and the Quakers second.

Wm. J. Halliday is recovering from his illness and back at his Charles street store.

S. B.

PREPARE FOR EASTER

From Whom Will We Purchase Our Easter Supply?

From our old friend, Godfrey Aschmann, of course. He has been our man in the past, and will be the man this year; he also will be the man in the future. He has always treated us right. What he advertises he has and he is no bluff.——An immense stock of **Choice Easter Plants** now ready for immediate shipment. Blooming Easter week or before if desired.

If you would know the fairest sight your eyes can ever see.
Where the most perfect plants are grown, to Aschmann's come with me.
Why! Ne'er since flowers began to bloom was such a glorious show
Of all the best that florists need, found in one place to grow.
The lilies are the very best yet seen on Easter day.
Azaleas are whole sheets of flowers perfect in every way
The Araucarias matchless are so are the ferns all green.
With bulbs, and plumed Spirea, the best you've ever seen
And Aschmann gives a challenge let every florist hear.
For flowers or prices, either no rival does he fear.
If you wish to gather dollars like violets in the spring
Then send your largest order, his plants the cash will bring

AZALEA INDICA.

We are headquarters for these plants for the past twenty-five years. We make a specialty of importing large quantities of this so well known favorite Easter novelty Grown for us in Ghent Belgium by an Azalea specialist Have now three houses full of the choicest. Only well known American varieties are imported They are planted in the fall, as soon as they arrive from Belgium, into 6 7 and 8 in. pots, planted in greenhouses and kept cool during winter. They are now in excellent condition covered with buds, just right for Easter.

☞ We only ship good stock and full of buds and flowers

☞ If you need Azalea plants don't look in vain around the country for bargains, but come or write direct to us. We will be able to supply you with the best obtainable in the American market at moderate prices.

☞ What is the name of the best double pink Azalea? Mme. Van der Cruyssen is the name. Originated by the well known Azalea specialist, Mr. Van der Cruyssen of Belgium. Millions are raised every year and shipped into every part of the globe from Belgium. We have a big stock on hand of this well known variety. Every plant is as round as an apple covered with buds just right for Easter Have all sizes for 60c, 75c $1.00, $1.25, $1.50 $1.75 to $2.00 each.

Deutsche Perle (double white) 75c, $1.00, $1.25 to $1.50; Bernard Andreas Alba (white) we have mostly big plants of this variety $1 50, $2.00, $3.00 to $3 50, a few at 75c, $1 00 to $1 25; Niobe (also white) 75c, $1.00, $1.25 $1.50 to $2 00 each.

Vervæneana, De Schryveriana (double variegated), 75c, $1.00, $1.25 to $1.50; Dr. Moore and Memorie de Louis Van Houtte (double pink) $1.00, $1.25 to $1.50; Apollo (red), 50c 60c, 75c to $1.00; other good varieties, such as John Llewellyn, Empress of India, Talisman, Helena Thielmann, Illustre, etc., 50c, 60c, 75c to $1.00; Professor Wolters, 75c $1 00 to $1.25.

When we are out of one color we send the next similar color; also if we are out of the size ordered, we send the next size, either above or below the price mentioned.

☞ Outside of the Deutsche Perle we have none of the small sizes of white to offer. All the small sizes of Niobe and Bernard Andreas Alba lost their buds during the winter and in transportation from Belgium. They never do good the first year, but are fine the next year.

☞ All the other varieties which we advertise are tip-top No. 1 stock.

Easter Lilies. Lilium Multiflorum, the genuine Japanese Easter lily directly imported by us. We have a friend in Japan who looks after our interests there. He picks out for us only the good, healthy ones, and marks them while they are growing, the 10-in. bulbs, and therefore he ships to us the cream of the plants of Japan. We have Lilies this year to burn; can supply, if nothing happens, every customer and others who want Lilies. If you see them growing in our greenhouses, you must all admit they are "crackerjack9"; we sell them cheap, too. Where other florists get 15c per bud, we only charge you 10c per bud for plants in 6 in. pots, having 5 8, 10 and more buds to the plant. Plants under 5 buds 12c per bud 6-in. pots. Strictly no lilies will be sold by themselves. A reasonable order of other plants must be taken with lilies.

Jerusalem Cherries, large plants, full of buds, 6 to 6½in. pots 35c, 50c.

Moonvines (Ipomœa Multiflora), best white Moonvine for which we have a world-wide reputation now ready 2½-in. pots, $5.00 per 100.

Hybrid Rose Bushes, grafted long plants, 30 inches to 3 feet high John Laing Brunner, Magna Charta etc 6-in pots 50c 75c to $1.00. **Rambler Dorothy Perkins,** etc., 5½ in., 50c; **Hermosa,** 5 in. 35c: 6-in. large stock 50c.

Begonia new improved Erfordi, 5-in., $2.00 per doz; **Begonia Flambeau** 5-in $2.00 per doz

Spirea Gladstone. This variety owing to the dry summer in Holland last year is very scarce this Easter, but we were fortunate enough to secure sufficient to fill our usual house, and the plants are now in fine condition, full of buds just right for Easter, 6-7 in. pots, 50c, 75c to $1 00 each. Spirea Floribunda, Japonica and Superba, 6-in. pots 25c, 35c to 50c

Primula Obconica, 5 in., $2 00 to $2 50 per doz.

Double Daffodils, Von Sion, best yellow, 3 bulbs in a 5-6 in. pot $2.50 to $3 00 per doz. pots.

Hyacinths, 4 best colors, King of the Blues, Grand Maitre (light blue), La Grandesse (best white), Gertrude (best pink) 4-in., $12 00 per 100.

Asparagus Plumosus Nanus, 3-in., $5.00 per 100

Hydrangea Otaksa, in bud, 6-7 in. pots, 50c, 75c to $1 00 each.

Cineraria Hyb Graddiflora, H. F. Michell's new improved strain. Our plants of this strain are twice the size of those of other years, with perfect, large, green foliage. Some of the plants are almost as large as a bushel basket. 6-in. pots, 25c 35c 50c 75c to $1 00 each.

Areca Lutescens, 4-in. 3 plants in a pot, 25c.

Ficus Elastica (Rubber), 5½ to 6 in pots 25c; 30c 40c to 50c.

Boston Ferns, 6-in pots 50c; 7-in. pots, 75c; $1.00 to $1.25; 8-in. pots $1.50.

Scottii Ferns, 5½-in. pots, 40c; 6-in. pots, 50c; 7-in. pots, 75c to $1.00; 8-in. pots $1.50.

Whitmani Ferns, 7-in., as big as a bushel basket, 75c, $1 00 to $1.25; 9-in pans, as big as a washtub $1.25 to $1.50.

Neph. Amerpohli, 5¼, 5½ to 6 in. pots, 30c, 40c and 50c; 6-in., 60c to 75c.

Kentia Belmoreana, 5 good leaves, 5¼ to 5½ in. pots 25 to 30 in high 50c to 60c; 4-in, 35c.

Kentia Forsteriana, 6 to 7-in. pots, 25, 30, 40 to 45 in. high, 75c, $1.00 $1.25 $1.50 to $2 00 each.

Kentia Forsteriana, 5¼ to 5½ in. pots, 20 to 25 in. high 50c, 60c to 75c.

A Few of Many Testimonials Received Lately.

The Cherokee Greenhouses,
Camden, S. C., March 9th, 1909.

GODFREY ASCHMANN,
1012 Ontario Street Philadelphia:

Dear Sir:—Plants received yesterday in excellent condition. Thanks for your selection.

Yours truly, S. M. SHANNON.

Chicago, Ill., March 1, 1909.

GODFREY ASCHMANN Phila.:

Dear Sir:—I was so well pleased last Easter with the collection of Azaleas that I have sent you another order. (The order of Azaleas specified.)

MRS. H. LOWE, 1102 N. 43rd Ave.

March 12, 1909.

GODFREY ASCHMANN:—Your esteemed order of lilies arrived O. K., and were as fine a lot of plants as I could wish for. Enclosed check for same.

Respectfully yours,
HENRY EICHHOLZ, Waynesboro, Pa.

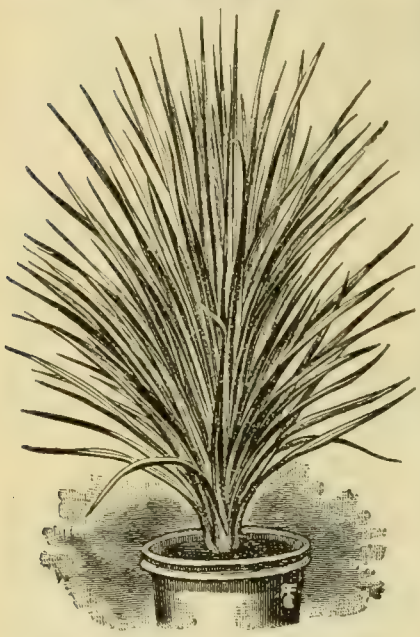
Dozens of more testimonials on application.

GODFREY ASCHMANN, 1012 W. Ontario St., Philadelphia. Pa.

Importer, Wholesale Grower and Shipper of Pot Plants.

Easter Lilies in Pots

Write for Prices.



Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

	Per doz.	Per 100
3-inch	$ .75	$ 6 00
4-inch	1.50	12.00
7-inch	7.00	

You can recommend these plants: first-class value for the money. If you don't want them shipped at once we will reserve them until any date you name only send in your order today.

Adiantum Cuneatum Robecki, strong stock, 3½-inch pots, $8 00 per 100; 4-inch pots, $12 00 per 100.

Send for complete wholesale price list of Palms and Ferns.

The Geo. Wittbold Co.,

1657 Buckingham Place, CHICAGO.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World.

SANDER, St. Albans, England.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

PHILADELPHIA, PA.—Horace T. Dumont has been given his discharge as a bankrupt.

NEW GERANIUMS

If you are interested in Geraniums we would call your special attention to the collection of 1907-1908 Novelties we have to offer this season, fully described on pages 3-17 of our 1909 Geranium catalogue, as near as possible with the introducer's description. We have made a specialty of importing New Varieties for several years, and fully believe that this represents the best collection we have ever offered, or in fact the best collection ever got together in this country, embracing a range of diversified coloring with combinations of marking almost endless, every color and shade found in geraniums are among them.

Special Offer for Immediate Acceptance

OUR SELECTION OF KINDS.

For $10.00 we will send one of each of 100 kinds made up from the 1907-1908 novelties.
For $6.00 we will send one each of 50, 1908 varieties.
For $5.00 we will send one each of 50, 1907 varieties.

These offers are for strictly cash orders, our selection of kinds. Do not ask us to send less than the number mentioned in each offer.

In Standard kinds we have an immense stock of fine plants from 2-in. pots at prices running from $2 00 per 100 to 50c each. We will send 1000, 50 each of 20 good sorts, our selection for $18.50. Cash with order.

We have the following in fine shape from 2-in pots $2.00 per 100. $18.50 per 1000, 25 of one kind at 100 rates, 250 of one kind at 1000 rates.

Achryanthes Emersoni and Bestere Mosaica. **Ageratum,** 5 kinds. **Alyssum. Cineraria** Maritima Candidissima. **Centaurea** Gymnocarpa. **Hardy English Ivy. Parlor Ivy. Lobelia** Kathleen Mallard and Crystal Palace Gem. **Petunias,** Dreer's Superb Single Petunia. **Salvia** Bonfire. **Smilax. Verbenas. Coleus** Golden Bedder, Verschaffeltii, Queen Victoria and Eldorado. **Tradescantias. Salvia** Zurich. $3.00 per 100; $22.50 per 1000.

Hardy Chrysanthemmms 75 kinds, $2.00 per 100. 1000, our selection, 20 kinds, $18.50

R. Vincent, Jr., & Sons Co., White Marsh, Md.

FRESH STOCK, GUARANTEED TRUE TYPE

ORCHIDS

No Greenhouses Direct To You.

Cattleyas all collected in flowering season.

C. Mendelii arrives in May.
C. Mossiæ arrives in June.
C. Gaskelliana arrives in August.
C. Gigas Hardyana arrives in October.

C. Aurea arrives in October.

Miltonia Vexillaria now ready.
M. Roezlii arrives in October.

In any quantity. Place order early.

G. L. FREEMAN, 388 Appleton St., HOLYOKE, MASS.

FOR SALE..

Azaleas, very best mixed colors, 6-in. 75c. $1.00 ea.	
Spirea Gladstone, heavy strong plants, 6-in. 55c ea. per dozen $5 50.	
Asparagus Plumosus, 4-in	$10.00 per 100
Asparagus Plumosus, 3-in	5.00 per 100
Periwinkle out of 4-in pots	8.00 per 100
Rooted Cuttings.	
Stevia out of 2-in., variegated	$ .90 per 100
Dracena Indivisa out of 2-in	2.00 per 100
Clematis Paniculata, out of 3-inch very strong	5.00 per 100
Clematis Paniculata, out of 2-inch extra strong	2.00 per 100

Cash with order.

SAMUEL V. SMITH, 3323 Goodman Street, **Philadelphia, Pa.**

FLOWER SEEDS.

	Pkt.
Begonia Dichroa, Ruby	$ .50
Stocks, Cut and Come Again, asst	.50
" Early Brompton or Nice, asst	.50
Salvia, Bonfire, Farinacea	.25
" Triumph, Zurich	.50
Petunia, large flowering, fringed and stained	.50
" Howard's Star, Inimitable	.25
Lobelia, Lucdenensis, Hamburgia	.25
" Barnard's Perpetual, White Lady	.25
Myosotis, Stricta, 3 colors	.20
" Robusta Grandiflora, 2 colors	.20
Poppy, Alpine, fine for pots	15

All other standard varieties in fresh stocks. Catalogue on application.

Fresh Tobacco Stems, $1.50 per 300 lbs.

W. C. BECKERT. North Side. **Pittsburg, Pa.**

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

The New Crested SCOTTII FERN... NEPHROLEPIS SCHOLZELI

NEPHROLEPIS SCHOLZELI

This crested sport of Scottii will hold the same position to all the crested forms of Nephrolepis that Scottii now holds to the Boston. It is entirely distinct from all others and will become even more popular than its parent, with which it is identical in every way except that the pinnæ are subdivided, giving it a beautiful crested appearance.

We have shown the plant at the exhibitions noted below and have been awarded the following honors:

SHAW GOLD MEDAL, St. Louis Horticultural Society, Nov. 3rd, 1908, for "Best plant, of decided merit for cultivation, not previously an article of North American commerce."

SILVER MEDAL, offered by the Society of American Florists, through the St. Louis Horticultural Society, Nov. 3rd, 1908, for "The most meritorious plant or flower of American origin".

CERTIFICATE OF MERIT of the Horticultural Society of St. Louis, Nov. 3rd, 1908.

SILVER MEDAL, Pennsylvania Horticultural Society, Philadelphia Nov. 3rd, 1908, for the best new plant.

CERTIFICATE OF MERIT, Massachusetts Horticultural Society, Boston, Nov. 6th, 1908.

CERTIFICATE OF MERIT, Dutchess County Horticultural Society, Poughkeepsie, N. Y., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Morris County Gardeners and Florists' Society, Madison, N. J., Oct. 30th, 1908.

CERTIFICATE OF MERIT, Chestnut Hill Horticultural Society Philadelphia, Pa., Nov. 4th, 1908.

We are booking orders now, which will be filled in strict rotation June 1st, 1909.

PRICE: Per doz., $3 50; per 100, $25.00; per 1000, $200.00. Twenty-five supplied at hundred rate and five hundred at thousand rate.

HENRY A. DREER, 714 CHESTNUT STREET PHILADELPHIA, PA.

HEADQUARTERS FOR

ARAUCARIAS

"By jingo," was the remark of a bright looking gentleman, as he stepped with his lady friend into one of our Araucaria houses. "If these are not the best shaped and finest looking specimens of **Araucaria Robusta Compacta, Glauca** and **Excelsa** I have ever seen, *then I am a shade.* ☞ Just look! What a sight this time of the year, one as nice as the other!"

Araucaria Robusta Compacta, Glauca and Excelsa. Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds, same as when we first started. Why the Araucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favoritei n their household, as a good omen. As big as an elephant, for 75c; as big as a jumbo for $1.00; and as big as a holy terror, for $1 25 to $1.50.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful snd beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50 $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old, 4-5-6-7 tiers 6-in. pots, 20-25-30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

GODFREY ASCHMANN

Importer, Wholesale Grower and Shipper of Pot Plants.

1012 W. Ontario St., PHILADELPHIA, PA.

Single Violet Plants

Last call for

BARONNE ROTHSCHILD.

The most profitable variety ever offered the trade. We can book only a few more orders this season. We shall grow this exclusively next season for flowers. Strong rooted runners or divisions, $10.00 per 100; $2.00 per doz.

ADMIRAL AVELLAN IMPROVED.

A seedling of Avellan, but much superior in every way. Fine winter bloomer; large, pansy-shaped flowers, purplish red. Dozen, $2.00. Stock very limited.

PRINCESS OF WALES.

Strong, carefully selected divisions from healthy stock. Ready now. $2.00 per 100; $12.00 per 1000; 500 for $7.00.

Physostegia Virginica Grand.

Texas Heath.

A bed of 100 plants will net you more than a quarter acre of asters. Splendid cut flower. Plants from open ground, $7.00 per 100; $2.00 for 25.

F. W. FLETCHER CO.

Auburndale (Boston), Mass.

This Drummer Never Shirks

It is an advertisement which works 365 days in the year, reaches your customers and gets you new customers everywhere if placed in

THE AMERICAN FLORIST.

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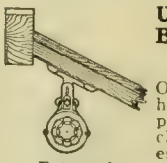

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Easter lilies in pots. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Easter lilies, $12.50 to $15 per 100. Miami Floral Co., 24 N. Main St., Dayton, O.

FERNS.

Ferns, Boston, Annie Foster, Sword and Piersoni, 2¼-in., 3c; 3-in., 6c; 4-in., 12c; 5-in., 25; 6-in., 40c; 8-in., $1. Scottii, Whitmani and Elegantissima, 2¼-in., 5c; 3-in., 10c; 4-in., 20c; 5-in., 40c; 6-in., 60c. Amerpohli, 2¼-in., 10c; 3-in., 15c. Mosbæk Greenhouse Co., Onarga, Ill.

Fern Nephrolepis Scholzeli, $3.50 per doz.; $25 per 100; $200 per 1,000; 25 at 100 rate; 500 at 1,000 rate. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Ferns, Boston, 6-in., 50c; 7-in., 75c to $1.25; 8-in., $1.50. Scottii, 5½-in., 40c; 6-in., 50c; 7-in., 75c and $1; 8-in., $1.50. Whitmani, 7-in., 75c to $1.25; 9-in. pans, $1.25 to $1.50. Amerpohli, 5½ to 6-in., 30c to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ferns, Boston, 4-in., $1.50 per doz.; $10 per 100; 3-in., $4 per 100. Whitmani, 3-in., $5 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz., $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Small ferns for fern dishes, excellent stock, 2½-in., $3.50 per 100; $30 per 1,000. C. C. Pollworth Co., Milwaukee, Wis.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Boston, 3-in., $8 per 100; Whitmani, 2½-in., $8 per 100. Anton Schultheis, College Point, N. Y.

Ferns, Boston, 5-in., 30c each. Geo. M. Emmans, Newton, N. J.

FEVERFEW.

Feverfew Gem, 2-in., 2c. Byer Bros., Chambersburg, Pa.

FICUS.

Ficus elastica, 5½ and 6-in., 25 to 50c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ficus elastica, 6-in., 25c each. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Rubbers. P. J. Berckmans Co., Augusta, Ga.

FUCHSIAS.

Fuchsias, 8 kinds, R. C., $1. Byer Bros., Chambersburg, Pa.

GERANIUMS.

GERANIUMS, 35,000 S. A. NUTT. The greatest dark red bedder. Large selected top cuttings, well rooted, equal to good 2-in. stock, $1.50 per 100; $14 per 1,000. Cash. The W. T. Buckley Co., Springfield, Ill.

Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

GERANIUMS. Rooted cuttings, S. A. Nutt and Perkins at $10 per 1,000. Ricard, Viaud and Castellane at $12.50 per 1,000. Send cash with the order; if unable to fill will return it at once. Albert M. Herr, Lancaster, Pa.

Geraniums, standard varieties, R. C., $1.75 per 100; $15 per 1,000; 2¼-in., $3 per 100; $25 per 1,000. Mosbæk Greenhouses, Onarga, Ill.

Geraniums, Nutt, Bruant, single and dbl. Grant, Buchner, 2-in., 2c. Byer Bros., Chambersburg, Pa.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

If you do not find what you need in our Ready Reference Department, write us about it.

Geraniums, Nutt, 2-in., ready to shift. E. G. Hill Co., Richmond, Ind.

Geraniums, 2½-in., my selection, $3 per 100. Jos. H. Cunningham, Delaware, O.

Geraniums. A. M. Herr, Lancaster, Pa.

GLOXINIAS.

Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

GREENS.

Greens, fancy and dagger ferns, $2 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $8.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

Greens, evergreens, fancy and dagger ferns, bronze and green galax. Geo. Cotsonas & Co., 53 W. 28th St., New York.

Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala.

Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, smilax, ferns, palm leaves, etc. John P. Scherer Union Hill, N. J.

Greens, hardy cut evergreens, etc. Henry M. Robinson & Co., 15 Province St., Boston.

GOLDEN BELL.

Golden Bell (weeping), Forsythia Suspensa, rooted tips and plants suitable for lining out in field or potting, price, 90c per 100, postpaid. Frank H. Wild Floral Co., Sarcoxie, Mo.

HARDY PERENNIALS

Hardy Plants: German iris, named varieties, $2.25 per 100; mixed, $1.50 per 100. Japan iris, named, $8 per 100. Shasta daisies, $2.50 per 100. Hemerocallis, fulva and Kwanso, $2 per 100. Peonies, white, red, pink. Hardy phlox, named, Ornamental grasses, Dielytra spectabilis, Funkin cœrulea, etc., $5 per 100. Field grown. H. H. Kern, Bonner Springs, Kansas.

Field-grown Hardy Phlox in 15 best varieties, fine assortment of colors, $3 per 100; $27.50 per 1,000. The Good & Reese Co., Largest Rose growers in the world. Springfield, O.

Hardy perennials, a fine assortment. Send for list. Mosbæk Greenhouse Co., Onarga, Ill.

Hardy pinks, R. C., 75c. Byer Bros., Chambersburg, Pa.

HELIOTROPES.

Heliotrope, $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Heliotrope, 5 of the best, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Heliotrope, R. C., $1. Byer Bros., Chambersburg, Pa.

HOLLYHOCKS.

Hollyhocks, separate colors, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

HYDRANGEAS.

Hydrangeas, American everblooming, 15 ins. and up, $2.50 per doz.; $15 per 100; 10 to 14 ins., $1.50 per doz; $10 per 100. E. Y. Teas Co., Centerville, Ind.

Hydrangeas, 6½-in., $1 to $1.50 each; 7-in., $1.50 to $2; 8-in., $2 to $3; 9-in., $3 to $5. Anton Schultheis, College Point, N. Y.

Hydrangea Otaksa, 6 to 7-in., 35c to $1. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Hydrangeas. W. & T. Smith Co., Geneva, N. Y.

IRISES.

German iris, 3 named varieties, $2.50 per 100; $20 per 1,000. O. B. Stevens, Shenandoah, Iowa.

Iris pallida Dalmatica, $12 per 100. J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

Iris, Japan, fine clumps. J. M. Thorburn & Co., 33 Barclay St., New York.

Iris. E. S. Miller, Wading River, L. I. N. Y.

IVIES.

Ivy, hardy English, 3-in., $5 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

Ivy, English, $2 per doz.; $15 per 100. Anton Schultheis, College Point, N. Y.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

LILACS.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

Lilac, white and blue and dbl. white, 7 and 8-in., $1.50 to $2 each. Anton Schultheis, College Point, N. Y.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

Lily of the Valley, 5-in., pots, $4 per doz.; 6-in., pans, $6; 7-in., $9; 8-in., $12. Anton Schultheis, College Point, N. Y.

LOBELIA.

Lobelia, Kathleen Mallard, 2-in., $2 per 100; $18.50 per 1,000. Crystal Palace Gem, $1.50 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Kathleen Mallard, double from 2-in. pots, 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

MOONVINES.

Moonvines, extra fine plants, 2½-in pots, $2.75 per 100. Robt. E. Rudolph, Paducah, Ky.

Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Sure Crop. $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, roses, rhododendrons, hydrangeas, conifers, herbaceous and bulbous stock. Wm. Elliott & Sons, 45 Vesey St., New York.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Berberis Thunbergii, seedlings, 5 to 7 ins., $1.50 per 100; $12 per 1,000; transplanted, 8 to 12 ins., $2.50 per 100; $20 per 1,000. E. Y. Teas Co., Centerville, Ind.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, trees, shrubs, roses, evergreens and hardy plants. Mount Hope Nurseries, Box Q, Rochester, N. Y.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock, Calif. privet, 1-yr., $20 per 1,000. American chestnut, 50 large sugar trees. I. & J. L. Leonard, Iona, N. J.

Nursery stock, fruit and shade trees, shrubs, evergreens. W. & T. Smith Co., Geneva, N. Y.

Nursery stock. Storrs & Harrison, Painesville, O.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids, C. Mendelii, C. Gaskelliana, C. Mossiæ, C. gigas Hardyana, C. aurea, Miltonia vexillaria, M. Roezlii. G. L. Freeman, 388 Appleton St., Holyoke, Mass.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Kentia Fors, 6½ to 12-in., from $1.50 to $10 each. Bel., from 6½ to 12-in., $1.50 to $10 each; 4-in., $3 per doz.; $20 per 100. Anton Schultheis, College Point, N. Y.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Palms, Areca lutescens, 4-in., 25c. Kentia Bel., 5 leaves, 5½-in., 25 to 30 ins., 50c to 60c; 4-in., 35c. Kentia Fors., 6 to 7-in., 25 to 45 ins., 75c to $2 each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, Jenning's strain, 1st size in bud and bloom, $1.25 per 100; 2nd size, bud and bloom, $1 per 100; strong plants bloom in April, $5 per 1,000; smaller size, $4; seeds, $1 per pkg.; 4,000 seeds, $4 per oz. E. B. Jennings, box 254, Southport, Conn.

Fancy strain pansy plants, extra large, stocky plants in bloom and bud, $15 per 1,000. Joy Floral Co., Nashville, Tenn.

Giant pansy plants, stocky, field-grown from fall sown seeds, 50c per 100; $3.50 per 1,000, prepaid. Cash. Chas. Frost, Kenilworth, N. J.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, giant flowering, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

Giant Ex. pansies in bloom, $2 per 100; $18 per 1,000. Geo. S. Baylies, Wenonah, N. J.

PANDANUS.

Pandanus utilis, green, 6-in., $6 to $9 per doz. Veitchi, 4-in., $5 per doz; $35 per 100. Sanderi, 4½-in., $6 per doz.; 5-in., $9. Anton Schultheis, College Point, N. Y.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

PEONIES.

Peonias, Double Chinensis. Order Now. 2 to 5 eye divisions in red, pink and white. Splendid values, $1 per doz.; $5.50 per 100. Our list of 116 varieties for fall planting now ready. Ask for it. All the good ones, including the latest varieties. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Peonies, distinct named kinds and colors; strong roots, $1 per doz.; $8 per 100. F. A. Baller, Bloomington, Ill.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

PETUNIAS.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Petunias, double mixed, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

PRIMULAS.

Primula obconica, 5-in., $2 per doz. G. Aschmann, 1012 W. Ontario St., Philadelphia.

PRIVET.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

Privet, dwarf Chinese, 3 to 4 ft., $15 per 100. Vaughan's Seed Store, Box V., Chicago.

If you do not find what you need in our Ready Reference Department, write us about it.

AMURENSE, AMOOR RIVER PRIVET—35,000 6 to 20 ins., for transplanting at $10 per 1,000; 10 per cent off for 5,000 or over; 25,000, 12 to 18 ins. at $12 per 1,000; 20,000, 18 to 24 ins. at $15 per 1,000; 12,000, 24 to 30 ins., $20 per 1,000; 30 to 36 ins., at $25 per 1,000. CALIFORNIA PRIVET, transplanting grade, 50,000 at $6 per 1,000, 10 per cent off for 5,000 or over; 30,000, 12 to 18 ins., at $10 per 1,000. All the above is number one stock, ready for immediate shipment. Delivered f. o. b. Cash with order. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

Rhododendrons. Parson's hardy vars., 8 to 12 buds, 18 to 24 ins., $75 per 100; 12 to 14, 24 to 30 ins., $100 per 100. Storrs & Harrison Co., Painesville, O.

Rhododendrons, 8-in., $2 to $3 each. Anton Schultheis, College Point, N. Y.

Rhododendrons, Jean Bracke, Lochristy, Belgium.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROOTED CUTTINGS.

Rooted cuttings from soil, $1 per 100; Heliotrope, fuchsias, 4 vars.; cupheas, petunias, dbl. white; Vinca Var., feverfew, Little Gem; Coleus, Vers. and Golden Bedder; alternantheras, 4 vars., 50c per 100 from sand. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots and budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots and budded. $3 per doz.; $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins: Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $3 per doz.; $20 per 100; $150 per 1,000; 2nd size, budded, $2.50 per doz.; $16 per 100; $135 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Tree Baby Rambler, 1½ to 2½ ft., 75c each; $8 per doz.; 2½ to 3 ft., $1 each; $10 per doz. Killarney, 2-yr., budded, $2.50 per doz.; $18.50 per 100. Vaughan's Seed Store, Chicago and New York.

ROSES. American Beauty, 2 or 2½-in., $7 per 100; $65 per 1,000; 3 or 3½-in., $9 per 100; $85 per 1,000. My Maryland, grafted strong stock, 3 or 3½-in., $20 per 100. My Maryland, own roots, 3 or 3½-in., $12 per 100. Killarney, own roots, 2 or 2½-in., $6 per 100; $55 per 1,000; 3 or 3½-in., $7.50 per 100. Bridesmaid, Bride, Richmond, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Mrs. Potter Palmer, 2 or 2½-in. $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Perle, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Kaiserin, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Uncle John, 2 or 2½-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

GRAFTED AND OWN ROOT ROSES.

Grafted 2½-in. pots.	Per 100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

Roses, Crimson Rambler, 7-in., $1 to $2 each; 8-in., $2.50 to $8 each; baskets, 8 and 9-in., $2.50 to $6 each. Hiawatha, 7 and 8-in., $3 to $8 each; 7-in., $2 to $3 each. Lady Gay, bushes from $2 to $5 each. Star Flowered Rambler, 15-in. tubs, $15 each; 5 and 5½-in., pots, $1 to $3 each. Baby Rambler, 5 and 6-in., 50c. Everblooming Crimson Rambler, 7-in., $3 to $5 each. Anton Schultheis, College Point, N. Y.

ROSE PLANTS.

2½-INCH STOCK.

	Per 100.	Per 1,000
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
K. Moulton	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Killarney	5.00	45.00
Kaiserin	4.00	35.00

WIETOR BROS.,
51 Wabash Avenue, Chicago, Ill.

Roses, dormant, field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anne de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, hybrid perpetual, dormant field-grown, $11 per 100; $100 per 1,000. Moss, field-grown, $12 per 100. Hardy climbing, field-grown, $8 per 100. Tree roses, 4 to 5 ft., $30 per 100. Storrs & Harrison Co., Painesville, O.

Roses, Maid, Bride, 2½-in., $3 per 100; $25 per 1,000. Am. Beauty, R. C., $3 per 100; $25 per 1,000; bench plants, $7 per 100; $65 per 1,000. Geo. Reinberg, 51 Wabash Ave., Chicago.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, Richmond, Bride, Bridesmaid, 2-in., $2.50 per 100; $20 per 1,000; 2½-in., $3 per 100; $25 per 1,000; 3-in., $4 per 100; $35 per 1,000. E. B. Sage, Red Rock, McKean Co., Pa.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

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Greenhouse construction and equipment. King Construction Co., North Tonawanda, N. Y.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters. Jenning's improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

HOSE.

CRESTLINE SPECIAL, Garden Hose. Made in three different weights. A tough, durable hose that has the life in it. Every section guaranteed. State whether black, red or white.

Price with couplings:	5-ply.	6-ply.	7-ply.
½-in., per 50 ft.	$4.00	$5.00	$5.50
½-in., per 100 ft.	7.75	9.75	10.75
¾-in., per 50 ft.	4.50	5.50	6.00
¾-in., per 100 ft.	8.75	10.75	11.75

Immediate shipment. Express or freight.
THE CRESTLINE MFG. CO.,
Box 233, Crestline, O.

INSECTICIDES.

Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

KNIVES.

Razor steel, hand forged, postpaid. Propagating, 50c; budding, 35c; grafting, 25c; pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, Ohio.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

MISCELLANEOUS.

Krick's Perfect Plant Stand No. 1, including 10-inch saucer and rest, $2.35; No. 2, 14-inch saucer and rest, $2.50. W. C. Krick, 1166 Greene Ave., New York.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Strawberry Blight. Its cause and cure, price of book, $2. Wm. C. Trimble, Princeton, Ill.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Pl., Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

The Kinney pump, prepaid, $2. The Hose Connection Co., Kingston, R. I.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co, 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Stuttle's patent pipe clamp. Henry Stuttle. Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot Mfy., 490 Harvard St., Detroit, Mich.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

STAKES.

Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.
Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Reservoir vases for cemeteries and parks, from $6 to $100 each. Walbridge & Co., Buffalo, N. Y.

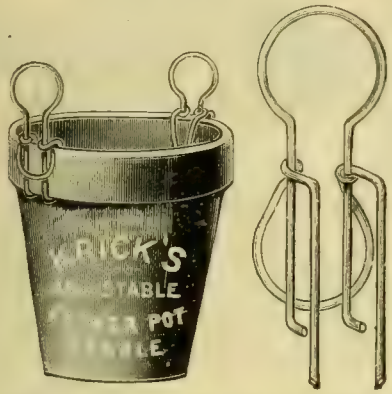
Iron reservoir vases. McDonald Bros., Columbus, O.

VENTILATING APPARATUS.

Ventilators. One Wolf Roller Bearing Machine is raising uniformly 50 heavy hotbed sash. Most powerful and labor saving. Send for estimates and references. The Wolf Machine Co., Dayton, O.

If you do not find what you need in our Ready Reference Department, write us about it.

Have You Used the Perfect Flower Pot Handle and Hanger



It is just the thing for you to display your Easter plants by hanging them on walls, etc., especially when you are crowded for room. Also for lifting plants out of Jardinieres; will sustain a weight of **one hundred pounds.**

No. 1 will fit from 2 to 5-inch pots.....per doz., 30c
No. 2 will fit from 5 to 8-inch pots..... " 40c
No. 3 will fit from 8 to 12-inch pots..... " 50c
By mail, 10c extra per doz. Sample pair, 10c postpaid.

Krick's Perfect Plant Stand

This Stand Is Adjustable and Folding. Can be raised from 24 to 40 inches in height. The top of stand is furnished with a saucer and curved rest, used to tilt plants for decorations.
Are Tastefully Finished in Aluminum and Gilt.
No. 1, including a 10-inch saucer and rest.....$2.00
No. 2, including a 14-inch saucer and rest..... 2.25

Pat. Nov. 21, 1899.

W. C. KRICK, 1164-1166 Greene Ave., **Brooklyn, N. Y.**

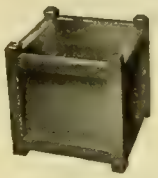
THE WHILLDIN POTTERY COMPANY
THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

Those Red Pots
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y.
HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St.

GEO. KELLER & SON,
Manufacturers of
Red Pots
Before buying write for prices.
361-363 Herndon St., CHICAGO, ILL.

Standard Flower Pots
Porosity and Strength Unsurpassed.
Write for Price
A. F. KOHR,
1521 Leavitt Street, CHICAGO

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.
WAGNER PARK CONSERVATORIES, Sidney, Ohio.

Kramer's Pot Hangers
For Sale by Wholesale Seedsmen, Florists and Supply Dealers.
Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.
I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots
OF FINELY PREPARED CLAY.
Process and catalogue sent on request.
The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

Standard Flower Pots!
Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate.	$4.88	144 6-in., in crate.	$3.16
1500 2¼ "	5.25	120 7 "	4.20
1500 2½ "	6.00	60 8 "	3.00
1000 3 "	5.00	HAND MADE	
800 3½ "	5.80	48 9-in., in crate.	$3.60
500 4 "	4.50	48 10 "	4.80
456 4½ "	5.24	24 11 "	3.60
320 5 "	4.51	24 12 "	4.80
210 5½ "	3.78	12 14 "	4.80
		6 16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

DECORATING FLOWER POTS
A BUSINESS NEED
Send fifteen cents in stamps and we will mail you a cover, price list and booklet, explaining all about these great covers.
EVER READY FLOWER POT COVER CO.,
W. H. Grever, Manager.
146 Hughes Ave., Buffalo, N. Y.

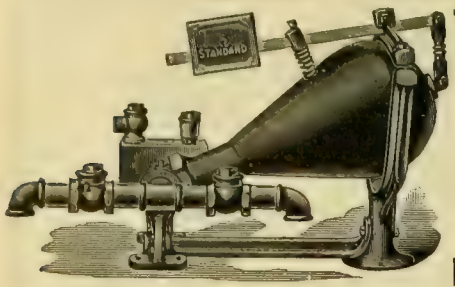
Louisville.

CUT FLOWERS SCARCE FOR EASTER.

Business conditions the past week were very satisfactory in every respect. Roses were in good supply and of good quality, the demand being satisfactory. Carnations moved unusualy well and were of good quality, the supply being almost adequate. Bulbous stock is in good supply and contiues to sell well. Violets of good quality have a fair demand. Lily of the valley is in good supply and sells well, the quality being very good. The supply of green goods is a little better. From the present outlook there will be a good supply of plants for Easter, but cut flowers will be scarce.

Jacob Schulz, as usual, has a very choice lot of flowering plants coming in just right for the Easter trade.

F. L. S.



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

E. HIPPARD, Youngstown, O.

Wired Toothpicks

10,000, $1.75; 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers

Pillsbury's Carnation Staple.

"We consider a very good thing."

That is the report of the Judges Peter Olsen, Geo. A. Kuhl and F. L. Washburn at the Illinois State Florists' convention, Springfield.

"They are certainly the best thing that we have ever used to mend split carnations." G.B. Franks.

2000 for $1.00 postpaid.

I. L. PILLSBURY, Florist, Galesburg, Ill.

A WIRELESS MESSAGE — IF YOU WANT BIG RESULTS — BUY YOUR BUILDING MATERIAL — WOOD · IRON · GLASS FROM FOLEY

BUY FROM WHO RUNS THE IN THE YOU WILL WEAR A CAUSED BY FROM GROWN IN

PHIL FOLEY FACTORY CITY OF CHICAGO. SMILE PROFITS CROPS HOUSES

WESTERN, ARTESIAN AND CAMPBELL AVES. 25TH TO 26TH STS. CHICAGO.

OUR PASTIMES.

At Chicago.

The bowlers met as usual at Bensinger's alleys, 118 Monroe street, Friday evening, March 26, with a very good attendance. Below are the scores made:

Schultz	112	134	136
Krauss	135	108	109
Tribble	140	105	115
A. Zech, Capt.	187	171	136
Total	574	518	498
Straus	134	105	80
Michaelson	131	134	137
Goerisch, Capt.	118	114	141
E. Johnson	144	161	155
Total	527	514	513
Barnett	92	112	148
Armstrong	122	100	158
Graff, Capt.	146	155	192
Canger	80	86	68
Total	440	453	566
Byers	135	151	132
Eberling	111	140	98
Farley	136	130	88
Ayers, Capt.	126	135	124
Total	508	556	442

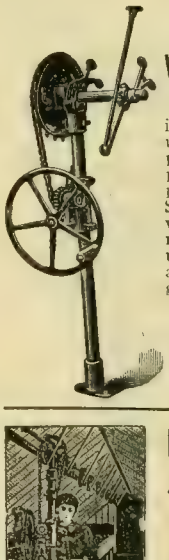
This week, on Friday evening, there will be prize bowling with handicaps according to past scores, with first, second and third prizes for the winners.

At Louisville.

The Florists' bowling club met Monday night, Capt. Doerr's team defeating Capt. Fred L. Schulz's two out of three. Geo. E. Schulz was high with 196 and Karl Rabe was low with 86. Following are the scores:

	1st.	2nd.	3rd.
James Doerr	159	140	164
Wm. G. Walker	171	145	121
Geo. E. Schulz	196	125	124
Louis Kirch	95	138	108
Andy Brand	113	101	159
Robt. Miller	137	144	134
Total	871	793	810
Fred L. Schulz	124	121	181
Ross Walker	142	176	149
Jos. Wettle	146	148	171
Geo. Stark	101	142	104
Jacob Schulz	96	111	136
Karl Rabe	120	86	107
Total	729	784	848

F. L. S.



THE ADVANCE VENTILATING APPARATUS

Has stood the test for years, in all classes of houses and under all conditions. It has pleased every one. See our prices. $10.50 for machine complete, 7½c for D S. and 4½c S. S. pipe Shelf brackets complete with steel arm 10c. Pipe Carriers with steel hooks from 6c up to 11c. Get our circular and price list and see what good things we have for you.

We can please you.

THE ADVANCE CO.
RICHMOND, IND.

EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS

WRITE FOR ILLUSTRATED CATALOGUE

QUAKER CITY MACHINE WORKS. RICHMOND, IND.

Garden City Sand Co.

Chamber of Commerce Bldg., CHICAGO.
Phone: Main 4827.

BUILDING AND PROPAGATING SANDS.

Fire Brick and Fire Clay; Portland Cement, Stonekote, Hard Wall Plaster,

R. I. W. DAMP RESISTING PAINT.

Write today for delivered prices on

TILE FLOORS OR BENCHES

They are everlasting. Standard Floor Tile $19.00 per 1000 sq. ft., factory. Also furnish

DRAIN TILE, (Carload Lots Only)

Our prices are right. Write us before ordering elsewhere.

THE CAMP CONDUIT CO.
718 Garfield Bldg., Cleveland, O.

Always mention The American Florist when you order stock. : : : :

PRACTICAL GROWERS

Recognize the Merits of :: ::

CEMENT BENCHES

Far West.

E. H. HUNT, 76 Wabash Ave., Chicago, Ill.

Gentlemen:—Your favor of March 10th with regard to cement benches was received during my absence. We have now erected about seven hundred linear feet of cement benches, using the Wittbold clamps. So far these benches have been used entirely for plants in pots but we are now planting one bench with Boston ferns. We are placing the drainage holes about five inches apart. We find the cost, including labor and material, to be considerably less than the cost of wooden benches with bottoms of two-inch lumber.

Yours truly,
J. A. VALENTINE.
Denver, Colo.,
President S. A. F.

Home.

E. H. HUNT, 76 Wabash Ave., Chicago, Ill.

Dear Sir:—Your inquiry regarding the Wittbold Cement Bench received and in reply would state that we like them very much, and will install them in all of the new greenhouses which we are going to build. They are cheaper than wood to build, and we can see no difference in the stock grown on them and that grown on wooden benches.

Very truly yours,
BASSET & WASHBURN.
Hinsdale, Ill.

Middle West.

E. H. HUNT, Chicago, Ill.

Dear Sir:—In reply to your letter of inquiry regarding Cement Benches, I beg to say that last summer we erected one bench as per your instructions, using your clamps and molds. This has, so far, proved satisfactory; it is much stronger than a wooden bench; I really believe it to be indestructible. The cost is considerably less than put up of lumber (of course you must consider the lumber forms, etc., in the way of an investment); for instance, to a bench 112 feet by 8 feet, we used 6½ barrels of cement, which cost $1.80 per barrel, or $11.70 total; 500 corks cost us $3.75; wire netting I had on hand; we used the old ashes on which pot plants had been standing; also the old sand that had been used for propagating, so you see the bench is not very expensive. The greatest cost comes in putting up the wooden forms, and the labor connected therewith, but will say that in the future, as soon as benches rot out, they will be replaced with cement benches. I have just finished two more benches, hence the delay in answering your letter. Thanking you for the inquiry, and hoping this will be of benefit to our brother florists, I am

Yours truly,
J. A. PETERSON,
Cincinnati, O.

E. H. HUNT, Chicago, Ill.

Gentlemen:—Yours of the 10th inst. to hand, in regard to cement benches built by us. We have used same for the propagation of roses with good results. In regard to drainage holes we made them promiscuously, about eight inches apart, and filled same with sphagnum moss, packed in loose, just tight enough to hold it in place. We expect to build another one for Carnation propagation next year. For pot plants I think it is the real thing for propagation. We may put in another bench for Carnation growing for trial next fall. Hoping this information will prove of benefit to you, we remain

Yours truly,
MIAMI FLORAL CO.,
Dayton, O.

Far East.

E. H. HUNT, Chicago.

We have grown roses on cement benches, principally Killarney, and as far as I could judge all during the season, watching them closely I can see no difference in the plants between those grown on cement and wooden benches. .... I have made plans to put cement benches into another house 22x350 this summer instead of wood.

Yours very truly,
ROBT. SIMPSON, Clifton, N. J.

Write us to-day for particulars and we will tell you how to save 25% on your bench bills.

E. H. HUNT,

76-78 Wabash Ave., CHICAGO.

Best Quality. Hand-made

Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

——WRITE US.——

Baur Window Glass Co.

EATON, INDIANA.

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.

12 W. BROADWAY

NEW YORK

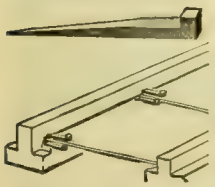
THE BEST WAY

to collect an account is to place it with the

National Florists' Board of Trade

56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



Siebert's Zinc Glazing Points.

Good for small or large glass, do not rust, easy to drive ⅝ and ⅞ inch. Per lb. **40c.** 5 lbs. **$1.85.** 20 lbs. **$7.00.**

VAUGHAN'S SEED STORE,

Chicago or New York.

At Washington.

Geo. C. Shaffer attended the Tri-City bowling match at Philadelphia and returned well satisfied with the scores of his team, having made a total of 2,479 pins, Philadelphia 2,433 and Baltimore 2,282, this makes the Washington bowlers the champions of the three cities.

The florists are rapidly coming to the front, and are fighting hard to win the pennant offered by the amateur district league. The following are the scores made at the Saengerbund alleys:

FLORISTS:			
Shaffer	189	169	199
Hamner	191	161	190
Simmonds	173	189	202
Goodman	193	165	209
McLennon	189	200	174
Total	935	884	974
SAENGERBUND:			
Machler	159	188	181
Burdine	167	173	157
Redeker	179	203	178
Eckstein	153	168	187
Schuerman	177	170	169
Total	835	902	872

G. S.

At New York.

BOWLING MARCH 29.

Chadwick	198	177	204
Donaldson	169	173	236
Traendly	155	142	140
Manda	195	190	172
Young	96	139	141
Scott	131	145	137
Zangen	134	125	122
Berry	105	127	115

Attention!! Glass Buyers!!

WHILE IT LASTS—FIRST COME, FIRST SERVED.

A limited stock of "HIGHEST QUALITY" GREENHOUSE GLASS at the following RECORD BREAKING PRICES:

16x18 A, Double Strength.....$2.20
16x18 B, " " 2.05
16x24 A, Double Strength.....$2.35
16x24 B, " " 2.20

F. O. B. Chicago, Less 2 per cent. for cash. Mention prices when ordering.

——other sizes at low prices also——

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,

Long Distance Phone Monroe 4994.

120 to 128 W. Washington St., Chicago.

Don't Buy the "Just as Good" Kind

Insist upon "the best" brand

Greenhouse Glass

Made by the

World's Largest Producers

Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

AMERICAN WINDOW GLASS CO.

Farmers' Bank Building, PITTSBURG, PA.

The James H. Rice Co.

IMPORTERS and JOBBERS

GREENHOUSE GLASS

A SPECIALTY.

Window Glass, Paint, Putty, etc.

Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

STENZEL GLASS CO.

2 Hudson St., NEW YORK.

——Specialists in——

GREENHOUSE GLASS

in carload lots or less direct from factory.

NO HANDLING. NO BREAKAGE.

Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address

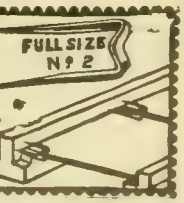
JOHN G. ESLER, Secretary

SADDLE RIVER, N. J.

Holds Glass Firmly

See the Point

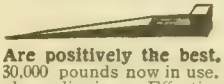
PEERLESS



FULL SIZE No 2

Glazing Points, are the best. No rights or lefts. Box of 1,000 points 15 cts. postpaid.

HENRY A. PEERS, 714 Chestnut St., Phila., Pa.



SIEBERT'S ZINC GLAZING POINTS

Never Rust & Last forever.

Are positively the best. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞. **40c** per lb., by mail 16c extra; 7 lbs. for **$2.50** 15 lbs. for **$5.00** by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

About the Giant Arch Greenhouse.

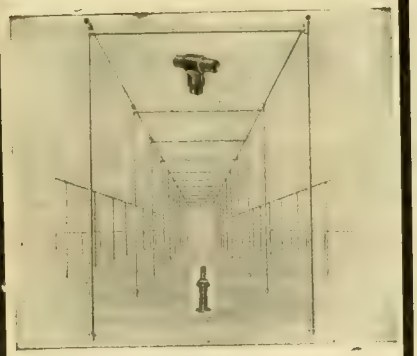
IT is the next best to our Sectional Iron Frame Greenhouse. In fact all the metal parts are of iron. When concrete sides are used, the bars and vent sash and doors are practically all the wood there is in it.

That Giant Arch is a "tower of strength" and right where strength is needed.

The top cut shows the column clamp that makes the arch, and lower cut shows the arch made.

In erecting, you put the arch up first and use it as a scaffold, which saves you time and money as well. See Handy Hand book, page 7. Then let us explain the many other Semi-Iron points to you.

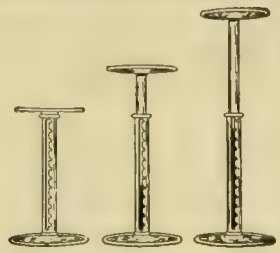
Lord & Burnham Company
1133 Broadway,
NEW YORK.



CINCINNATI, O.—Leo Fern has leased a store on West Fourth street.

RIVER FALLS, WIS.—The River Falls Floral Co. has purchased two acres of ground near its present plant and will put it into garden truck the coming season. The company is gradually enlarging its business to meet the demands upon it.

MILWAUKEE, WIS.—A premium list of $5,000 is expected to bring plant growers from all over the country to the flower show of the Florists' Club, to be held November 14 to 18. If it is possible to secure the Auditorium it will be held there as it is expected that upward of 100 outside growers will wish to make exhibits.



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All Heights, from 6 to 48 inches.

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SOLUBLE SULPHUR SUMMER SPRAY
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A FUNGICIDE AND INSECTICIDE
FOR FRUIT TREES, VEGETABLES and GREENHOUSES
A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.
Use **1** part to **75** or **100** parts of water.
B. G. PRATT CO., 50 Church St., New York, U. S. A.

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are easy to kill with
The Fumigating Kind
Tobacco Powder
$3.00 per bag 100 lbs.
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INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.
This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. **$1.50 per gallon. Also in quarts, half gallons and in bulk.**
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PULVERIZED SHEEP MANURE
Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
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Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE
Pure - Uniform - Reliable
A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE
Easy to Handle and Apply
Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

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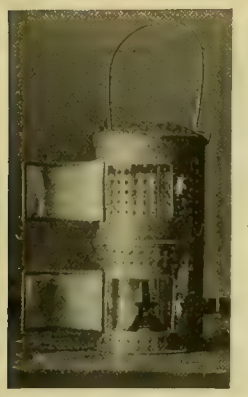

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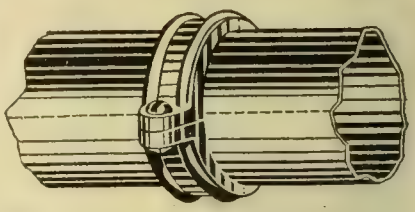
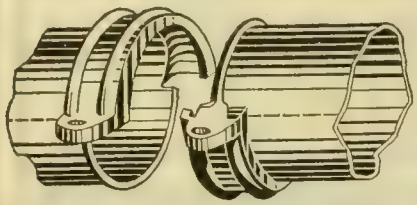
Stuttle's Patent Pipe Clamp



Especially adapted for joining old boiler tubes now so generally used in hot-water heating of greenhouses. Also it is invaluable for utilizing old cast-iron pipes which otherwise would be consigned to junk pile.

Easy to put on in any position and even more easily removed.
Cheap as the cheapest joint in use and 100 per cent superior.



HENRY STUTTLE,

Inventor and Patentee.

BATAVIA, - ILL.

PATENT APPLIED FOR.

Ideal Pipe Clamp

For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

WM. MOLL,
1664 Columbus Rd., CLEVELAND O

Nashville.

Trade has been passing through the usual Lenten dullness, hanging on only by funeral work and a few complimentary flowers. Stock has been good usually, and in great profusion. The up-town retailers have brightened their windows with jonquils which have been banked together until the windows were one glow of yellow. In a few more days the lilacs will be in bloom, but these being outdoor grown, and in profusion all over the country, cut but little figure with the trade. All the growers are now preparing to meet the Easter demand. The Joy Floral Co. is bringing in quantities of hydrangeas which are showing up finely. This firm will also have handsome Crimson Rambler roses, which always prove good sellers. These, with Easter lilies and all kinds of bulbous stock, will meet the demands of all customers. Geny Bros. will be strong on Easter lilies, having several hundred which will be in good shape by Easter morning. They have azaleas and bulbous stock in plenty and will be prepared to meet their usual large demand. As it is with plants, so it will be with cut flowers, roses, carnations, lilies and the cut hyacinths, narcissi, and tulips of every color.

A pleasant matrimonal event was the marriage of Miss Elizabeth Ophelia Schmidt, daughter of Arnold Schmidt, to William Edward Wilkerson, a young bank clerk. The residence was handsomely decorated with pot plants and palms for the wedding, which was an evening affair with pretty arrangements. The bride carried a bouquet of Bride roses and lily of the valley, made chatelaine style and her veil was caught with a spray of natural orange blossoms. The attendants carried pink roses. Two little flower bearers brought in the ring used in the ceremony buried in the heart of a rose. M. C. D.

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Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.
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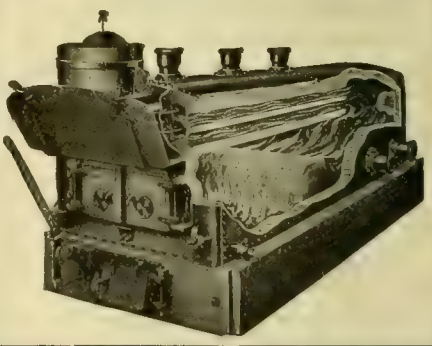
Has water in front, sides, top and a water back.

Made in 15 sizes, heating 6,000 to 50,000 square feet of glass to 60° at 15° below zero.

Prices and cata ogue on application.



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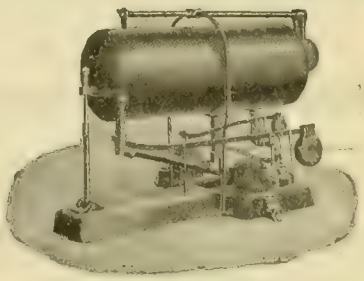

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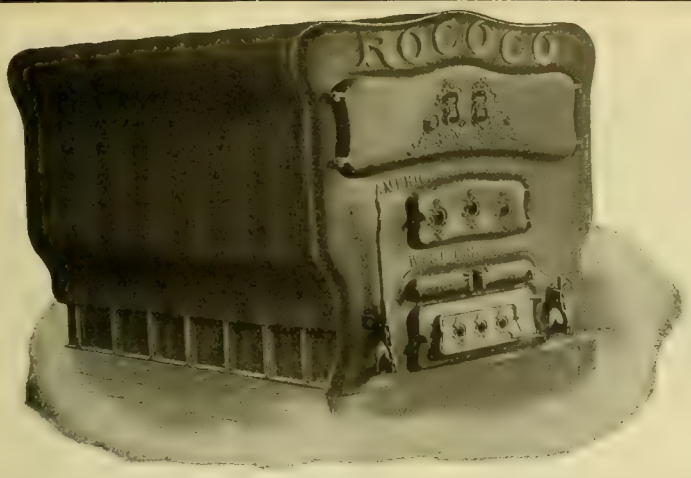
It takes 90 to 120 lbs of steam per horse power to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one-tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

Dept. A. F. **DETROIT, MICH.**



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Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use; shipped on skids ready for installation. Specially designed for greenhouse use.
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Hot Water Boilers
ARE THE MOST ECONOMICAL
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No Night Fireman Required with our
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Boilers, Tubes, Flues, Etc.,
at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter. be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.
Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.
1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler. 60 horse power. 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell. 5/8 heads: with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!
A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters.
Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes: 110 lbs. pressure.
4-72x18 Horizontal tubular boilers, 100 lbs. pressure.
4-72x16 Horizontal tubular boilers, 95 lbs. pressure.
2-66x16 Horizontal tubular boilers triple riveted, **Butt** strapped, 140 lbs. pressure.
8-60x16 Horizontal tubular boilers, 100 lbs. pressure.
2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

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Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent.
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CHICAGO HOUSE WRECKING CO., 35th and Iron Streets, CHICAGO.

Mention the American Florist when writing

HALIFAX, MASS.—A. C. Burrage entained members of the Boston Gardeners' Association here March 20.

CHARLESTOWN, MASS.—W. H. Winnett has opened a flower store at 8 Waverly block, City square.

The Wholesale and Retail Florists

both depend upon their refrigerators to determine whether their stock shall sell or stay in the store. McCray Refrigerators keep stock in such perfect, fresh and fragrant condition that it cannot help selling, and the McCray uses less ice than any other. It virtually pays for itself. The patented system of air circulation which cools all parts evenly, thoroughly, and with fresh, cold, dry air, is one of the features of

McCray Refrigerators

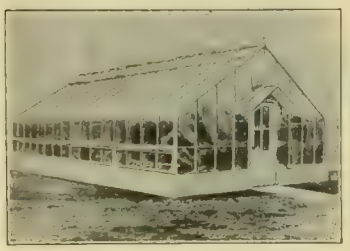
They are made in the most beautiful finish and substantial construction. They are lined with white enamel, or if you wish, you may have tile, opal glass, mirrors or marble.

There is a wide range of regular sizes of McCray Refrigerators for immediate shipment, although we build them to order for any requirement.

You should have our Catalog No. 71, which describes the detail of these successful and economical refrigerators for the florist.

McCray Refrigerator Company

760 Mill Street Kendallville, Indiana.



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Is absolutely Dripless, glass rests on Wood, reducing breakage and condensation, less wood than any other construction, wood all exposed—all steel inside, all wood outside.

Greenhouses of Every Type.

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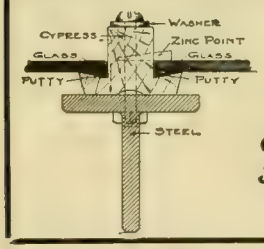

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Original Designs.

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Iron Reservoir Vases

AND

Lawn Settees

Manufactured by

McDONALD BROS.,

COLUMBUS, O.

The largest manufacturers of these goods in America. Send for catalogue.

NORWICH, CONN.—The foundation brickwork for a new greenhouse at the Washington street residence of Mrs. Wm. C. Lanman has been started and the cost will be about $2,000.

Reservoir Vases

For Cemeteries and Parks

THE BEST MADE

The reservoir supplies the plants with moisture by capillary attraction.

Not necessary to water plants oftener than once in ten days.

We make nearly 100 styles, ranging in price from $6.00 to $10.00 each.

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AN ALL-PINK EASTER BASKET.

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America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, APRIL 10, 1909. No. 1088

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.: Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

The Lily.

Flower of light! forget thy birth,
Daughter of the sordid earth,
  Lift the beauty of thine eye
  To the blue ethereal sky.
While thy graceful buds unfold
Silver petals starr'd with gold,
  Let the bee among thy bells,
  Rifle their ambrosial cells,
And the nimble-pinion'd air
Waft thy breath to heaven, like prayer;
  Cloud and sun alternate shed
  Gloom or glory round thy head;
Morn impearl thy leaves with dews;
Evening lend them rosy hues,
  Morn with snow-white splendor bless,
  Night with glow-worm jewels dress;
Thus fulfil thy Summer-day,
Spring, and flourish, and decay;
  Live a life of fragrance,—then
  Disappear—to rise again,
When thy sisters of the vale
Welcome back the nightingale.

JAMES MONTGOMERY.

SUGGESTIONS FOR PLANT GROWERS.

Begonia Gloire De Lorraine.

The young stock of this fine begonia and others of similar character should not be hurried at this time and considerable care is necessary that it is not overwatered. The roots as yet are weak and no great amount of growth is going on so water with care and, if the soil shows signs of souring or scaling over on the surface prick it up to allow the air to penetrate. Ventilate freely but avoid chilling draughts over the heads of the plants. It is the weak stock rushed along in heat and without air that succumbs to spot and kindred troubles. Solid plants grown slowly from the first are less liable.

Poinsettias.

It is early days to be thinking of poinsettias, but if the plants have been below stages or benches and are well dried off they may be, if room can be found for them, brought up to the light and placed on the bench. The stems will be harder and the cuttings finer than if they are left packed away until just as they are wanted for stock. Early propagation is absolutely necessary if fine plants, such as are seen around the stores at Christmas, are needed. Early rooted cuttings do not need to be rushed along in heat. They grow slowly and yet vigorously all through the summer and are so well rooted and strong that they will stand plenty of feeding late in the season, the result being fine, well colored bracts.

Left-Over Azaleas.

In the early part of the season, when azaleas are forced hard to get them on time, they are not of much value after the flowers are past but it is different with those that come along more naturally and flower at Easter. Any grower who retails his own stock is likely to have a few left over and they should not be thrown away. Let them make a good growth now and, later on, place them outdoors in a shady position where they will harden and perfect their buds for another year. Such plants, unless they have had all the young growths pulled out from between the flowers are fine for forcing another year owing to being well established when the heat is applied. And it is easy to ascertain whether they are any good or not by feeling the points of the shoots. If the flower buds are there they can be distinctly felt. If not, they are no good for forcing.

Celosia Pyramidalis.

Easily grown, showy and a first rate seller in moderate quantities the feathered celosia should be included in all collections of market plants. The room the plants take up is inconsiderable and they are growing at a time of the year when space under glass is not as valuable as early in the season. They are also out of the way before the benches are needed for winter stock and for these reasons may almost be termed a catch crop, though a profitable one. The seed should be sown at once in a gentle warmth and, as soon as germinated, the pans or flats must be brought into a good clear light to keep them dwarf and prevent drawing. When strong enough, prick the plants off at about an inch apart and, when they have thickened out a little, pot into the 2-inch size in a light compost. The treatment afterwards consists simply of growing the plants on gently in a light but not overheated house, repotting into 4-inch pots when they have filled the small ones with roots and letting them flower which they will do in late summer at a time when pot plants are on the scarce side. If larger plants or pans are needed they may be made up of several plants but the individuals attain a fine pyramidal habit that is very pleasing. If smaller plants are needed do not shift from the small pots; this forces the plants to flower earlier so seed for this purpose may be sown later. Crimson Ostrich Feather and Orange Ostrich Feather are good varieties in their respective colors. Spicata is a silvery pink form, dwarfer than the above, and there are several others.

Asparagus Plumosus.

This always popular plant is so easily grown from seed and the plants in the earlier stages take up so little room that more growers should raise their own seedlings. Fresh seed can now be obtained and it should be sown thinly at once in flats. It pays to dibble the seeds in at about one inch apart as the

young plants when they appear can then be left until they gain strength before being disturbed for potting. The first potting is the most dangerous part of the young plants' existence, but with ordinary care they may be lifted and placed in thumb pots placed in a moist house and will take no harm. Let them grow until a few inches high, then pinch the shoot which will make it thicken out at the base and probably other shoots will start when the plants may be given a shift into 2½ inch. Grow them right along in a house at about 60° at night, keep the atmosphere moist and give a thin shade. Always avoid over watering at all stages, this causing the fronds to lose color.

Double Primulas.

Of late there have been a few inquiries for the old double white primula and where there are plants of it it may be worth while propagating a few. Seeds may, of course, be procured, but there is no such thing as a pure double strain and plants have to be propagated by division. The old plants should be turned out of their pots and a little of the surface soil removed also any of the older leaves that may be in the way. They should then be planted out on a bench of very light sandy soil and the side growths cut partly through low down and pegged down to the soil. Here they will soon root if kept moist and may be taken up and potted separately. When there are only a few plants the old method of piling up sandy soil and chopped sphagnum moss around the base of the plant and cutting them in the same way may be practiced. There would not probably be a market for a great many plants but a few could be disposed of to particular customers each season at a fair profit.

Bedding Stock.

Not an inconsiderable part of the grower's profit, especially if he be located near a cemetery, comes from bedding plants of cheap and showy kinds and, as soon as the Easter stock is out of the way, these will need attention. Geraniums that have been standing close with the pots almost touching must be spread out and the shoots pinched for the last time. This will have the effect of hardening the growth, swelling out the stems and the new shoots that start from the pinching will be nicely in flower by bedding out time. Where there are still later cuttings in the benches these must be potted right away. These should have had the center pinched out already and, when potted and stood well apart, will soon make nice little plants in 3-inch pots though they will never come up to the earlier propagated stock. All the smaller stock such as lobelias, ageratums, alternantheras and alyssums should be kept on the move now. Never let the plants get hard and produce flowers. Keep any chance flowers that do appear picked off and by pinching to good wood and seeing to it that the roots are not starved, keep the plants in cultivation. As soon as the coleuses like Golden Bedder and Verschaffelti are well rooted pinch the points out and either pot or flat them, another batch of cuttings for late plants being put in. Small flats should be prepared and a dozen or two of such bedding annuals as asters, zinnias, stocks, dianthus and others be pricked off into them, giving the plants room to develop. This will be found far better policy than selling boxes crowded thickly with seedlings as such never give satisfaction to customers. Cannas must not be kept any longer in the semi-dark positions where they are wintered but be brought up to the light on the benches and started if not already done. The divisions may be somewhat thickly set out on the bench at first but later will need more room either by planting farther apart or by potting separately. Vincas, Cineraria maritima and all other stock for bedding, marguerites for window boxes and baskets and all this class of stock must be kept on the move. Once checked and allowed to flower, in small pots or crowded in flats, and that is an end of its usefulness as far as first class stock is concerned.

THE RETAIL TRADE

WITH each issue the popularity of our supplements increases and we have received many very flattering letters from retailers who find them most useful as guides to their patrons. When customers can be shown designs and know approximately what their purchases will look like when finished, much dissatisfaction afterwards is often prevented. The pictures should all be carefully preserved and kept in a folder near the sales counter or customers' desk.

Pretty Small Basket.

Hyacinths and Cyrtomium Falcatum.

Church Decoration.

The most prominent features of a church decoration for a wedding is the banking of palms and flowering plants on the pulpit platform or in and about the chancel, depending upon the architecture of the edifice. These should be arranged so that, if possible, the plants can be seen individually or at least the most perfect should stand out giving character to the work. The flowering plants should be clustered rather than spread over the whole group the effect being more striking. A generous fringe of wild smilax, should the platform be high, gives a nice finish. Tall floor vases filled with long stemmed roses, lilies or chrysanthemums relieve the somberness of the green when large flowering plants are not available. The pew ends along the middle aisle when decorated with clusters of flowers add very much to the effect. Torches of flowers on tall poles placed at intervals either side of the aisle so as not to interfere with the view are used for an elaborate display. Where there is a chancel railing clusters of cut flowers arranged here so as not to interfere with the view are always a feature. K.

A Wedding Decoration.

SEE SUPPLEMENT WITH THIS ISSUE.

Large wedding decorations do not, unfortunately, come very often to retailers, but there is something very attractive in work of this description. In a fine decoration, which was carried out at a Philadelphia church, the idea was to give the effect of an arbor clothed with climbing roses in full flower, and this was very finely carried out by the use of over 6,000 white and pink roses, mostly Bride and Bridesmaid, attached to laurel branches in a natural manner. The space thus covered with roses was about 12 feet high and some 75 feet in length, and the effect of the pink and white flowers in such rich profusion and yet in no way crowded or stiff, gave great satisfaction to the florist's patrons and elicited unstinted praise from all who saw the decoration.

The arch of the baptistry was treated with Easter lilies in small vases on rods while other trumpet or horn shaped vases filled with the same flowers were used below. White roses were placed at the pew ends, caught up with white ribbon, while low palms graced the edge of the platform in front of the baptistry. Although the picture, from a flashlight photograph, gives a very good idea of the general effect, it does not show the beautiful color scheme or the delicacy of the pink roses in the subdued light, which was unique in its way. In connection with church decoration it may be well to call the attention of workers to the need for extreme care in fixing their flowers so as not to injure the structure in any way. The flowers often have to be arranged in front of polished woodwork, yet so skillfully must the work be carried out that not a scratch is made. Stout tacks, driven in the upper side of the cornice rail, and the wreaths of laurel and flowers suspended from this, do away with the necessity of driving nails into the wood. This must be carefully kept in mind, for if once the fabric in these sacred buildings is in any way injured by a florist it is only reasonable to suppose that the incumbent of the church will forbid anything of a like nature being repeated.

Preparations for Easter at Chicago.

Easter, the great holiday for the florists, will not find Chicago retailers unprepared. With the memory of last year's excellent business to spur them on there is every probability that they will all endeavor to again break their own records and, if this is not possible, they will make a good showing and try to keep them up at any rate. There is a fine lot of cut stock on the market in almost every line and plants are in great shape and in good variety. The azaleas were probably never finer than at this time while bulbous stock, though possibly not as plentiful as on some other occasions, has been and is very good in quality. The double Jaffodils are excellent, while tulips, hyacinths and lily of the valley are all good in their respective ways.

Calling on Harry Rowe at the end of the week we found him busy preparing those elegant baskets of his which are always a feature in his displays. He has chosen his stock well as it is not

fully open or fully matured and will be the better for a day or two in the store. It was, of course, too early to see much of what he proposed doing but he is looking forward for an excellent trade and will be well equipped for it. The cut flowers are fine, sweet peas in all colors, Killarney and Richmond roses and other popular varieties being in first class order. Some fine rambler roses in variety too are quite a feature here. Further along Monroe street the Bohannon Floral Co. and John Mangel are both making excellent displays that should insure them a good share of the transient trade around the holiday.

At Fleischman's on Jackson boulevard we found a very fine show of plants and Geo. Wienhoeber will have, as usual, some surprises for the patrons of this store for Easter. We specially noted a very fine lot of azaleas in variety, large, healthy, well-flowered stock evidently grown in the clear air of the country and finely finished. A. Lange had his full force busy and his advertising methods are certainly bringing him in the business. His dollar boxes of flowers are still very popular and one or two of these in the window, resting on a groundwork of yellow daffodils thickly mossed was drawing a large crowd when we were there. Funeral and design work have been good here and Mr. Lange looks forward to a fine Easter business.

Wm. J. Smythe at Thirty-first street and Michigan avenue is preparing for a big trade. He has some very tasty and attractive wicker ware this season which is quite new in the west. On Saturday his Michigan avenue window was filled with this in gold and the north window had similar ware in copper color, the somewhat dull tint showing up the flowers and foliage plants to perfection. The stock here, both in cut flowers and plants, is, as usual, excellent and one is pretty safe in predicting a good holiday business. Only the exigences of time prevented us calling on other retailers who are making excellent showings but we hope to be able to treat the subject more fully when the great day arrives.

Small Baskets and Other Devices.

The various pretty little devices of Easter plants by a well known Chicago retailer, which are illustrated herewith, give a good idea as to how customers who do not wish to spend a large amount on their Easter plants, and yet have something pretty and artistic, may be satisfied. Bulbous stock is especially useful along this line, hyacinths, narcissi of sorts, lily of the valley and others lending a light graceful effect to the smaller devices which cannot be obtained from larger, heavier plants. The ever popular Primula obconica and P. Forbesi are also very useful in this connection and a number of small ferns, tradescantias, panicums and similar small trailers are necessary for variety. Tulips in themselves are a little stiff perhaps but their bright colors are very telling and, arranged with very light ferns such as maidenhairs and the lighter pterises they are of great assistance.

Only a very small number of the many designs made can be shown but the retailer with an artistic bent and anxious to please customers of taste can think out many pretty combinations. In some of the smaller birch bark receptacles the lily of the valley, arranged with its own foliage and the deep green of Cyrtomium falcatum is choice and telling, the grace of the lily bells being sufficient without any other small foliage though if preferred by the customer green panicum drooping over the edge is very pretty. With the stiffer flowers of the Dutch hyacinths the finely divided fronds of Adiantum cuneatum or even A. gracillimum is better than the larger, heavier fronds of the cyrtomium or even the pterises though the latter are excellent with narcissi. Flowers of Narcissus poeticus rising from the pretty heads of small Cyperus alternifolius have a beautiful appearance, telling yet chaste and the many combinations that may be worked out with small plants of foliage begonias, Pandanus Veitchi, dracænas and others are too well known to need recapitulation.

BASKET BY WM. J. SMYTHE, CHICAGO.

Primula Obconica, Hyacinths and Nephrolepis Whitmani.

Advertising That Talks.

More and more retailers are coming to see the advantage of judicious advertising and we present herewith some of the methods that A. Lange, of Madison street, Chicago, has made use of to draw attention to his wares. The lady in white in the window shown in the accompanying illustration is no lay figure but that very much alive lady Miss Phoebe Snow (White as Snow) who has done so much to make public the good points of the Lackawana railroad. Miss Snow was in Chicago recently and Mr. Lange was fortunate in being able to induce the "lady all in white" to pose in his window for the photographer with the very charming effect shown. He did not say what wiles or artifices he used but whatever they were they were successful.

In his advertising copy Mr. Lange is very careful to have something that talks, something to draw the attention and this, coupled with good value when the customers are secured, has enabled him to work up a very fine trade in cut flowers. His "Flowers and Their "Uses" ad. in the Tribune wherein are shown an old lady who has evidently been thought of by some distant friend and is enjoying the roses just brought in by "Lange's" messenger is good. The text below reads: "Perhaps the most appreciated of all times is in the sunset of life, when a single rose may recall sweet memories of a score of years or more. Flowers help to fill the declining years with that quiet joy—fruits of being loved and remembered." There is a personal appeal about this kind of advertising that goes straight to its mark and attains the desired end.

Well executed cuts of vases and baskets of flowers also with a suitable line of talk calling attention to the merits of the store and explaining the wishes of the proprietor to meet his patrons and give them full value are other good methods practised by Mr. Lange while the "air plant" forms the subject of still another; the plant being shown and its well known (to florists) selling points reiterated. These notes and illustrations must be taken as suggestive by retailers in other towns. Each will prepare his copy to suit his individual case but will in every instance endeavor to get away from the stereotyped card and "flowers of best quality" or "fresh flowers delivered daily" of the man who wastes money on advertising. Make every word tell. It is not easy at first to do it and it is simpler to grind out platitudes and use lines that every grocer or butcher writes up in his delivery wagon but this is not the kind of advertising that talks.

CALUMET, MICH.—W. J. Bloy, of Fifth street, has purchased the Lutey Floral Co.'s business here.

PHILADELPHIA, PA.—Fifteen flower venders who were arrested March 26, charged with being a nuisance, were each fined $5 and costs at the Central station the next day. Their arrest was in consequence of an order issued by Director Clay, in which he called attention to complaints having been made by Market street merchants that the venders had blocked their doorways and had in other ways made their presence objectionable.

ORCHID NOTES.

CATTLEYA WARNERI is known as the spring flowering labiata.

WATER Odontoglossum grande freely until the bulbs are completely filled out.

CATTLEYA GASKELLIANA flowers upon the newly formed growths or pseudobulbs, C. Mossiæ on those of last season.

To induce freedom of flowering keep Cattleya gigas, C. aurea, C. Hardyana and C. Dowiana as close to the light as possible except in freezing weather.

LET Calanthe Veitchi and C. vestita make a good root before watering at all freely. Overwatering in the early stages is a frequent cause of black rot.

Notes on Commercial Orchids.

SUMMER FLOWERING CATTLEYAS.

It is not uncommon to see all the six summer flowering cattleyas, namely: C. Mossiæ, C. Mendelii, C. Warneri, C. gigas, C. Harrisoniæ, and C. Gaskelliana, in bloom at the same time. Under cultivation they all appear to come in bloom in May and June, consequently, at this season, the flowers are plentiful and cheap. Yet it is quite possible for experienced growers to obtain blooms in rotation from the middle of March until August. The demand for a few weeks after midsummer is never very great, but those growers who are able to meet it are always well repaid for their trouble. It may be an art to bring cattleyas into flower ahead of the season or to keep them back for a few weeks, but, whatever it is the knowledge is rarely gained theoretically and often it is only recognized by accident. The only sure way is to watch the peculiar habits of the different species and varieties and this takes many years of observation.

Cattleya Mossiæ lends itself quite easily to culture for a few years after it has been received from its native haunts. It grows very freely when first imported and commonly makes two and three flowering bulbs from each lead in a season which rarely fail to produce flowers in great quantity, and it is possible to get many plants in bloom for Easter. Even if it does come early good prices are always realized. The difference in the prices obtained for the flowers at this time from that received for the later blooms is so great that it is well worth a little effort to accomplish. To have Cattleya Mossiæ in flower by the middle of March it is necessary to keep a winter temperature at night between 60° and 65° in a nice, airy house, but avoid a moist, stuffy atmosphere for this is sure death to the majority of cattleyas. Like the other species already described C. Mossiæ, after finishing it growth, needs a long rest and during the resting period does not require so much water at the roots, but when the buds are visible in the sheath, water may be given in abundance with advantage. Early in the fall this cattleya begins to root very freely from the base of the newly developed bulb, and this is a very good time to repot all plants that require it.

C. Mendelii comes into flower in succession to C. Mossiæ and succeeds well with the same treatment. C. Warneri is too expensive to get in quantity, but is a useful free bloomer, usually flowering in May. This differs very much in the time of growth from the above, as it generally commences to grow about Christmas and makes its bulbs quite rapidly, which, when developed, throw flowers in most cases right away. After they are cut the resting period for this species begins. When this cattleya is grown with success it pays well, even if it is more expensive to import, for the blooms are always good sellers, even if there is a glut of flowers of other species in the market. The resting season of this species is during the summer months; keep it fairly dry at the roots at this season, only giving sufficient water to prevent shriveling.

C. gigas is a shy bloomer with many growers; the varieties differ very much, so when buying be sure to get the plants from a reliable firm or the money will be as good as thrown away. The true C. gigas Sanderiana is the one to secure for spring flowering, while C. Hardyana type is better for later use. To flower these cattleyas it is essential to have an airy house such as is suitable for C. Mossiæ, but let the plants be kept at the cooler end for choice. Like C. Warneri, it starts to grow in winter, but must not be watered to any great extent till the new growth is two inches or more high. Then it requires plenty, at least two or three times a week. It grows very rapidly and must not receive any check through lack of water or other causes till the flowers are developed, then decrease the water supply gradually. After the blooms are cut new roots will start from the base of the last made bulb and then repotting must be attended to. Afterwards a daily syringing and an occasional watering is all the plants require for seven or eight months, as this species needs a decided rest to do it well. The flowers often bring double the price of those of C. Mossiæ and always sell well, the bright, rich color taking with buyers.

As a rule C. Gaskelliana is unsatisfactory with many growers; yet with care it is most profitable. To get this species to bloom in July and August it must be wintered in a shady house at a temperature of 55°. Like the two above, it begins its growth in winter but must not be hurried or it will be in full flower at the same time as the other summer cattleyas, which, for profit, must be avoided; hence the necessity of a little care. Many growers have great trouble with the flowers rotting in the sheath, which proves that the hot sun is a detriment. A little heavier shade and drier atmosphere will overcome this fault. Any one accustomed to cut this cattleya when in bloom will notice a quantity of water or liquid in the sheath. This liquid, if the sun shines on the sheath, gets hot, to the injury of the flowers. Like the two preceding cattleyas, this species often flowers directly its new bulbs are made, yet many plants will stand still as it were for a month or more before pushing up their blooms. This is no detriment, but a benefit, for it is the means of producing later flowers and, as a rule, such flowers are always of better quality, being slower coming to maturity.

C. Harrisoniæ is of quite a different habit to any of the former, the bulbs being thin and long, throwing five or six flowers from the new bulbs as soon as they are matured. No undue forcing is required, or the flowers will come early just when there is a glut, and at such times it is very hard to dispose of the flowers, as they are so much smaller than others in season. If judgment and care is bestowed on the plants they can easily be brought into flower at a time when other cattleyas are scarce, thereby proving very profitable and useful to the commercial grower. These long bulbed cattleyas as a rule deteriorate very fast if not watched carefully. Look out for the new roots that come from the base of the latest made bulbs of both this and C. Gaskelliana and repot if needed as soon as noticed, but do not saturate them continually after the flowering season as they, like other summer cattleyas, enjoy a long rest and must have it if their life is to be prolonged under cultivation. To grow all the above varieties in one house needs care, yet it is often done successfully.

W. DICHROS.

ATTRACTIVE ADVERTISING.

One of A. Lange's Recent Chicago Advertisements.

THE DAHLIA.

DAHLIA EXHIBITION.—We are in receipt of the schedule of prizes for the second annual exhibition of the New England Dahlia Society, to be held at Horticultural Hall, Boston, Mass., September 10-12. Copies of the premium list may be had on application to the New England Dahlia Society, 5 Union street, Boston, Mass.

The Cultivation of the Dahlia.

An ideal spot for the cultivation of the dahlia is one lying well to the south—if gently sloping all the better—where the soil is a well-drained, well-manured, heavy loam. If these latter conditions do not exist naturally, let them be artificially arranged for as nearly as possible, because nothing conduces more to the production of dwarf sturdy plants and large fine flowers than a strong loam, says Robt. Fife, Rothesay, Scotland, in the 1908 edition of the Memoirs of the Royal Caledonian Society. Shelter from high winds, and especially north or easterly gales, must be in existence or provided. An abundant water-supply, in the event of very dry weather, can hardly be too close at hand. Deep cultivation of the soil is advisable and, while good results are often obtained by spring digging, where possible the land should be prepared in autumn, and again thoroughly worked in spring. The requirements of the grower will, to some extent, decide the methods of manuring, but it may be here observed that over-manuring of dahlia land is not an everyday occurrence.

The beginner should procure his plants from a reliable establishment, where an up-to-date collection is kept, about the middle of April, or any time up till the first week in June—the earlier the better, if good results are to be expected. The plants should at once be placed in 3-inch pots and transferred to a gentle bottom heat for about two weeks. At the end of this period the plants should be placed in 5 or 6-inch pots, using a rich compost, and replaced for a week or two in moderate bottom heat, with abundance of air to keep the growth strong and short-jointed. Careful attention to watering, airing, and protection from frost will occupy the grower's mind until the first week in June, before which, it is not safe to plant out dahlias.

PLANTING.

Dahlias may be planted in the way most convenient to the grower, but a space of four feet between the plants—when set out in a block or line—is a fair average distance. Many successful cultivators plant much closer than this. Have the stakes in their places previous to planting, thus avoiding any chance of injury to the roots, while the plants, if well grown, will require support at once. As a rule it is advisable to manure the plants individually, rather than collectively, and by this method there is no waste of manure. Make a hole, 15 to 18 inches wide and 12 inches deep, close by each stake, and fill the same with a good rich prepared compost. Turn the plant out of the pot and plant amongst the compost on the side nearest the stake, press the soil firmly around the root, and tie the stem to the support. Frosty nights in June are not uncommon and a sharp lookout must be kept.

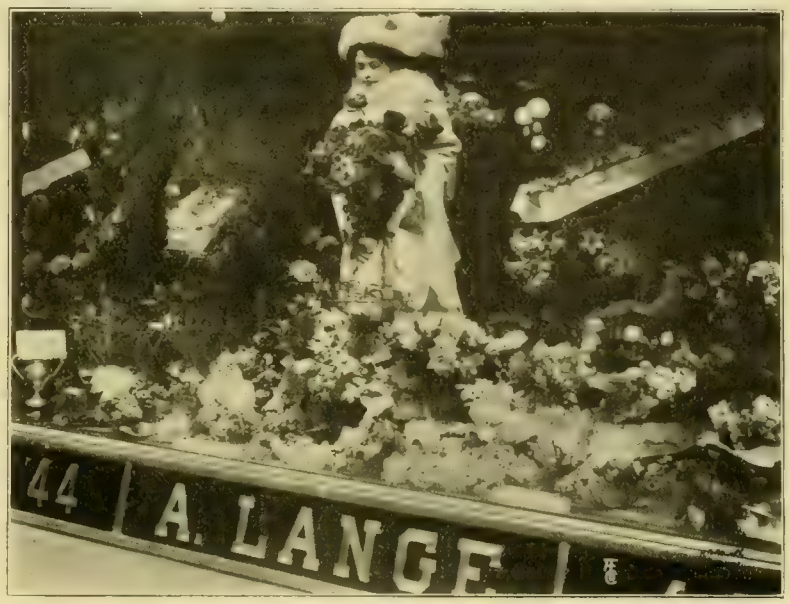
With the advent of warmer weather, slugs and insect pests may prove troublesome. Lettuce leaves scattered amongst the plants, or a few seeds of the same sown on the beds, will afford sufficient feeding for the slugs and great protection to the plants at the same time. Green fly and thrips may be kept under control by a judicious use of insecticides and frequent syringing with clean water; but no insecticides should be used when the plants are in flower, or the blooms may be spoiled. Earwigs often prove troublesome during the flowering period, but they may be trapped by placing small pots, containing a little paper or moss, on the top of the stakes or amongst the branches. The pots should be gone over daily, and the insects removed. A tuft of cotton-wool tied round the flower stem with fringe outwards is also a preventive.

THINNING AND TYING.

Early in July the plants will have made good growth, and constant attention should be given to thining, staking side shoots, and tying. Show and fancy dahlias are best trained to a center stem, with four of the strongest sides shoots left. Cactus dahlias may have more branches retained, but all depends on the size of the flowers required and the purpose for which the plants are grown. By judicious manipulation of the remaining shoots, flowers can at all times be had in readiness for exhibiting after the flowering period has set in. Those who wish to grow for garden decoration or cutting small flowers only, will stake and tie, but need not thin out or disbud freely. Pompons are all the finer when blooms are small and neat, and these should not be thinned out or very strongly grown. Singles of all sorts are mainly used for garden decoration, and on this account can hardly have too many shoots; but, if fine exhibition blooms are wanted, recourse may be had to moderate thinning or disbudding.

With the continued growth of the plants, and especially if for exhibition purposes, judicious feeding will be necessary. A heavy mulching of half-decayed stable manure will prove of immense value, and an occasional dressing with a good artificial manure considerably increase the size and texture of the flowers. Copious watering in dry weather must not be neglected. Rain, hail, and wind occasionally leave sad tales behind them, while earwings and small slugs may disfigure the more promising blooms; all this shows the necessity for unremitting care and attention. It is well to be prepared for emergencies, and to have at hand shading and protecting materials. Boxes, with glass tops, attached to a stake are most useful. Even a piece of flat board nailed to the top of a stake serves the purpose of protection. In all cases the flower stems should be secured to prevent movement and consequent rubbing.

From the middle of September onwards, no collection of dahlias is safe from frost, and unfortunately a glorious display of dahlias may have its career cut short. Granted that the inevitable has come to pass, and the plants stand as blackened weeds, choose a fine dry day, and, after cutting the stems a few inches above the roots, proceed to carefully lift the same, remove the soil as far as possible, and lay in the sun or in an open shed to dry. Labels must be securely fixed to the roots by wire or tarred twine. It is advisable to turn the stem downwards, to permit of the escape of any moisture likely to inaugurate a process of decay. When sufficiently dried, the roots may be removed to winter quarters—any place at once cool and dry, but free from frost. Some growers cover their roots with dry earth or sand—and this is a capital idea where the roots are more fibrous than tuberous but I have found that roots laid on a bench or staging without any covering material have given excellent results. The adoption of this method permits of an easy examination of the roots, and lessens the chances of loss. If perchance a root is threatened with decay, the defective portion must be removed, and the remainder dusted with lime. This attention may not only save the root, but prevent damage to others close by.



ATTRACTIVE ADVERTISING.

Miss Phoebe Snow (White as Snow) in the Window of A. Lange's Chicago Store.

PROPAGATION.

The middle of February will be quite early enough to take dahlia roots from their winter quarters, at which time the roots should be neatly trimmed and placed in boxes or on a warm bench in a glass house. The roots must be arranged crown upwards, and should be covered to two-thirds of their depth, the crown being left bare. In two or three weeks young growths will make their appearance, and these, if very strong and sappy, had better be thrown away as useless. Wiry growths about three inches in length make most suitable cuttings, and may be taken off with a heel if preferred. After careful dressing, and the removal of the lower leaves, the cuttings may be inserted in pots or boxes filled with somewhat sandy soil and placed on bottom heat of, say, 70°, where they will root in from 14 to 20 days. If only a few plants are required, the roots may be put to work somewhat later and broken up, retaining to each shoot a piece of the tuber. These roots may be potted up at once into 5 or 6-inch pots, but the plants from cuttings will, when rooted, take 2½-inch pots to begin with, shifting into larger sizes as required.

Such is a brief outline of dahlia culture, which I hope may be of some interest. Growers differ in their methods to attain the same ends, and some good may be found in every system. The dahlia has attained to a great eminence in the horticultural world, from which it cannot easily be dislodged, and my impression is that we are on the threshold of another great movement or break which will have a far-reaching course. The present classes are nearing their limit of perfection, and may in the near future have, like the stage carnation, primula, cineraria, begonia, and the superb rose, to give place to scalloped or frilled edges, more plentiful if not so perfect flowers, or some other undeveloped property quite apart from the ideals and aims of the good old florists of the years gone by.

Trouble With Gladioli.

ED. AMERICAN FLORIST:—

We have several thousand gladioli corms under a carnation bench. Between the sheath and the corm they are covered with green fly. We have used tobacco dust and slug shot dusted on them, also put them in boxes and covered them up, and smoked with nicofume; but with no effect. Now we are removing the sheath. Is there any better way of remedying the trouble? Would they be so affected if they were in a cool dry temperature? E. L. N.

It is not often that green fly is so persistent on dry or partially dry bulbs or corms. Probably "E. L. N." has done the best thing possible in removing the sheaths, provided only the loose ones have been taken and the corms are not skinned. Plunge them in a tank or tub and shake them well up. Leave them for a couple of hours and then remove them and place them thinly on a sunny bench to dry. This should finish the green fly without in any way injuring the corms as it is so near planting time.

TORONTO, ONT.—H. G. Dillemuth has opened a branch store at 123 King street west that is quite above the average of retail stores. He has gone heavily into mirrors and other first class fixtures and his electric lighting is on a very elaborate scale. He reports a success from the start and a large amount of transient trade from adjacent hotels and theaters.

FLORISTS' FERNS.

Fern Propagation.

The multiplication of ferns requires such scrupulous and minute care that it has remained largely in the hands of specialists who cultivate the fern of the markets; most gardeners and amateurs content themselves with buying the plants, and try less and less to propagate them themselves. For this reason the knowledge of the mechanism of reproduction of ferns seems to be gradually dying out, which is a pity, for it is a process especially full of interest.

Fig 1—Rhipidopteris Peltata.
Showing Sterile and Fertile Fronds.

We will describe first the process of the natural reproduction of ferns, with the aid of the engravings from A. Buysen's excellent little book, "La Culture des Fougères Exotiques." This process consists of three distinct and successive phases: Fructification in the adult plant; germination, which produces an intermediate form; and the fecundation, which produces the young plant. The brown spots of differing ferns that we find on the under side of the fronds of ferns are masses of fructification, which are called sori, and which are sometimes encased in an envelope called an indusium. In some cases the sori are borne upon fronds of entirely different form from the typical fronds of the plant. In Rhipidopteris peltata, the fertile fronds are entire (Fig. 1); in other varieties (osmunda, aneimia, lygodium, etc.), they are divided in the extreme, to the point that their character is almost entirely lost, and the sori appear to be carried directly on the veinings. Each sorus is a group of sporangia, or spore-cases, which contain the spores, or sexless reproductive cells of the plant. When these spores are ripe, the wall of the sporangium breaks, often bursts like a balsam fruit, as the result of the contraction of a ring which encircles about two-thirds of their circumference. The spores thus escape and, if they fall into favorable surroundings, germinate.

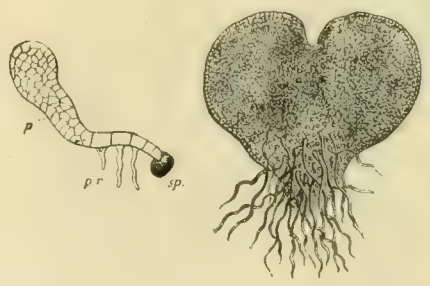


Fig. 2.—Prothallia, Young and Developed

The spore, when it begins to germinate, gives birth to a cellular production, called the prothallium, green in color, at first formless, but finally becoming, in most cases, rounded or oval, hardened at the extremity. (Fig. 2.) The prothallium is the intermediary form of the plant in which fecundation takes place, and from a botanical point of view is the most important state of the plant, although the phenomena which take place can only be observed with the microscope. The prothallia are seldom more than one-tenth of an inch in length, and lie upon the moist soil, to which they attach themselves by false roots or radical hairs. The prothallium bears on its under side the antheridia and archegonia, male and female organs. It is able, especially at its edges, to ramify and multiply itself by the separation of its branchings. After fertilization the germ-cell of the archegonium develops into a frond-bearing plant.

The antheridium contains minute corpuscles, rolled in spiral form, which are called antherozoids (Fig. 3), and which are provided with tiny vibratile hairs which serve as oars, when, being discharged from the ripe antheridium, they sail with great rapidity upon a droplet of water in search of the archegonium. It is these antherozoids which take the place of the pollen of flowering plants. The archegonium (Fig. 4) assumes the role of ovary and contains the oösphere, which, after fecundation by the antherozoid, becomes the oöspore from which terminates the true fern plant (Fig. 5).

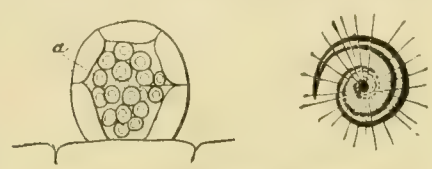


Fig. 3—Cup Containing Antherozoids.
Antherozoid on Right.

Such is the mechanism of reproduction in the great majority of ferns. Some again are viviparous, that is, they produce young plants on certain parts of the fronds themselves. A great number, not to say nearly all ferns, are also multiplied by division. The multiplication by spores being well understood, the discovery of M. Chifflot, of the faculty of sciences at Lyons, that by cuttings of the prothallium, the rate of increase may be greatly augmented, is of the greatest interest. We quote the conclusion of his essay: "It is generally admitted that the prothallium usually produces but one plantlet. This is true if the plantlet is left in place, but in-

exact if it is delicately removed and repotted, which may be done if it has attained a certain strength. The removal of the plantlet stimulates in the prothallium the germination of another oösphere and consequently of another plantlet, this process being repeated four to six times, at least. It is possible even, the prothallium having attained its largest size, to cut it into five or six pieces, placing them face downward on moist sphagnum, and obtain from each piece a perfect plant. This cutting of the prothallium, which has seemed extraordinary to many growers, is easily explicable. The antheridia generally number 30 or 40, and produce a great number of antherozoids to certainly insure the fecundation of all the archegonia, of which the number is much smaller. The oldest cell germinates first and produces a plantlet; if this plantlet is allowed to evolve in place, it absorbs as nourishment the prothallium and its contents, including the younger oöspheres; if, on the contrary, the plant is removed, a second germ develops and produces a second plantlet, etc." With a degree of skill, patience and a good magnifying glass, the experimenter will find much in this field to interest him.—Revue Horticole.

Notes in Season.

Many growers still prefer to sow their own fern spores and thus to follow the stock through all stages of growth, while others buy the stock in flats ready for potting off, from one of the large dealers, and thus avoid the tedious work of the earlier operations of fern growing. These flats of fern seedlings are usually from a late fall or early winter sowing, the young plants having been pricked out into shallow flats just as soon as they were large enough to handle, and are then allowed to remain in these flats until large enough to be potted off. There is, however, much to interest the grower in raising ferns from spores, and while these operations have many times been described in these columns yet a brief reference to them may still be in order at this season.

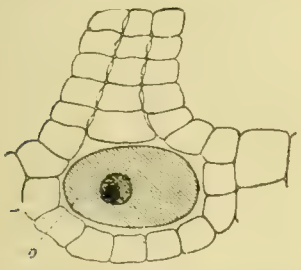


Fig. 4—Archegonium With Its Oospore.

Pots or pans six inches in diameter is the size usually used for fern spores, and these should be perfectly clean, as any fungoid growth on the pots or in the soil is likely to cause trouble. These pots are filled to within 1½ inches of the top with either cinders or potsherds, and then fine light soil pressed down firmly and made smooth on the surface, the latter being a little below the edge of the pot, so that it may be covered over with a pane of glass. A soil composed of equal parts of loam and peat, without manure, and sifted through a fine sieve, is that most favored for this purpose, and if this has been sterilized by baking over a fire for a short time before being used there will be less trouble from weeds and insects. The pots should be thoroughly watered, giving sufficient to moisten the soil all through, after which they should be allowed to drain for an hour or two before sowing the spores.

Fig. 5—Young Fern Plantlet Growing From Prothallium.

The spores are sown thinly on the surface of the soil, the sowing being done in a place that is free from drafts, else many of the spores may be wasted. Then place the seed pots in a sash-covered frame in the greenhouse, and cover the pots with panes of glass, the idea being to protect them from sunshine and also from drying out until the spores germinate. In fact, the tender young growths that first appear, somewhat like a green fungoid growth on the surface of the soil, should never be exposed to full sunshine, nor should they be allowed to become very dry. In case it should be necessary to water the seed pots, the best plan is to dip the pot in a pail of water, to avoid any watering of the surface at this time. A night temperature of 60°-65° is best for the spores, and a few degrees warmer in the day will do no harm. When the seedlings are large enough to handle, that is, about the time the first frond appears, they are transferred in small blocks to other pans or flats in which they remain until enough growth has been made to enable one to pot them, these early operations in fern growing being a matter of rather careful and tedious work.

The time required for the raising of ferns from spores to a size large enough for potting off into 2-inch or 2½-inch pots varies with the species and also with the season, spores that are sown in the autumn taking more time to develop than those of the same species sown in the spring, but some of the quick-growing pterises will be ready to pot in six months from the time of sowing, while others may take from eight to ten months to reach the same stage of development.

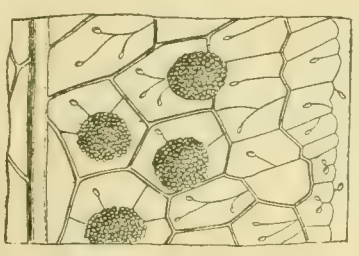


Fig. 6—Magnified Sori of Polypodium Aureum.

In the handling of small ferns one of the rules is to give plenty of fresh air, but to avoid drafts, and another is to gradually inure them to sunshine until they can stand full exposure, thus producing those short-fronded, sturdy little plants that give such good results in a table fernery. Insects seldom give much trouble with small ferns, unless it be in the form of an attack of thrips, and this may be controlled by careful fumigation with one of the nicotine preparations, or in severe cases by spraying with nicotine solution, using one part of nicofume to 300 parts of water. Snails create havoc in the fern house, but these may either be trapped or poisoned with Paris green and sugar or corn meal.

W. H. TAPLIN.

Cement Bench Construction.

This topic is becoming more important each year owing to the increased price of lumber, and the fact that in a few years it decays and has to be renewed, which is not only a source of annoyance to the grower, but also a large item of expense. A properly constructed cement bench will last as long, and even longer, than the greenhouse itself. It is conceded, without exception, by those growers who have grown stock on both benches that they do not see any difference between the stock grown on cement benches and that grown on wooden benches. It has been tried with all classes of stock. Robt. Simpson, Clifton, N. J., is growing roses on cement benches and says there is no difference in the stock grown on cement benches and that grown on wooden benches, under the same conditions. This is true with carnations, bedding and bulbous stock, and decorative stock.

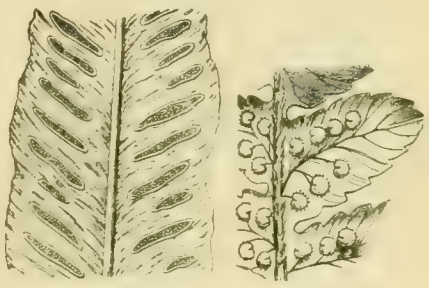


Fig. 7.—Sori of Scolopendrium Officinarum on Left. Sori of Aspidium, With Indusia on Right.

One of the most practical benches consists of one piece construction. In other words the sides, bottom and posts are as one continuous piece of cement. Briefly, this construction is as follows: Temporary posts, 2x4, are driven in the ground within five inches of the height of the bench. These posts are in two rows, each post in the row four feet apart and each row four feet apart.

On the top of these posts are run 2x4 stringers, standing on edge. On these stringers are placed cross boards, 1x6, and cut six inches longer than the desired width of the bench. Every eighth and ninth board from the end has a half circle cut out so that when the edges of the two boards are placed together a round hole five inches in diameter

will be formed. There should be two rows of these holes, each hole four feet apart and each row four feet apart.

Under these holes the soil should be removed, digging a hole about eight inches in diameter and four inches deep, filling same with wet cement. Into this wet cement the cement posts should be imbedded, so that the top of each post comes flush with the cross boards, or flooring. It is easier to distribute these cement posts and to imbed them in the wet cement as the flooring is being constructed. On the cross flooring of 6-inch boards a clamp should be nailed or screwed, spaced four feet apart on each side. Against these clamps a side board, seven inches wide, should stand on edge.

When the outer boards are placed wire netting should be run the entire length of the bench, and so turned up as to come flush with the top of the side boards. After the wire netting is placed another board, six inches wide, should be placed in the inner part of the clamp. After this is done the cement is ready to be poured. When the cement is poured this will give one inch of cement on the sides and one inch of cement on the bottom, and this wet cement will thoroughly unite with the top of the cement posts already placed.

Drainage slots are made from a shell of iron sheeting, six inches long, one inch wide at top, and one and a half inch at bottom, and containing two grooves into which the wire netting can be fitted. This method of drainage is preferred by some while others prefer the round holes made after the cement has partially hardened by the use of the drainage tool. These holes can be spaced as near or far apart as the requirements of the soil or conditions may require.

After the cement is thoroughly hardened the 6-inch inner board can be removed, the inner part of the clamp be taken, the temporary posts removed, and the stringers and flooring will then drop, and the lumber can be used for the construction of other benches. The complete bench is simply one continuous piece of cement, with one-inch side board and one inch of cement flooring, supported by 5-inch posts. There are no other supports or obstructions except these posts. Such a bench, using the Wittbold clamps, can be constructed at a cost for material of 2¼-cents per square foot.

C. M. DICKINSON.

Begonia President Taft.

Begonia President Taft, which originated with J. A. Peterson, Cincinnati, O., as a sport from B. Agatha is much stronger than either the latter or B. Gloire de Lorraine. It is a free and continuous bloomer from November to April, each flower being as large as a silver dollar. It has been somewhat freely exhibited the past season and among other awards, received a bronze medal at the National Flower Show at Chicago and a certificate of merit from the Pittsburg and Allegheny Florists' and Gardeners' Club, Newport Horticultural Society and the New York Florists' Club.

Growth of the German Potash Industry.

Consul-General Richard Guenther writes from Frankfort that the potash production of Germany at present represents about 750,000,000 marks ($178,500,000) of capital and employs 28,000 miners and work people. The yearly sales of potash are $24,000,000, the trade being controlled by a trust. In 1908 this combine added nine new mining companies to its membership, while this year 13 new works will go into operation, and also controlled by the potash trust. Germany alone consumes for soil fertilization nearly half the potash salts annually produced. There has been much speculation among German investors in shares of potash production companies.

To Be Done Now.

IN THE GREENHOUSES.

Any old leggy dracænas may be cut up into lengths of stem with about two eyes and used for propagating. Strike the tops in the bench or in bottles of water.

Allow tuberoses time to get well established if possible before introducing them to heat for forcing.

Take special care of the young rose stock and never allow it to get hard in the 2-inch pots. Repot and keep the plants growing freely or good results must not be looked for.

Propagate stevia by cuttings on the bench and as soon as well rooted pot

Begonia President Taft.

As Grown by J. A. Peterson, Cincinnati, O.

the plants or place them in flats in a cool house.

Sow in quantity asters, sweet sultan, zinnias, scabious and other annuals for cutting. A night temperature of 55° is ample.

Throw away the old, hard center portions of the violet plants. The young vigorous shoots or runners only must be used for propagating.

Where there is a choice use the heavier soil for own-root American Beauty roses and the lighter for grafted stock.

Gardenias will take more moisture. See that the lower part of the soil on the benches is moist as well as the surface.

Throw out all plants of sweet peas, marguerites and similar stock that has ceased to be profitable directly the Easter demand is over.

Make up plenty of small fern dishes and dishes with ferns and bulb stock so they get well established for Easter sales. They look more natural after a few days growth than when made up and sold at once.

Watch the cattleyas now in houses where the sun strikes early. The leaves are easily scorched during bright bursts of sunshine. Feel the leaves and when they are warm to the touch of a person who has been in the house a few minutes it is time to lower the shades.

OUTDOORS.

The everlasting pea, Lathyrus latifolius, and its white variety, may now be sown or planted. It is a fine subject for cutting and for planting against veranda or pergola supports.

Place a little loose litter around rhubarb crowns. The slight protection given will insure good stalks at least a week earlier than from crowns totally unprotected.

Sow sweet peas in variety on good well prepared soil. Where mice are troublesome soak the seeds in coal oil and dust a little red lead over them.

Push on with the shrub pruning, siding up the shrub borders and lifting and rearranging any portions that were borne down by snow in winter.

Where lilacs are top-heavy remove some of the older branches. If the flowers are needed for cutting they may be left to open but it is better for the shrubs to remove them now.

Thin out the growths a little on spireas where they have become crowded, but cut from the bottom; don't use the shears.

Plant mint and other herbs; the plot devoted to herbs of various kinds is often the most profitable in the garden.

Many of the native species of roses may be used with good effect on sunny banks where grass does not flourish. They are perfectly hardy and, if given a little care, very beautiful the year around.

Prepare a good supply of manure for the celery plot. Green fresh manure is not as satisfactory for this crop as that which has been standing some time and got mellow.

Plant out hardy lilies in good soil. Where this is very heavy use a little sand or road grit under the bulbs.

Partly head back any trees that have to be regrafted to save time later and finish all arrears of winter cleaning.

Flower Shows.

Detroit laments the passing of the flower show. It seems once to have been an institution in that city, but has been allowed to fade and wither. The flower show is too good a thing to let languish. The Detroit Free Press, commenting on this subject, says:

"No feature of Detroit life had greater charm than this flower exhibition during the years of its vogue. The preliminary labor necessary to give it success earned rich rewards, and it never seemed to lose its features of interest and novelty. Does anything in which flowers figure ever lose its interest and novelty? The profits of the exhibition were devoted to charity, and for a week or 10 days representatives of various philanthropic and religious organizations were brought in close contact, the results of this contact being the promotion of acquaintance and dissipation of antagonisms that were beneficial and helpful."

This serves to call attention to one of the features of life in Washington. The capital has floral riches. The blossoming season is long. Not many weeks intervene between the blight of the autumn flowers and the up-coming of spring buds and blooms. Nearly every park and reservation triangle in Washington is a public flower show. Many of the parks, notably the Capitol grounds, the Botanic garden, the Agricultural grounds, Franklin park and Lafayette square, exhibit floral beauty, rare shrubbery and a remarkable variety of native and exotic trees. In winter Washington cheers the eye with many winter gardens bright with evergreens.

Then, there are the numerous government greenhouses, with their brilliant exhibitions of plant life. In this connection there are two more features that ought not to be overlooked, namely, the school gardens and the attractive window displays which it is the custom of Washington florists to make.—Washington Star.

OBITUARY.

William Freytag.

Wm. Freytag, a well known florist of Milwaukee, Wis., aged 43 years, committed suicide by inhaling gas April 7. Mr. Freytag was despondent on account of ill health. He leaves a wife and son. The funeral will take place Saturday, April 10, at 2 p. m., from his late residence, 793 Twelfth avenue.

H.

Henry Eberhardt.

Henry Eberhardt, a well known retailer of Catonsville, Baltimore, Md., died, March 28, at the home of his son, August E. Eberhardt, in Baltimore, after a long illness. Mr. Eberhardt was born in Germany, and came to this country when young. For the last 10 years he had conducted a business on Beaumont avenue with his son, Peter. Mr. Eberhardt's wife died several years ago. He is survived by two sons and one daughter.

Charles Read.

Charles Read, for nearly a half century one of the most prominent business men of Orange, N. J., died at his home, 20 Chapel street, of Bright's disease March 30, after a short illness. Born at Brighton, Eng., in 1822, Mr. Read came to this country in 1860 and established himself during that year in Orange as a florist. He leaves a widow, three sons, former Alderman Charles Read, of Orange; W. W. Read, of Coscob, Conn., and Herbert Spencer Read, of Chesterfield, Mass., and one daughter, Mrs. William Dickerson, of Philadelphia.

William Hagemann.

William Hagemann, the well known horticultural importer, died suddenly at his residence in Bloomfield, N. J., April 3. Mr. Hagemann was at his office as usual on Thursday and on that afternoon suffered an apoplectic attack. He was taken home, but did not rally and passed away on Saturday. He had suffered from two former attacks of this nature. Mr. Hagemann, before his activity in the horticultural trade, was in the grocery line in Philadelphia and when there started his trade activity with florists and seedsmen, later moving his business to New York. He was at different times active in the export trade in other lines having shipped to Europe apples, bicycles, horses and other goods. Mr. Hagemann was very popular with the trade, frank and outspoken; always an entertaining conversationalist, he made close friends even among his strongest competitors. He was 51 years of age. He will be greatly missed by the trade in this country as well as in many cities in Europe. He leaves a wife and three daughters, married. The funeral occurred Wednesday afternoon in Bloomfield, many of the New York trade being present.

J. B. Boland.

We are sorry to have to record the death of J. B. Boland, the well known owner of the J. B. Boland Floral Co., San Francisco, Calif. Mr. Boland had been suffering for quite a while and his death was not entirely unexpected. Through Mr. Boland's death another of the old time florists has been removed, to the regret of every one connected with the trade as well as by the many friends he had amongst the business men of San Francisco. Before the earthquake Mr. Boland was partner in the firm of Sievers & Boland. They were burned out during the conflagration and dissolved partnership after that. Mr. Boland was one of the first florists to open up a store in the burned district at 47 Geary street. Here misfortune followed him again, as a fire in the temporary structure in which his store was located, destroyed his entire stock of goods and fixtures. Soon after he moved into his store on Kearny street which he occupied at the time he was taken sick. He leaves a widow who has the sincere sympathy of his numerous friends and acquaintances.

P.

The Late Edward Gill.

The late Edward Gill, whose death was chronicled in our obituary column in the issue of April 3, was one of the best known nurserymen on the Pacific coast. When the end came Mr. Gill was surrounded by his four children, John; Dr. Edward C.; Isabel and Elizabeth Gill, his wife having died in November, 1907. The funeral was held March 27, interment being in the Mountain View cemetery. Mr. Gill first came to California in 1863; after a short stay he returned to the east and, in 1867, married Mary Belle Brown. He then returned to California and settled in Oakland, where he built up a large nursery business; finding his place too small for his rapidly increasing trade in 1890, he purchased a tract of 106 acres in West Berkeley, six miles further out, to which place he removed. At his new place he made a specialty of field grown roses for the wholesale trade in which he did a large business.

BERTERMANN BROS.' (INDIANAPOLIS) DELIVERY AUTOMOBILE.

As It Appeared in the Recent Automobile Show at Indianapolis.

Bedding Plants in the South.

ED. AMERICAN FLORIST:—

We have several large urns, six feet high and about 2½ feet across at top, to fill; the customer prefers red flowers. What would you advise planting in them to stand the hot southern summers? What would you plant besides vinca at the edges to hang down? The urns are in sunny positions.

Kentucky. FLORIST.

In red flowers the salvias, Bonfire, Zurich and others would make a very fine show and stand the sun well. Some of the red varieties of geraniums are good, of course, while achyranthes are desirable showy subjects standing well. Amaranthus caudatus and A. pyramidalis are good while coleuses in variety are showy foliage subjects. There are few vines to beat the vincas for such positions though, if the position is not too exposed, Tradescantia zebrina is good. Whatever is used constant watering and judicious feeding are necessary as vases and urns soon dry out.

G.

Packing Southern Daffodils.

ED. AMERICAN FLORIST:—

Please tell me in an early issue all about the packing of daffodil flowers for shipment; when the season for southern daffodils should begin and what sorts are most profitable as cut flowers; best size of boxes and number of blooms to pack in bunches and to each box: how to wrap stems and dispose flower clusters so as to keep them fresh and unbruised. Can strawboard or pasteboard boxes be used, etc. Also please give the name of some dealers in cut daffodil flowers and bulbs.

G.

Cut flowers, such as spikes of gladioli and tuberoses are shipped from the bulb farms in eastern North Carolina in light boxes with an ice space in the middle. The earlier daffodils do not need ice, but can be packed by wrapping the stems in newspapers, well wetted, and then with paraffine paper, leaving the flowers open and dry, for any moisture on the blooms will damage them. Packed in boxes that can be had in flats and folded as needed of heavy strawboard, they will go well. I am sorry that absence in Florida prevented an earlier reply, as probably even in the elevated section at Old Fort, N. C., the bloom of the narcissus is now past. The flowers can be shipped to any of the wholesale firms advertising in the AMERICAN FLORIST. The North Carolina growers ship generally to E. Read of Philadelphia. For later flowers light wooden veneer boxes are used as ice is then needed. The season varies. Daffodils bloomed in southern Maryland this year in February and March.

M.

Fertilizing Value of Snow.

A correspondent of the Gardeners' Chronicle has been drawing conclusions as to the relative fertilizing value of snow, rain and dew and hoar frost. The nitrogen content of snow was taken from records of experiments carried out at the Canadian Experiment Farm at Ottawa, the rain and dew and hoar frost tests were made at Harpenden in England. In the latter 69 samples of rain showed a nitrogen content 1½ times as rich as the Canadian snow while the dew and hoar frost was 5¾ times as rich. This goes to prove, says the experimenter, that the value of snow as a fertilizer has been greatly over estimated by agriculturists.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York.

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,

324 Dearborn St., CHICAGO

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THE Bermuda steamer Prince George arrived at New York April 5 with a large consignment of lily blooms.

MANAGERS of retail stores have many ingenious advertising schemes for Easter and we are always pleased to have details, with copies of booklets, circulars and other advertising matter used locally.

WE shall be pleased to have reports of the Easter business from all readers and retail florists should send photographs of good special work—designs, baskets, decorations, etc., arranged for this occasion.

GALLANT little Wales, it appears, is making strenuous efforts to substitute the daffodil for the odoriferous leek as its national emblem.

BRIGHT mornings and cold nights are conditions to be expected now. The fireman has to be very careful, especially where hot water is used, or much fuel will be wasted.

SHELF brackets, made to attach to the upright greenhouse supports are useful at this season to hold shelves for small bedding and other stock and save room on the benches.

TARIFF troubles are confronting Frenchmen and the legislators are inclined to increase the duties on horticultural products. The horticulturists are said not to favor increased duties on these lines.

A LEADING greenhouse builder is on record as in favor of free lumber. He says the price of white pine is almost prohibitive and that cypress is unsatisfactory. "Therefore," he claims, "we should have free Norway pine."

GROWERS sometimes aim to save coal by closing their houses early and allowing them to run up from sun heat. There may be days when something may be done in this way, but it is easy to go wrong and a little heat should always be kept on the pipes now, no matter how bright the day.

THE proceedings of the eighteenth annual meeting of the American Carnation Society held at Indianapolis, Ind., has been published. It is a book of 108 pages, fully describing the convention and containing much other matter of interest to the members and carnation growers generally.

A CLAUSE has now been inserted in the new tariff law making evergreen seedlings duty free. This covers, according to a recent ruling of the board of general appraisers, any plant that has been originally raised from seed and retains its leaves all the year around whether grown indoors or outdoors.

SUPPLEMENTING the continued growth in the demand for hardy herbaceous perennials there has come to the specialists in this line within the last year or two considerable inquiry for hardy ferns, and this is a most commendable departure. Among our native ferns are many strikingly handsome plants which thrive luxuriantly in shade and moisture where no other plants will live and fern growers in Europe are very enthusiastic about many of these plants which we have so long neglected.

THE ninth annual report of the Home Gardening Association of Cleveland, O., shows the good work of this institution in creating a love of gardening among all classes and helping along the idea of making our cities more beautiful by judicious planting of trees, shrubs and other plants. School gardens, home gardens and the work at the detention school are all well illustrated and several instances of good citizens having been turned out from very unpromising material at the latter are given.

A Partnership Business in Greenhouse.

ED. AMERICAN FLORIST:—

There are three parties intending to form a partnership, one to furnish the ground, the other two to invest the capital for the houses, one party be the florist and handle the business. What would be the proper way to share the profits? J. S.

American Carnation Society.

NOTICE TO MEMBERS.

Please take notice that all of the papers, etc., pertaining to the secretary's office have been forwarded to our new secretary, A. F. J. Baur, Thirty-eighth street and Senate avenue, Indianapolis, Ind. Dues, registrations and all other matters pertaining to this office should now be addressed to Mr. Baur.

Respectfully yours,

ALBERT M. HERR.

Lancaster, Pa.

National Council of Horticulture.

The third installment of the press service of the National Council of Horticulture contains timely articles on "The Wish Bone Flower" (Torenia), "Spring Pruning," "Four O'clock or Marvel of Peru" and "Preparing Soil For a Garden." Any one who wishes to reach the amateur gardener either as customer or reader, should obtain these useful articles which are free on application to J. H. Burdett, 1720 W. One Hundred and Fourth place, Chicago.

Society of American Florists.

REGISTRATION OF BEGONIA.

Public notice is hereby given that J. A. Peterson, of Westwood, Cincinnati, O., offers for registration the plant described below. Any person objecting to the registration of this plant or to the use of the proposed name is requested to communicate with the undersigned at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Begonia President Taft.—Description, a sport from B. Agatha; it originated in our greenhouse about two years ago. In growth it is much stronger and sturdier than Agatha or Gloire de Lorraine, to which class it belongs. In color a beautiful shade of soft rosy-pink, deeper and richer than Agatha or Gloire de Lorraine. The flowers more than cover a silver dollar. It is a free and continuous bloomer from November to April. Height about 15 to 18 inches. Foliage large, shining, dark green.

April 2, 1909. W. N. RUDD, Sec'y.

The American Civic Association.

"A More Beautiful America" is the motto of the American Civic Association, an association that is becoming more widely known and whose long continued work is being recognized by congress, by the American public and by foreign associations and sympathetic people abroad. Its press sheets are widely distributed and used and, on the principle of the constant dripping of water wearing away the rock, are, perhaps slowly, but certainly, surely awakening the public, the great trading firms, civic bodies and others to their duties as custodians in varying degrees of the many natural beauties of our country and preventing their despoilation for trade purposes.

The inartistic billboard, that everywhere intrudes its unwelcome presence, is being fought by this association. The preservation of the great cataract at Niagara Falls and its surrounding beauties of scenery, the conserving of our forests, interesting the children, beautifying of water ways, the extension of park and playground systems, and the planting of trees on the prairie states are among the more recent subjects that are pleasingly yet convincingly written up in the association's most recent budget of articles that are being sent out

free to editors of magazines and newspapers throughout the country, and their dissemination is bound to be productive of good results. While the AMERICAN FLORIST, as a trade paper, is prevented by lack of space from using many of these excellent articles, its sympathies are all on behalf of so progressive and far-reaching an institution as the American Civic Association, which has the best wishes of every lover of nature for a long continuance and expansion of its sphere of usefulness.

Meetings Next Week.

Baltimore, Md., April 12, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Chicago, April 14.—Gardeners' and Florists' Union No. 10615, 10-12 Clark street.

Cleveland, O., April 12, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

Lake Geneva, Wis., April 17, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Madison, N. J., April 14, 8 p. m.—Morris County Gardeners' and Florists' Society, Masonic hall.

New Orleans, La., April 11, 2 p. m.—Gardeners' Mutual Protective Association, 118 Exchange alley.

New Orleans, April 15, 8 p. m.—New Orleans Horticultural Society, Kolb's hall, 127 St. Charles avenue.

New York, April 12, 7:30 p. m.—New York Florists' Club, Grand Opera House building.

New York, April 14, 4:30 p. m.—Horticultural Society of New York, American Institute rooms.

Pasadena, Calif., April 16, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Rochester, N. Y., April 12, 7:30 p. m.—Rochester Commerical Florists' Association, 24 Stone street.

San Francisco, Calif., April 17.—Pacific Coast Horticultural Society.

Scranton, Pa., April 16, 7:30 p. m.—Scranton Florists' Club, Guernsey building.

Bulletins Recently Issued.

By the Department of Agriculture, Washington, D. C:

"The Spineless Prickly Pears," by David Griffiths.

"The Basket Willow," by Wm. F. Hubbard.

"The Repair of Farm Equipment," by W. R. Beattie.

"The Dairy Industry in the South," by B. H. Rawl, Duncan Stewart and Geo. M. Whitaker.

By the New York Experiment Station:

"Sulphur Sprays for Blister Mite," summarized by F. H. Hall from bulletin by P. J. Parrott.

"Alfalfa Troubles," summarized by F. H. Hall from bulletin by F. C. Stewart, G. T. French and J. K. Wilson.

"The Tussock Moth in Orchards," by W. J. Schoene.

"Potato Spraying Experiments in 1908," by F. C. Stewart, G. T. French and F. A. Sirrine.

"Variety Test of Strawberries and Cultural Directions," by O. M. Taylor.

"Directors' Report for 1908," by W. H. Jordan.

By the Alabama Experiment Station:

"Reprint of the Horticultural Law and Rules of the Alabama State Board of Agriculture," by R. S. Macintosh.

By the Connecticut Experiment Station:

"Commercial Feeding Stuffs, 1908," by E. H. Jenkins and J. P. Street.

"Agricultural Lime," by E. H. Jenkins and E. M. East.

"Eighth Report of the State Entomologist," by W. E. Britton.

"Forest Survey of Litchfield and New Haven Counties," by Austin F. Hawes.

By the Oklahoma Experiment Station:

"Alfalfa in Oklahoma," by L. A. Moorhouse and W. L. Burlison.

By the Pennsylvania Department of Agriculture:

"The San Jose Scale," by H. A. Surface.

By the West Virginia Experiment Station:

"Commercial Fertilizers," by J. H. Stewart and B. H. Hite.

"San Jose Scale and Other Dangerous Insects."

By the Ohio Department of Agriculture:

"Seventh Annual Report of the Chief Inspector."

By the Delaware Experiment Station:

"Diseases of Field Crops in Delaware," by H. S. Jackson.

"Report on Forest Conditions in Delaware" and "A Forest Policy for the State," by W. D. Sterrett.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—By up-to-date stor man best of reference permanent place desired. Key 843, care American Florist.

Situation Wanted—By competent all-around florist as manager of retail establishment; must be permanent; married; references; state salary. Address Key 837, care American Florist.

Situation Wanted—By landscape architect capable of drawing his own plans, thorough in his branch, wishes to connect with a reliable firm; references. Address Key 838, care American Florist.

Situation Wanted—By a first-class gardener on a private or commercial place 12 years experience in all branches of gardening. Married, 2 children; age 33 best of reference. Address EUGENE OBERER, Roslyn L. I.

Situation Wanted—By young married man, German; a strictly first-class carnation grower; able to take full charge; am a worker and know how to handle help to best advantage; will be ready by first of June. Address Key 841, care American Florist.

Situation Wanted—By young unmarried all-around greenhouse man; can grow roses, carnations, orchids, grapes, pot plants, etc.; institution or private place preferred; excellent references; please state particulars. Key 835, care American Florist.

Situation Wanted—By young married man as grower of carnations, 'mums, vegetables and bedding plants; either commercial or private and near Philadelphia; 10 years' experience; best of references; at liberty June 1. Address Key 828, care American Florist.

Situation Wanted—A young man wishes employment in greenhouse; have had four years' experience in carnations, roses and all kinds of greenhouse plants and wishes a good place to improve himself; can bring best of references. Address Key 842, care American Florist.

Help Wanted—A competent young man to do general greenhouse work on retail place; nice place; county seat; near Pittsburg, Pa.; Catholic preferred. Key 844, care American Florist.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to WRIGHT'S FLOWER SHOP, 224 W 4th St., Los Angeles, Calif.

Help Wanted—At once a good orchid man who is capable of growing for cut flowers only; none but such need apply; state all particulars in first letter. Address F. VARDEN, 26 Summerfield St., Fall River, Mass.

For Sale—In central northern state an old established florist business over 15 000 ft. glass well stocked, about ten acres land. $2.500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

WANTED.

First class up-to-date designer and decorator for my retail store. H. R. HUGHES 690 W. Van Buren St., Chicago, Ill.

FOR SALE BEES

Full colonies, $7.50; Three frames of bees with queen, $5.00.

W. C. DAVENPORT, 4166 Central St., Chicago.

Wanted—Store Fixtures.

Will buy out retail store to furnish my new place. Address, at once,

J. A. MENDEL,
422 W. 18th Street., Chicago.

Competent Bookkeeper

Open to engagement in Seed, Nursery or Floral establishment. Has had practical experience in horticultural line and speaks several languages. Could assist with other work besides bookkeeping if necessary. German, age 35. Address

Key 842, care American Florist.

Greenhouse Manager.

The advertiser is open to engagement as manager or foreman on a general commercial greenhouse establishment, preferably on the Pacific Coast; have had ample experience with roses, carnations, chrysanthemums, etc.; age 33 years; single; state salary and full particulars as to requirements. Address

Key 836, care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Landscape Foreman.

Wanted foreman on landscape construction work. State full particulars as to references, experience and salary.

KLEHM'S NURSERIES.
ARLINGTON HEIGHTS, ILLINOIS.

Nursery Foreman.

We want a competent nursery foreman; good opening for right man; address at once with full particulars.

Key 827, care American Florist.

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y.

NOW READY

Trade Directory

FLORISTS, NURSERYMEN, SEEDSMEN

THE NEW 1909 EDITION

—PRICE, $3.00 POSTPAID.—

AMERICAN FLORIST CO., 324 Dearborn St., CHICAGO.

How Plants Feed.

The subject "How Plants Feed" is one that has been treated over and over again in text-books of botany, horticulture and agricultural chemistry, and in popular bulletins and articles for the general reader. The reason for its introduction at this time, says W. Lochead, in a paper read before the Canadian Seed Trade Association, in Ottawa, February 5, 1909, is that the subject deals with a question that is of perennial interest, on account of its relation to the growth and life of plants. Moreover, it is generally recognized that it is the duty of the intelligent plant-grower to acquaint himself as thoroughly as possible with the processes by which plants absorb, digest and assimilate their food. It may be stated at the outset that there are many phases of plant nutrition that are not well understood today, in spite of the wonderful progress that has been made toward a correct understanding of the laws that regulate the life of plants.

PLANT'S RELATION TO SOIL AND AIR.

The common higher land-plants, such as we ordinarily deal with, stand in vital relationship to the soil and the air. Their structure shows that they are specially adapted to this double environment. The roots which penetrate the soil are arranged so as to reach a large area of soil by means of the numerous fine branches. The tip of each rootlet is furnished with a large number of root hairs which function has organs for absorbing water and the mineral salts dissolved in it. The fibers that give strength to each rootlet are collected near the core so as to resist most effectively the pulling strains exerted by the movement of the stem.

The stem acts as a supporter of the leaves, as a carrier of the solutions taken in by the roots to and from the leaves, and sometimes as a reservoir of manufactured food. The fibers that give strength to the stem are often arranged in the form of a hollow cylinder to resist most effectively the transverse strains to which the stems are continually subjected. The leaves are specially related to the air and sunlight. They exhibit a broad surface to intercept the incident rays; they have special means for the exchange of gases; and they are the special factories for the conversion of crude sap into carbohydrates, such as sugars, starches, etc., fats and proteids.

ABSORPTION OF FOOD MATERIALS.

In this paper I make a distinction between food materials and food. Mineral salts in solution and carbonic acid gas are food materials, but they are not food for the plant. It is well to bear this distinction in mind. One can observe this difference in the germinating plant. For the first few days it is feeding upon food stored up in the seed. It would starve, as animals would, if supplied with only water, mineral salts and carbonic acid. Moreover, certain plants such as fungi and other parasitic and saprophytic plants feed normally upon food such as carbohydrates and proteids, prepared for them by other green plants.

Plants get their raw food materials, from which they make food, from the soil and the air. Many analyses of many plants and cultures in solution reveal the presence of carbon, hydrogen, oxygen, nitrogen, sulphur, phosphorus, iron, calcium, potassium and magnesium as essential to the healthy green plant. Silicon, sodium and chlorine are usually present in most plants but their presence is not essential. With the exception of carbon, which is inhaled by the leaves as CO_2, the other essential elements are taken into the plant in solution as mineral salts. The root-hairs are the special organs of absorption. The process is termed osmosis, modified to a certain extent by the protoplasm within the living root-hair cell. The root-hair is richer in organic substances than the soil is, hence there is a movement of water inwards leading to a turgidity of the cells. The soil, on the other hand, contains mineral salts in solution, which are not present in any appreciable amount in the root-hair; and the result is that these mineral salts will pass in through the walls of the root-hairs, and in like manner, will pass from cell to cell until it is forced into the vessels of the wood, through which the solution can pass up to the leaves.

At first all mineral salts in solution will pass into the root with equal freedom, but some will be utilized by the plant for the manufacture of food to a greater extent than others will be. There will come a time when certain solutions will pass in faster than others. In those cases where the salt is not used by the plant the cell sap will soon be as concentrated with regard to the mineral nutrients as the soil outside and none will enter the root-hair. This explains why a plant selects certain salts in preference to others.

THE WORK OF THE LEAF.

The leaf has very aptly been likened to a mill, with the sunlight as the power or energy; the living leaf-green cells the machinery, the crude sap and the carbonic acid the raw materials, the starch and other organic substances the manufactured products, and the oxygen and water vapor exhaled from the leaf the waste products. The presence of this mill is the distinguishing difference between plants and animals, so far as nutrition is concerned. Plants are organisms that make their own food out of the inorganic world about them. Animals are dependent upon plants for their supply of food.

The essential work of the leaf is the manufacture of carbohydrates; in fact the world's supply of carbohydrate depends upon the activity of the leaf. The leaf is structurally well adapted for the performance of its work. The delicate cells within are protected by specially thickened layers of cells above and below; just beneath the upper layer is a layer—the palisade—which absorbs the sunlight; the cells lying between the palisade layer and the lower protective layer are loosely joined together, so that there are many intercellular air spaces. In this spongy tissue the vessels and tubes of the veins of the leaf terminate; in the lower protective layer are numerous minute openings, the breathing pores or stomates which allow of movement of gases in and out. In leaves of cereals, however, there is a departure from the type of leaf described.

The manufacture of carbohydrates takes place in the green cells, but the details of the process are not yet thoroughly understood. This much is known, however: Sunlight is necessary, the leaves must contain chlorophyll or leaf-green, the plants must be living, CO_2 must be present, a proper degree of temperature is required, and potassium must be present. Apparently the formation of carbohydrates is only carried on by those specialized bits of living matter that contain the leaf-green, and is, therefore, essentially a vital process. After the CO_2 and water enter the green cells, they undergo chemical change, resulting in the formation of a soluble carbohydrate, and the liberation of free oxygen. The first stages of the making of carbohydrates are not clear, and I shall not trouble you with the disputed points. Although starch is the first visible product formed, it is now believed that glucose and fructose sugars are formed very early, and that these are converted into cane sugar and starch. In daylight the starch accumulates in the cells of the leaf, but at night when the mill is closed down, so far as the manufacture of carbohydrates is concerned, the starch and cane sugar are transformed by separate enzymes into maltose, glucose and fructose, which are carried from the leaf into and along the stem to the growing regions, and to special storage reservoirs in root, stem or seed. Cane sugar and starch must then be considered as temporary reserve or storage substances, since the first sugars formed are not carried away as fast as they are manufactured.

Fancy and Dagger FERNS $2.00 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.
15 Province St. and 9 Chapman Place, BOSTON, MASS.
WHOLESALE COMMISSION FLORISTS
Hardy Cut Evergreens and Florists' Supplies
We have the stock and can fill all orders, large or small.
FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Southern Wild Smilax.
Log Mosses, natural and perpetuated, now ready for shipment.
E. A. Beaven,
EVERGREEN, ALA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

Southern WILD SMILAX
Write, wire or telephone the introducers.
Caldwell The Woodsman Decorative Co.
EVERGREEN ALABAMA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.
Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Prices Are Down
AFTER EASTER

PRICE LIST—In Effect April 12.

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00 to $4 00
24 to 30-inch	2 00 to 2 50
20-inch	1 50
15-inch	1 00
12-inch	50 to 75

KILLARNEY AND RICHMONDS.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	4 00 to 5 00
Short lengths, per 100	3 00

BRIDES, MAIDS AND PERLES.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	4 00 to 5 00
Short lengths, per 100	3 00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100,	$4 00 to $ 5 00
Fancy white, good stock, per 100	3 00 to 4 00
Fancy pink, good stock, per 100	3 00
EASTER LILIES, per doz. $1 50; per 100	10 00
LILY OF THE VALLEY, per 100	2 00 to 4 00
SWEET PEAS, per 100	50 to 1 00
ASPARAGUS SPRAYS, per 100	2 00 to 4 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, per doz	2 50
ASPARAGUS STRINGS, per string	40 to 50
ADIANTUM, per 100	1 00
GALAX, bronze, per 1000	1 50
GALAX, green, per 1000	1 50
FERNS, per 1000	2 50

BUY DIRECT OF THE GROWERS

BASSETT & WASHBURN,

Store and Office: 76 Wabash Ave. **CHICAGO.** Greenhouses: HINSDALE, ILLINOIS.

WIRE US on anything you run short of in

Cut Flowers and Supplies

Our stock and supply is large.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Giving Away Plants Illegal.

Forbidding the giving away of plants is a matter which, apparently, has as yet attracted little attention at the state house or among the public, says the Boston Traveler. These words, however, may be picked from a bill seriously proposed by the state board of agriculture and backed by Secretary J. Lewis Ellsworth:

"It shall be unlawful for any person to give away within the state any plants commonly known as nursery plants unless such person holds a grower's certificate or an agent's license and unless a copy of such certificate or license shall accompany each package given away."

Folks who happened to look this bill over are wondering if it will not be a great help to the nurserymen. It provides a fine of not less than $25 or more than $100 for each and every offense of giving away your own plants. The title of the bill is "An act to provide for the protection of trees and shrubs from injurious insects and diseases."

Greenhouse Building.

Buffalo, N. Y.—W. J. Palmer & Son, four connected houses, each 23x382 feet; C. J. Hewson, two houses, 32x108 feet each; G. Basler, one house 36x75 feet.

Syracuse, N. Y.—D. H. Baker, one house 40x150 feet; P. R. Quinlan, one house 32x200 feet.

Rochester, N. Y.—E. C. Campbell, one house 32x150 feet; Mrs. W. S. Kimball, one house 22x86 feet; F. C. Mossgraber, one house 28x150 feet; State hospital, one house 25x150 feet; H. K. Elston, one house 18x14 feet.

Great Neck, N. Y.—H. P. Booth, one house 18x100 feet; two houses 18x60 feet each, one leanto 7x60 feet.

Denver, Colo.—S. O. Johnson, one house 25x100 feet.

Summit, N. J.—John N. May, five connected houses 28x225 feet each.

Chillicothe, O.—C. F. Brehmer, one house 42x83 feet, two connected houses 25x83 feet each, one leanto 10x92 feet.

E. Bridgewater, Mass.—P. & W. O. Jahn, one house 42x130.

West End, N. J.—W. G. Eisele, two connected houses 26x150 feet each, one leanto 7x150 feet.

Boundbrook, N. J.—Thomas Young, Jr., two detached houses 25x500 feet each.

Germantown, Pa.—John Welch Young, Upsal Station, one house 35x300 feet.

Canandaigua, N. Y.—E. Sick, one house 22x90 feet.

Grange, Md.—B. G. Merritt & Co., two connected houses 32x300 feet each.

Madison, N. J.—A. H. & W. S. Schultz, two detached houses 19x150 feet each.

Valverde, Colo.—Frank Hollberg, three connected houses 25x125 feet each.

Galliopolis, O.—State hospital for epileptics, two connected houses 21x67 feet each.

Union, N. H.—Frank Varney, one greenhouse.

Somerset, Mass.—Traynor Bros., one greenhouse.

Menominee, Mich.—Chas. Schulz, extension of greenhouse plant.

La Fayette, Ind.—Frank Schilling, two greenhouses, each 26x100 feet.

Canon City, Colo.—Isaac Davis, one greenhouse.

Monmouth, Ill.—Hewitt Flower Store, one greenhouse.

Guthrie, Okla.—Furrow & Co., one greenhouse 50x150 feet.

Waterbury, Conn.—T. S. Lewis, one greenhouse 20x50 feet.

Fremont, Neb.—C. H. Greene, one new greenhouse and alterations and additions to present plant.

Albany, N. Y.—O. Burkhart, one greenhouse 30x150 feet.

Chicago,—Joseph Vacha 2550 Forty-Seventh place, two houses, 22x100 feet.

Hightston, N. J.—Tracy H. Norton one greenhouse.

Ashtabula, O.—R. W. Griswold, Jr., 12 greenhouses; Dunbar & Hopkins, 10 greenhouses; Griswold Greenhouse Co., six greenhouses; Adams Bros., five greenhouses; Gallup Bros., five greenhouses.

Rowayton, Conn.—Traendly & Schenck two greenhouses.

Philadelphia, Pa.—Geo. Burton, one greenhouse 27x150 feet.

St. Louis.

TRADE DULL BEFORE EASTER.

The week just passed has been a dull one. Carnations, however, especially white, have held a stiff price, also white roses. Sweet peas are daily becoming more plentiful and of fine quality. Owing to the cool weather some good violets are seen, but the majority are small and the public seem to be tired of this flower for this season. The cry all over is that flowering plants and lilies will be scarce for Easter, but it is certain that a great many will be shipped in.

NOTES.

Park Commissioner Scanlan will shortly throw open to the general public that portion of Forest park that has been closed, the World's Fair grounds. Fair Ground park, formerly known as the race track will also be open to the public shortly. The park is being laid out and will be one of the finest in the city.

It is reported that the early closing movement among the wholesalers will be extended. They will endeavor to close at 5 p. m. daily and 12 a. m. Saturdays and Sundays during June, July and August.

Walter Retzer, formerly of the St. Louis Seed Co., will shortly leave the city to take up a position with the Honduras National Railroad Co.

The Florists' Club will meet next Thursday, but the near approach of Easter will probably cut down the attendance.

Isaac Spacht of Jerseyville, Ill., was in town; he reported first class trade all winter with prospects of good spring trade.

Last Tuesday Oscar R. Beneke, son of J. J. Beneke, was married to Miss Stella Tunse. The wedding was private.

A. Jablonsky is cutting some very fancy carnations and roses.

A new entrance and public baths are being erected at Carr park.

Fred Ammann is cutting some fancy Mme. Chatenay roses. W. F.

Cleveland.

TRADE VERY BRISK.

Trade the past week has been brisk in all lines and most stock is sold before it arrives. This is especially true of carnations, with roses a good second. Bulb stock has a good call, the best in years, perhaps on account of the smalier quantities grown. Lilies of all kinds are selling readily and the prospects are very good in this line from now on. Some of the finest stock seen in this market is being shipped by the Lamborn Floral Co. of Alliance and handled by The Cleveland Florists' Exchange. The Easter outlook was never better with all lines cleaning up in good shape, the most noticeable fact being each day's receipts being sold at once.

RETAILERS' WINDOWS.

There are several ways of producing business which have been clearly shown lately the most noticeable of which have been some of the windows put up by our leading retailers. The one that attracted the most attention was that of Smith & Fetters arranged by Frank Smith of this firm. It was composed of lycopodium for the bottom with miniature pink azaleas and decorated novelty hats for ladies, after the style that has been criticised so much of late by the daily papers in general; one in particular was an ordinary waste basket filled with scrap letters and trimmed with artificial fruit and natural flowers. The overhead decorations were of the richest satins and silks in the Alice blue shade with novelty air ships and light violets. The crowds around this display have been enormous, showing that the artistic effect is fully appreciated by the public at large. The interior of the store followed the same idea being trimmed lavishly with southern smilax and flowers with Easter plants in grand display, the entire force being taxed to the utmost in handling the trade these ideas have attracted.

The Gasser Co.'s retail store has a grand display of yellow azaleas with yellow Porto Rican mats and ribbon to match; this makes a stunning attraction and was fully appreciated by the noticeably large crowds the store has been handling of late.

On the west side the Knoble Bros. have the display advertising beside the window in the shape of a large display sign; this, together with the newspaper advertising, keeps them always busy. Nearly all the other retailers are making grand efforts in this line, especially with their windows.

NOTES.

The Ohio Floral Co., with a store in the Majestic Theater building and greenhouses in Parma, will discontinue business about June 1, the greenhouses and land having been leased to a party of vegetable growers. The store will be run as before by Miss Ehrbar, who has formed a partnership with Mr. Connors, the new firm to be known as Ehrbar & Connors. The good will of the trade in general goes with them in the new venture.

C. B. Wilhelmy, The Ehrbar Co. and Wilhelmy Bros. have all been busy lately with funeral orders having used great quantities of stock for this purpose.

Frank Williams, of The Cleveland Cut Flower Co., has returned from the south where he has spent the winter with his family. C. F. B.

Montreal.

PROSPECTS GOOD.

The outlook for Easter is very good with plenty of good stock ready to make it so. Lilies, especially the black stemmed variety, turned out very good and there will be sufficient to go around. The list of pot grown roses, being increased by several new varieties like Baby Dorothy and Tausendschon, will be better than ever before. Crimson Rambler is thickly set with buds this year; very little trouble is found of its going blind. Hydrangeas, azaleas, rhododendrons, spireas and bulbous stock are in abundance and seemingly in good time. Lilacs with some growers have not been very successful but the trouble seems local as with others they are all right.

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 5 00
30 inch stems	4 00
24 inch stems	3 00
20 inch stems	2 50
15 inch stems	2 00
Short stems	1 00
	Per 100
Killarney, select	$10 00 to $12 00
Medium	5 00 to 8 00
Mrs. Jardine, select	12 00 to 15 00
Medium	7 00 to 10 00
Uncle John, select	8 00 to 10 00
Medium	4 00 to 6 00
Bridesmaid and Bride, se'ect	8 00 to 10 00
Medium	5 00 to 6 00
Chatenay, select	8 00 to 10 00
Medium	5 00 to 6 00
Richmond, select	8 00 to 10 00
Medium	5 00 to 6 00
Carnations, fancy	6 00
Good	5 00
Easter Lilies, short	10 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Violets	1 00 to 1 50
Valley	3 00 to 4 00
Daffodils	3 00 to 4 00
Callas	12 00 to 15 00
Paper White	3 00 to 4 00
Asparagus Plumosus Extra quality, per bunch	75c
Fancy Ferns, per 1000	$ 2.50

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

After Easter
Price List.

AMERICAN BEAUTIES

	Per doz.
Long Stems	$4.00
30-inch stems	3.00
24-inch stems	2.00
20-inch stems	1.50
15-inch stems	1.00
Short stems	.75

	Per 100
Richmond	
Select	$ 6.00 to $ 8.00
Medium	4.00 to 5.00
Killarney	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Mrs. Marshall Field	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid, Bride	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Chatenay, Ivory	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Perle, Sunrise	
Select	4.00 to 8.00
Roses, our selection	3 00

CARNATIONS

	Per 100
Are all good	$ 2.50 to $ 3.00
Easter Lilies	
Short	$10.00 to 12.00
Select	15.00
Tulips,	4.00 to 5.00
Violets,	.75 to 1.00
Valley,	3.00 to 4.00
Daffodils,	3.00 to 4.00
Callas,	12.00 to 15.00

Asparagus Plumosus
Extra quality per bunch, 75c.

Fancy Ferns
Per 1000 $2.50

Give your customers roses that keep well and you will keep your customers.

Reinberg's roses outlast any others.

PETER REINBERG
35 Randolph St., CHICAGO.

Trade last week was quiet. Roses and carnations are plentiful and of good quality; violets are offered at 25 cents a bunch. There is a steady sale of flowering plants all along.

NOTES.

At Hall & Robinson's the stock of Easter plants is very fine; their pot grown roses as usual are of the best, also the lilies. Their rose houses will have an immense crop for Easter. Killarney is easily the best and their carnations in the large house have greatly improved since January and are the picture of health. The place is perfectly free of insects, hydrocyanic-acid gas being used.

The landscape gardeners expect to be busy this spring; all claim to have large orders for trees, shrubs and hardy perennials and as soon as the snow has cleared off the ground planting will commence; there is no frost in the ground this year, the heavy coat of snow and ice prevented it penetrating and outdoor roses and perennials will come through in good condition.

P. McKenna & Son have a great show of well grown hydrangeas, spireas and a good lot of lilies, also an immense lot of bulb stock.

E. Bourboniere, whose place of business on St. Denis street was closed for some time last winter, has opened again.

A. C. Legare is making plans for another addition to his range of houses.

LUCK.

San Francisco.

LILIES WILL BE SHORT.

The market at the present writing is very quiet, but we are looking for an improvement when the Easter trade commences in a few days. The early part of March had been quite a busy time for some of the retailers, on account of the reopening of the large retail stores in the down-town district. Many of these stores were decorated for the opening day with greens and flowers and many handsome and expensive baskets of flowers had been ordered for the occasion. Flowers of all seasonable kinds are in the market in ample quantities to supply all demands and prices are accordingly not very high. Indications are that there will be plenty of everything for the Easter trade, with the possible exception of lilies, which seem to be coming in late and are of poor quality, mostly very short stemmed.

NOTES.

During a recent visit to Superintendent Eldred of W. H. Crocker's extensive estate at Burlingame, I found him very busy in transforming this place into one of the most beautiful places on the coast. No money or labor is spared to push the work ahead and it is astonishing what has been accomplished under the able leadership of Mr. Eldred in so short a time. Large trees are being moved for miles to get an immediate effect for the Italian gardens surrounding the newly erected residence of Mr. Crocker. The views to be had from the different courts over the San Francisco bay and the surrounding country are most beautiful and are a testimony to Mr. Eldred's artistic ability as a landscape architect. There are quite a number of other private estates at Burlingame and San Mateo improving their parks, etc., giving their gardeners as well as the landscape gardeners a busy time.

E. W. McLellan & Co. will have a great number of rambler roses; these are looking very promising, also a new house, 22x300 feet, the greater part of which is filled with Lilium longiflorum; the most of these will be ready for the Easter trade. They are cutting some very fine roses at this place.

The Pacific Coast Horticultural Society is out with a fine premium list for the fall exhibition, to be held October 14-16. Some very attractive prizes are offered for growers of choice plants and flowers, as well as for artistic work by the retailers.

THE
J. M. McCullough's Sons Co.
Wholesale Commission Florists.
CONSIGNMENTS SOLICITED.
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Wholesale Flower Markets

ST. LOUIS, April 7.

Roses, Beauty, long stems	4 00@ 5 00
" " medium stems	2 00@ 3 00
" " short stems	50@ 1 00
" Bride, Bridesmaid	5 00@10 00
" Chatenay	5 00@10 00
" Ivory	5 00@10 00
" Killarney	4 00@ 8 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	6 00@10 00
" Richmond	6 00@10 00
" Alice Roosevelt	5 00@ 8 00
Carnations, fancy	3 00@ 4 00
" common	1 50@ 2 00
Lily of the Valley	3 00
Violets	35@ 40
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 50	
Smilax	12 50@15 00

CINCINNATI, April 7.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Tulips	4 00@ 5 00
Violets	1 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, April 7.

Roses, Beauty, special	5 00@ 6 00
" " fancy	3 50@ 4 00
" " shorter	1 00@ 3 00
" Bride, Bridesmaid	4 00@12 00
" Killarney	5 00@12 00
" Richmond	4 00@15 00
Carnations	2 00@ 6 00
Callas	10 00@12 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Forget-me-nots	50@ 75
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	12 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 4 00
Pansies	50@ 75
Sweet Peas	60@ 1 00
Tulips	2 00@ 3 00
Asp. Plumosus strings, each	40@ 50
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	12 50@15 00

MILWAUKEE, April 7.

Roses, Beauty	1 00@ 5 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@10 00
" Liberty, Chatenay	4 00@10 00
" Perle	4 00@ 8 00
" Richmond	4 00@10 00
Carnations	1 50@ 4 00
Daffodills	2 00@ 3 00
Lilium Giganteum	15 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	25 35
" Sprengeri, "	25
Ferns, Common, per 1000	2 50
Galax, per 1000	1 50
Smilax, per doz.	1 75

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.
WM. F. KASTING CO. Who esale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

Holton & Hunkel Co.,
WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

RICE BROTHERS
Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

Weiland & Olinger,
128 E. Third St., CINCINNATI, OHIO.
Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

The Art Floral Co. and Sievers Floral Co. have closed their up-town stores and are now fully established in their new and very elaborately fitted up quarters down town.

John MacLaren, superintendent of Golden Gate park has had a very severe attack of influenza but is reported to be about again.

D. MacRorie reports the arrival in excellent condition of an importation of 5,000 plants of phalænopsis and vanda.

Ferrari Bros. have a very fine lot of spireas just right for Easter also some good lilies.

Podesta and Baldochi will be in their new store on Grant avenue April 1.

P.

Chicago.

ADVANCE EASTER DEMAND STRONG.

The market has been affected by the Easter demand. The old fashioned habit of holding stock back caused the prices of carnations to advance so that by Sunday and Monday the regular Easter list was in effect, especially for white. All orders could not be filled in full for white even at the Easter rate. With roses, including American Beauty, the advance has not been so sharp as the supply has been large and the quality run good. Medium length American Beauty and extra long Killarney and Richmond have been rather scarce. The heavy demand for Easter lilies took a slump when on Monday the thermometer began to soar, and indeed lilies have been much more plentiful than was expected. There has been a very heavy call for potted lilies. This feature of the Easter trade seems each year to be growing and large growers are catering to it by packing at the greenhouses ready for shipment direct to customers. Orders for hyacinths cannot be filled. Other bulbous stock has been about equal to the demand. Violets have been in good supply with prices unchanged. The price of common ferns has advanced to $2.50 per 1,000.

HAIL AT BOWMANVILLE.

A severe hail storm swept through the Bowmanville greenhouse district Tuesday afternoon. Some houses were entirely destroyed while others near by entirely escaped. Probably the average damage will run close to 15 panes to the house as it did at the J. A. Budlong establishment. At the Guardian Angel's Orphanage greenhouses, 401 Devon avenue, 1,000 panes were broken. Strangely enough the nearby places of Wietor Bros. and Matt Evert suffered very slight damage. Anton Then, 143 Winnemac avenue, lost about 700 panes of glass, the houses on the southwest corner getting the brunt of the storm and being nearly entirely destroyed. He also suffered a serious loss among his stock plants, including some of his Easter lilies. Frank E. Carlson's place, 3319 N. Western avenue, was seriously damaged as was also that of Fred Weber at 60 Bowmanville avenue. N. J. Kruchten, 3202 N. Western avenue, suffered heavy damage, very little glass being left in two of the houses. H. Bauske, 3210 N. Western avenue, and John Assa, 112 Bowmanville avenue, were also heavy sufferers. Wm. Kreutz, 613 Cemetery drive lost nearly half his glass and 800 panes are out of the greenhouses of the Rose Hill cemetery. It is reported that Peter Reinberg on Tuesday morning placed an order for 200 boxes of glass to repair his damage. John Miller placed an order for 25 boxes. The wind velocity reached 52 miles during the night and it is reported that J. Vacha & Sons, 2550 W. Forty-seventh place, had 600 panes of glass blown out.

FLORISTS' CLUB.

The regular meeting of the Florists' Club was held at the Union restaurant April 1. President Asmus in the chair. The chief business was the election of 10 new members as follows: S. W. Baker, John Bell, M. Matchen, W. Adams, Geo. Peiser, R. E. Kurowski, P. Olson, W. T. Scofield, Max Ringler and M. Fink. Albert T. Hey for the committee on revision of constitution and by-laws presented a new code which will come up for second reading at the next regular meeting. In the meantime it will be printed and copies mailed to each member so that they will have time to look it over before the next meeting. Andrew Benson in speaking of the recent Buffalo exhibition of the American Rose Society deplored the lack of enthusiasm on the part of western growers and trusted they would make a better showing of exhibits at future exhibitions. A postal card from Gustav Pearson, Salem, Mass., requesting aid and addressed to Secretary Rudd of the Society of American Florists was turned over to the club to be acted upon without delay, as the executive committee of the national society will not meet again until August. The secretary of the club was instructed to make inquiries in the case and report at the next meeting.

Chairman Enders of the entertainment committee was quite successful with his cinch party at the Grand Pacific hotel April 2, there being an attendance of about 60. The prize winners were: W. O. Johnston, John Kruchten and Walter Scott (of La Grange) among the men, and Mrs. Geo. Asmus, Mrs. Leonard Kill and Miss Ludwig among the ladies.

NOTES.

The Fleischman Floral Co. has been exhibiting a number of Easter hats, artistically trimmed with ribbon and flowers, all the week in the west window of the store on Jackson boulevard. The hats open at the crown to receive a bunch of violets or other flowers and have already proved excellent sellers at $10 or so each according to the flowers and trimming. Over 30 of these were sold in the first two days they were shown and they are being sent to all parts. Trade here has been remarkably brisk, good funeral orders being a special feature. Among the latter we noticed some very finely executed large funeral sprays of cycas leaves tied with purple ribbon that were very much above the average of this class of work.

After the Easter rush is over John Mangel is going to make considerable alterations to his store. The counters and other impedimenta have to come out and the interior will be finished in marble and mirrors. A fine new ice box will be installed and all up-to-date fixtures will be used. The windows are also to be improved and altogether Mr. Mangel will spend some $4,000 on the improvements. Trade has been extremely good here this season.

Members of the south park commission at its annual meeting held Monday afternoon in the office of the park, Fifty-seventh street and Cottage Grove avenue, re-elected all the officers of last year's board. The election of every member was unanimous and the following were chosen: Henry G. Foreman, president; Edward G. Shumway, secretary; Wm. Best, auditor; J. F. Foster, general superintendent.

The Ernst Wienhoeber Floral Co. reports a very heavy funeral business. On Friday last an order for a casket cover of ivy with a spray of variegated foliage was filled. On the following day another cover was made, using Killarney roses and a double spray of lily of the valley. On Monday a cover of lily of the valley and violets was made.

O. J. Friedman's new store on Michigan avenue is beginning to take shape and he evidently intends to have a very fine one. Marble and mirrors are being extensively used and it will be one of the lightest and best equipped stores in this excellent location.

Bassett & Washburn have begun cutting Kaiserin roses, and coming mostly from plants four and five years old are very large buds. They are now shipping 2-inch O. P. Bassett carnation plants ready for immediate benching.

Eric L. Eaton, husband of Emma L. Eaton and father of Mabel M. Eaton, of the Eaton Flower Shop, died April 1, aged 75 years. Interment was at Oakwoods. The store was closed on Friday and Saturday last.

Prof. J. J. Davis, assistant to the State entomologist, has taken possession of the air tight, bug-proof structure erected for the study of insect life on the high school ground at Oak Park.

Herman Schau, of Morgan Park, the other day received a 50 cent piece by mail with an order for a bunch of flowers and "please prepay express charges."

Stollery Bros. will move their retail store on May 1, from Evanston and Leland avenues to Wilson avenue near Evanston.

Indications, according to several good judges, are that all Easter records will be broken on this market.

Frank Beu has been sending to the cut flower market some of the old time Ulrich Brunner hybrid roses.

Max Ringier, recently with the Kennicott Bros. Co., is now with Vaughan & Sperry.

The Kennicott Bros. Co. on Saturday received 10,000 fine, long leucothoe sprays.

The E. F. Winterson Co. on Friday last received a second carload of box trees.

Zech & Mann have been showing some exceptionally fine Yellow Prince tulips.

The A. L. Randall Co. reports the sale of air plants as heavier than ever.

Keimel & Wendland, Elmhurst, are building three new greenhouses.

Mrs. John Steritt is now recovering from an attack of erysipelas.

Wietor Bros. report very heavy crops for the Easter demand.

The thermometer on Monday registered 70 degrees.

Frank Calvert, of Lake Forest, is ill.

Uncle John Thorpe is reported ill.

Visitors: M. Reukauf, of Philadelphia, Pa.; —— Dwight, Janesville, Wis.; A. Siegel, St. Louis, Mo.; Miss Jessie Baker, Clinton, Ia.; Robt. Shore, De Kalb.

MILWAUKEE, WIS.—The state railroad commission has decided that the street railway company must stop its cars at Fifty-first street on the West Allis line, as demanded by C. C. Pollworth. Mr. Pollworth bought a large tract of land for greenhouses in the vicinity with the understanding that the company would be required to stop its cars there. The company maintains that a stop would be an interference with its schedules.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.
21 Wabash Avenue, CHICAGO.

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.
ORCHIDS
A Specialty
Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.
Send for Complete Catalogue.

E. C. AMLING
THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.
32, 34, 36 Randolph Street, CHICAGO.
L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central 6004.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen,
—FLORISTS' SUPPLIES—

FOR EASTER

We have a large stock of of all novelties, including fancy Baskets, Waterproof Crepe, Two-Tone Crepe Pleated Crepe, Adjustable Waterproof Crepe Pot Covers Chiffons and Ribbons all colors Birch Bark Baskets and Canoes for Air Plants, etc.

Just received a fresh supply of Japanese Air Plant. Catalogue free.

"THE BUSIEST HOUSE IN CHICAGO"

WE ARE HERE TO SERVE YOU.

J. B. DEAMUD CO.

51 Wabash Ave., Chicago.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

—SEND FOR PRICE LIST.—
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,

CHICAGO.

L.D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO, April 7.

Roses, Beauty, extra select	5 00@	6 00
" " 36 in		4 00
" " 30 in		3 00
" " 20 to 24 in	2 00@	2 50
" " 15 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select	10 00@	12 00
" " " medium	6 00@	8 00
" Chatenay, select		10 00
" " medium	6 00@	8 00
" Golden Gate, Uncle John	4 00@	8 00
" Kate Moulton	4 00@	8 00
" Killarney, select	10 00@	12 00
" " medium	5 00@	8 00
" Mrs. Marshall Field, select	12 00@	15 00
" " " medium	6 00@	10 00
" Perle	5 00@	8 00
" Richmond, extra select	10 00@	12 00
" " medium	5 00@	8 00
Carnations	2 00@	5 00
Callas, per doz.	2 00@	2 50
Cattleyas, ($9.00 per doz.)	60 00@	75 00
Daisies	50@	2 00
Gardenias, per doz	6 00	
Irises	6 00@	8 00
Lilium Harrisii, per doz.	2 00	15 00
Lily of the Valley	3 00@	4 00
Pansies	1 50@	2 00
Sweet Peas	75@	1 50
Tulips		3 00
Violets, single	50@	1 00
" double	50@	1 00
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	4 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		2 00
Galax, green, per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50-lb. case		5 00

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WEILAND & RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders
—given prompt attention.—
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

New York.

GOOD EASTER EXPECTED.

The regular business of the wholesale district during the past week was not heavy, but through it all there was an undertone of hope and expectation of a good Easter. With good weather, all the indications are favorable to fine holiday business. Leading hotel men report that their business has of late greatly improved, due largely to the return from southern resorts of many city residents who have wintered in those summer climes. It is generally believed that there will be enough cut stock to supply all demands, but there are no indications of a surplus in leading stocks. Already there is a stiffening in the prices of American Beauty roses, which for several weeks past have been selling very cheap. On April 3 specials brought 40 cents, which is about what they sold for at Easter of last year, and, according to indications, they will go yet higher. The tendency in tea roses, carnations and violets, while not so marked, is upward. With good weather, violets are almost certain to sell well. By the middle of the week it will be possible to make a fair estimate of what the lily will do—or what buyers will do to it. There is an abundant supply of cut blooms on the market, but little good pot stock has yet arrived. There is little doubt that there are many lilies. The question is, are they of a quality that will sell well? A great amount of southern narcissus came in during the past week and it is now a staple stock with the peddlers. It goes without saying that the plant trade is active. Branch stores are being temporarily leased and filled up with plants and wagon loads of them on the main thoroughfares are daily sights.

April 5.—There is no unusual activity in the market this morning. American Beauty roses and violets are about the only stocks that, thus far, show an upward tendency, though 40 cents is the best offerings for the former, and 50 cents per 100 for the latter. The weather is fair but rather warm for the season and if present conditions prevail throughout the week there are prospects of a surplus of cut stock. Plantsmen are active and will be well prepared to handle their branch of the trade.

NOTES.

Chas. Thorley has had a verdict for $88,830 rendered against him, in favor of the Pabst Brewing Co. The case arose out of a basement which Mr. Thorley let to the defendant company and in which it conducted a rathskeller. This was demolished in subway construction thus breaking the lease. Mr. Thorley's counsel gave notice of appeal.

A fire on the upper floors of the Bristol building, Forty-second street and Fifth avenue on the evening of April 2, caused much excitement but fortunately no damage was done to the retail flower stores of Thos. Young, Jr., and Fleischman, which are located on the ground floor.

A powerful organization, of which Seth Low, ex-mayor, is the head, has been formed to fight the proposed encroachment of buildings in Central park. Prominent labor organizations have also taken action along similar lines.

Sir Thomas Scholes Magee, an Irish baronet devoted to gardening and who has 200 acres of his own under cultivation at Kilkenny county, passed through the city last week enroute to the west to visit Luther Burbank.

A. Warendorff of 1193 Broadway, had a large amount of fine funeral work during the past week for the funeral of the venerable John H. Starin, head and founder of the Starin line of steamships.

About 10,000 Japanese and Bermuda lilies will be shown in the Easter display at Prospect park, and, judging by the present condition of the plants, the show should be a remarkably fine one.

The plant market at Canal and Washington streets, opened for the season on April 3 and a good variety of stock was noted. The quantity will doubtless be increased as Easter approaches.

Many floral tributes were sent to the funeral of Mrs. Pierre Lorillard, Jr., at Tarrytown. The tragic death of Mrs. Lorillard at Washington, D. C., is fresh in the public mind.

J. K. Allen, 106 West Twenty-eighth street, is receiving shipments of very fine Jacqueminot roses that appear superior to the Richmond now on the market.

At a meeting of the trustees of the Growers' Cut Flower Co., April 3, a 10 per cent dividend was declared. Stock raised 25 to 35 per cent.

J. H. Small & Sons have, in the windows of their Broadway store, a very noteworthy exhibit of Lady Gay and Hiawatha roses in pots.

Chas. Milang has taken another store at Twenty-sixth street and Sixth avenue for Easter, and filled it up with fine plants.

Washington.

ADVANCE BOOKING GOOD.

The quietest period in society here is Holy week, and as a preliminary to a busy Easter it has its advantages. The fact that congress will be with us indefinitely will continue hospitalities for some time to come. Out-of-town shipments of Easter stock are arriving daily, and there are some excellent plants exhibited in the various show windows. So far as can be learned the retailers have booked a goodly number of advance Easter orders, and the general opinion is that we shall have an excellent Easter trade.

NOTES.

Z. D. Blackistone executed the decorations at the Japanese embassy; they were so arranged as to give a Japanese effect. The centerpiece was made up of Killarney roses and a good number of American Beauties, and azaleas were used in the parlor.

Geo. C. Shaffer furnished the flowers for the Alexander Stewart dinner given in honor of Vice-President Sherman. He also decorated and lent a number of handsome baskets for a play at Mt. Vernon seminary.

W. C. Brooke of Chevy Chase Greenhouses has made a success growing Beacon carnation, and believes it to be one of the best reds; he will also have a great many Easter lilies, but is sold out.

David Grillbortzer of Alexandria is sending in big shipments of Killarney and Richmond roses; these are his specials; he also grows some good Enchantress and Harlowarden carnations.

Chris. Schellhorn will have some excellent Bridesmaid, Golden Gate and Bride roses besides his miscellaneous stock, which he readily disposes of at his market stand.

A visit to the A. Gude Bros.' greenhouses showed that they have an excellent stock of azaleas, rhododendrons, lilac and other Easter plants which will be just on time.

A. Garden, the pioneer florist of this city, is cutting some good stock and will have an abundant supply for Easter.

The Washington Florists Co. reports a busy week, and will have a fine lot of Easter plants and cut stock.

Robt. Bowdler reports good business, and expects to have an excellent supply of various Easter stock.

Mayberry & Hoover claim business all that can be expected.

Geo. H. Cooke reports a fairly busy week.

Visitors: J. W. Dudley of Parkersburg, W. Va.; Sidney Bayersdorfer, Philadelphia, Pa.

G. S.

LENOX, MASS.—John Shepherd has given up his position at the Blantyre greenhouses.

Morristown, N. J.

The florists here are fully stocked for the Easter trade. The windows are being artistically arranged with cinerarias, azaleas, various colored rambler roses, hyacinths, tulips, etc. While a very large cut flower trade is being done here, plants are the big feature. They are not able to grow one-half they use but buy from the growers around Newark and Hoboken.

Andrew R. Kennedy, who has had charge of Brooklake, Dr. Leslie D. Ward's place at Madison, surrendered his charge April 1. This has been one of the show places of Madison, and it is reported that Dr. Ward does not intend to run it this year. This is a pity as under Mr. Kennedy's charge of three years, it has been a shining light.

Olaf Haarly, gardener to John A. Stewart for the past five years, sailed for Copenhagen, Denmark, last Thursday. He intends to stay a year. John Whalen, formerly gardener to C. W. Armour has taken his place with Mr. Stewart.

John Greenwald, for the past three years gardener to Wm. E. Wheelock, has rented the greenhouses of about 7,000 square feet from Dr. Waller. He expects to grow carnations and mignonette for the wholesale trade.

Wm. Hyland, for 12 years gardener to Mrs. Lord, in this city, has resigned to take charge of Stewart Hartshorn's place at Short Hills. Death in the Lord family causes them to give up the place.

Wm. H. Thomas, for 11 years gardener to F. C. Blanchard of Convent, has resigned. It is reported that Mr. Blanchard will rent the place. Another of the fine places on the retrograde.

E. R.

Irrigation Plans for Philippines.

The following item regarding irrigation plans for the Philippine islands is from the London and China Telegraph: "Evidence is not lacking that the government intend to make a serious effort to develop the agricultural resources of the islands by introducing an immense scheme of irrigation, which, it is expected, will involve an expenditure of between 10,000,000 and 15,000,000 pesos ($5,000,000 and $7,500,000). The main object of the government is to encourage the rice planters to extend the area under cultivation, so that the output may in time equal the home demand. The committee which was appointed to devise practicable ways and means contemplate the irrigation of 1,375,000 acres, but it is not considered probable that the entire system will be in operation for 37 years, while it will take 15 years for the Philippines to supply the wants of the people in rice. The committee recommends that the sum of 750,000 pesos ($375,000) be expended every year on irrigation.

MEDIA, PA.—Asa Bonsell, of the Cumberland cemetery, has erected a new greenhouse to provide cut flowers and plants for visitors and lot owners in the cemetery and, as there has been nothing of the kind before, it should prove a success.

BRATTLEBORO, VT.—Roland H. Messenger has resigned his position at the Bradley greenhouses and will enter the employ of Chas. W. Dunham. Mr. Dunham will build a thoroughly modern greenhouse of which Mr. Messenger will have charge.

N. Y. Cut Flower Exchange

Cogan Bldg., 6th Ave. & W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising

V. S. DORVAL, Secretary.

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Consignments Solicited.

Open every day at 6:00 a. m.
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THE WHOLESALE FLORIST OF NEW YORK

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Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

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ROSES A SPECIALTY

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WHOLESALE FLORIST,

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KESSLER BROS.

50 W. 28th St., NEW YORK.

CUT FLOWERS

Wholesale Plantsmen and Florists.

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Prompt and satisfactory. Consignments solicited

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PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, April 7.

		Per 100
Roses, Beauty, special		30 00@40 00
" " fancy		20 00@25 00
" " extra		15 00@20 00
" " No 1		5 00@10 00
" " No. 2		2 00@ 3 00
" " No. 3		1 00
" Bride, Bridesmaid, special		6 00@ 8 00
extra and fancy		4 00@ 5 00
No. 1		2 00@ 3 00
No. 2		1 00
" Killarney special		6 00@ 8 00
extra and fancy		4 00@ 6 00
" Richmond		1 00@12 00
Carnations fancy and special		3 00@ 4 00
" common		1 50@ 2 00
Callas	per doz.	75@ 1 00
Cattleyas		40 00@60 00
Daisies		50@ 2 00
Gardenias	per doz.	1 00@ 4 00
Lilac, Cut	per bunch	50@ 1 00
Lilium Longiflorum		6 00@ 8 00
Lily of the Valley		1 50@ 2 00
Mignonette	per doz.	30@ 60
Narcissus (Paper White)		2 00@ 2 50
" (Yellow)		1 50@ 3 00
" (Southern)		20@ 30
Sweet Peas	per doz bunches	30@ 1 00
Tulips		1 50@ 3 00
Violets		40@ 50
Asparagus	doz. bunches	2 00@ 3 00
Smilax		8 00@12 00
Stocks (Double white)	per doz	1 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.
Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Telephone 3870-3871 Madison Square.

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HORACE E. FROMENT

WHOLESALE CONMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephones: 2200 and 2201 Madison Square.

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WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

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Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists:
We are in the Heart of
And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St., NEW YORK

Consignments Solicited

Telephone 7062 Madison Square.

Philadelphia.

QUIET WEEK FOR PREPARATION.

The busy week is here again; as if to give the stores a rest the business of the week just past was rather quiet which gave time for advance work. Flowers were far too plentiful, there being quantities of carnations, roses, sweet peas, etc., thrown on the market and bought at the buyer's price. The recent raid on the Market street curb merchants has curtailed their operations, which is shown by the piling up of the flowers in the boxes and cold rooms of the wholesalers. Carnations, which are generally scarce at this time, appear quite plentiful and it looks as if the Easter demand will be filled without difficulty. Lilies are not as plentiful as last season. One large grower who generally forced 20,000 bulbs dropped out and several other men whose output ran into over this amount cut their importations from 33 to 50 per cent. W. K. Harris says he turned down two orders of over 10,000 buds and flowers each at 12 cents per bud as he could not fill them. Prices range from 10 to 15 cents per flower and bud differing with quality of the plants and energy of the buyer and seller. The department store price is advertised at 15 cents per flower and they are known in some cases to have paid 12 cents. The quality of the Easter plant stock is excellent. Very little of it has been unduly forced and everything appears to be in except perhaps a few Dorothy Perkins roses which seem to require a longer period or somewhat different treatment to get them in time. The Robert Craig Co. has Tausendschon in fine condition; this variety should be in every grower's collection as it appears to come along without especial care other than is given Crimson Rambler. It appeals to buyers generally on account of its delightful shadings of pink and its quantity of bloom.

NOTES.

Sunday was visiting day at the greenhouses where Easter stock is the specialty. W. K. Harris offers the general public a view of his immense stock of flowering plants on every Palm Sunday. There is no printed invitation sent out but the throng of visitors has increased with each succeeding season until this season when over 15,000 flower lovers passed through the large packing or corridor house which divides the place. This is 305 feet long and 30 feet in width and along the sides of this from end to end was banked the orders that were to be sent out on Monday. It was a most gorgeous sight this mingling of the masses of color from the white of the lily through the various shades of pink of the azaleas and rhododendrons to the rambler roses. The blue hydrangeas were also conspicuous as were the variegated white and green maples. It was a truly magnificent display, far ahead in effect of any of the horticultural shows of recent years. At 10 p. m. the entire force set to work packing, one gang on the wagons and the other on express boxes. All plants here are packed lying down, the pots being wrapped in excelsior and cleated in on cushions of the same. It is astonishing how quickly it is done. M. Mills says they only pack the one way as the men get used to it and there is seldom a complaint from the customer. This has been the best season they have ever had.

Dennis Connor for the Lord & Burnham Co. reports great activity in greenhouse building, both private conservatories and greenhousese for the trade. Geo. Burton will erect a house 27x150. J. W. Ritchey of Lancaster is about erecting three 22x115. Hotbed sash, Mr. Connor says, are in great demand. Several other large commercial ranges are also being figured on but as the deals are not closed no names are given.

The Robt. Craig Co. had no display, having no time to stop packing, which has gone on with a large force for the past two weeks. Here the plants are all wrapped in paper and packed upright on a cushion of excelsior and the top crated. Both growers are very successful with their methods having by long usage grown accustomed to their way and would not change.

Robt. Craig may confine his Isle of Pines operations to a smaller tract than he first intended. K.

Boston.

STOCK PLENTIFUL.

All is now in readiness for Easter week and the general feeling is one of genuine cheerfulness. The market has been better prepared in former years than it is found today; however, this applies to quality alone. The supply in every line bids fair to meet all demands in all quantities, but the splendid stock usually characterizing the local market at Easter is sadly missed. Outside of American Beauty we have no first class rose; this is in a class by itself. Killarney and Richmond have shown a disinclination to appear in the right condition at the right time, and certainly furnish a problem worthy of consideration. Thousands of both varieties are being cut but the ratio of serviceable goods is very close to one per cent. Easter carnations too are far below the standard and much uneasiness is shown concerning this stock. Violets are in prime condition and, while enough will be found to satisfy the trade, prices will undoubtedly soar. Lilies are being kept under cover in spite of a regular call. No fear is felt but that the supply is sufficient to go around. Orchids have been very scarce but promises are made that the market will be well taken care of. This is the one time when this high class flower is indulged in more than at any other. Gardenias and lily of the valley are keeping well before the people and for Easter adornment cannot be surpassed. Many of the retailers have already displayed selections from their Easter plants, and in this department will be found the finest holiday stock ever prepared. In the leading role we find rambler roses, first of which is Dorothy Perkins. Several new varieties are displayed but are not so popular as this. Acacias, bougainvilleas, azaleas of every known variety, cyclamens, hybrid roses and all sorts of pan stock are pleasing in every detail.

NOTES.

A party of 20 members of the Gardeners' and Florists' Club inspected several of the leading commercial growers' establishments April 3. Among the places visited were those of Pierce Bros., The W. W. Edgar Co. and Edgar Bros., all of Waverley. At Pierce Bros. the principal attraction was the great display of lilies and azaleas all in ideal condition for the Easter trade. At the W. W. Edgar Co.'s plant a more varied stock was reviewed, but here too, the main attraction was held by lilies and azaleas with a noteworthy assortment of novelties. At the Edgar Bros. houses the sweet pea crop just coming in was a very interesting spectacle, the first of the kind ever seen by many of the visitors. The party returned home well pleased with its pleasant experiences in the first of the many outings scheduled for the spring and summer months.

The sympathy of the entire trade is extended to the venerable Wm. E. Doyle upon the death of his wife, Katherine E., who passed away after a lingering illness March 29 at their beautiful home at Cambridge. She was born and always lived in the latter city and was married to Mr. Doyle in 1871. Mrs. Doyle was well known for her charity and was prominently identified with many organizations. The funeral took place April 1, and was largely attended by friends including a representative gathering of the leading florists of the city. The floral tributes were beautiful as well as numerous showing the great esteem in which deceased was held. All of the leading tradesmen sent evidences of respect and honor to the bereaved husband.

Philip L. Carbone, the Boylston street retailer, who was appointed by Gov. Guild as assistant to Commissioner Billings to distribute the Massachusetts relief fund through the earthquake stricken district of Italy returned April 1 on the S. S. Ivernia. Mr. Carbone is loud in praising the Massachusetts people for their timely assistance and has been instrumental in distributing $150,000 to the afflicted people. Born in Italy Mr. Carbone was thoroughly familiar with the country and in the course of his work circled the island of Sicily three times. Several relatives met death in the terrible disaster, in the relief work of which Mr. Carbone has given three months of his valuable time. B.

Syracuse, N. Y.

The trade reports a good supply of stock for the Easter business. This out of the way there will be changes and alterations at several establishments. Walter N. Meneilly & Son, 404 Stuart avenue, has the glass for three new greenhouses soon to be erected. Walter Meneilly said he would start work as soon as the Easter rush was over. His firm has four greenhouses and the new ones will be of the same size, 20 by 100 feet.

April 6.—The Easter demand will find all well stocked with goods. P. R. Quinlan's stores are a bower of beauty with all classes of plants, and artistic baskets and hampers.

NOTES.

Bellamy Bros., who succeeded the late L. E. Marquisee on January 1, will move their seven greenhouses from 207 Delaware street to the corner of Onondaga avenue and Cheney street some time after Easter. Mrs. Marquisee has sold the site. The new location is near their residence. Two of the greenhouses will remain where they are. Henry Bellamy was for 18 years foreman for Mr. Marquisee and it was he who developed Marquis, Flamingo and Marchioness carnations. Mr. Bellamy predicts a bright future for Marchioness. At present time all of his seedlings are sold. Mr. Bellamy, through his advertisements in THE FLORIST having found a quick sale for them and received requests from all over the country for flowers for exhibition purposes. Marchioness is a pure white, very fragrant and prolific. The Marquis, a soft pink, has done remarkably well in many places. There has been a good sale for Flamingo, deep red. Mr. Bellamy has a new seedling—No. 96, a bright large pink, with a long stiff stem, four inches across and no sign of bursting. This firm has had a good demand for small brass hanging baskets. A. V. B.

Easter week found Henry Morris very busy with plant and funeral work. "This is the time of year," says Mr. Morris, "if you have both the plant and the funeral work you are busy. There is a growing popularity of plants of all descriptions each year and a smaller demand for cut flowers. Even for the sick in the hospitals many people purchase a prety plant with a fragrant blossom rather than the cut flowers." Mr. Morris has a fine display of pot plants in his windows.

Louis Klein, gardener at the New York state fair grounds on the outskirts of the city, has a century plant that is about to bloom. The stalk is nearly 30 feet high and Mr. Klein finds it difficult to find a place that will accommodate it. A. V. B.

BANGOR, ME.—Mrs. T. Allen will open a new retail store at 9 Hammond street.

SPRINGFIELD, MASS.—Horace C. Smith died at his home, 16 Grove street, April 3.

Greens.

We always have a large stock of **Wild Smilax, Galax, Leucothoes, Dagger Ferns** and all other **Greens** for **Decorations** on hand. We have the best in Philadelphia, and the quality of our stock will speak for itself.

The Leo Niessen Co.

Wholesale Florists, 1209 Arch St., Philadelphia, Pa.

AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

WELCH BROTHERS, 226 Devonshire St. Boston, Mass.

Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

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W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.

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The Wholesale Florists of Pittsburgh,

222 Oliver Ave., PITTSBURGH, PA.

Headquarters for Choice Flowers.

J.B.Murdoch & Co.

714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.

WRITE FOR PRICES.

W. E. McKissick & Bros.

WHOLESALE FLORISTS,

Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

ABSOLUTELY THE BEST POSSIBLE SERVICE.

EASTER VIOLETS and All the Staples.

No Pickled Stock. Prices Right.

McCALLUM CO., Inc. Pittsburg

Pittsburg.

MARKET VERY STIFF.

At this writing the market is very stiff on carnations with roses commanding better prices. Between Palm Sunday and the demand for flowers at the inauguration of the new mayor, the market was left bare of good stock in these flowers on Saturday night. Lilies, which have been so scarce, are now over plentiful with low prices. The flowers could not be better but there are a great many with short stems. There will be a good supply of these for Easter. Violets have tightened up somewhat, and if we have the present quality at Easter this market will see some very fine blooms. Orchids are selling better, indicating that society is coming back to life after laying dormant through Lent. In pot plants there seems to be no scarcity and the quality is fine at the markets. Hyacinths are selling two for 25 cents.

NOTES.

At the Phipps conservatories the display of cinerarias is exceptionally fine. Foreman Jones states that while our American varieties make much the finer shaped plant, those from the other side have the best color. He also has a great many bushy ones, running about four feet high with clusters of very small flowers which are a delight to see. Another novelty here is a Harrisi lily with variegated foliage resembling somewhat Pandanus Veitchi.

A. T. Lorch & Co., DeHaven, is consigning The McCallum Co. some extra fine Winsor carnations; F. H. Westhoff, of the same place, is also sending in some exceptionally fine White Enchantress.

The Pittsburgh Cut Flower Co. is again handling a very large cut of lilies and promise to have them in any quantity for Easter.

The Florists' Exchange is strong on all varieties of good carnations also good American Beauty roses.

J. B. Murdoch & Co. expect to handle a great quantity of lilies and lily of the valley for Easter.

J.

Wholesale Flower Markets

PHILADELPHIA, April 7	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac ..... per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, April 7.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	3 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 2 50
Daffodils	2 00@ 2 50
Lilium Longiflorum	12 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50
Tulips	2 00@ 4 00
Violets, single	25
double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, April 7.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	2 00@ 4 00
" fancy	4 00@ 6 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties

The finest in this Market.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

HIGHTSTON, N. J.—Tracy H. Norton will build a new violet house the coming summer.

DAYTON, O.—W. G. Matthews contemplates a trip this summer to the coast, returning in time to attend the Cincinnati convention.

HOBOKEN, N. J.—A 10-story seed and grain warehouse has just been completed for the American Warehouse & Trading Co. at Tenth and Hudson streets.

AMESBURY, MASS.—J. W. Patterson, of Mt. Prospect cemetery, is increasing the size of his greenhouse, in which he grows flowers and plants for visitors and lot owners.

EASTON, PA.—D. Burrowes Nevin has purchased the greenhouses on College Hill and the store on South Fourth street from Arthur L. Raub and has taken possession.

ASHTABULA, O.—Thirty-six new greenhouses are to be built in this place during the comming summer. The following firms are the builders: R. W. Griswold, Jr., will erect 12; Dunbar & Hopkins, 10; Griswold Greenhouse Co., 6; Adams Bros., 5; Gallup Bros., 3.

RICHMOND, IND.—The E. G. Hill Co. is opening a retail store in the city. It is probable that, though opened for Easter, it will be continued. The company intends to use its east end plant for the growing of plants for the retail trade and its wholesale business will be cared for at the west side houses. It is probable that several of the east side houses will be removed to the west side soon.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Toronto, Ont.
WITH HIGHEST GRADE ARTISTIC WORK
Dillemuth FLORIST
Can be relied on to fill all mail, telegraph or cable orders.
438 Spadina Avenue.
Long Distance Phone Main 2409

Toronto, Can.
Only the Best
Dunlop's
Canada's Best Known and Most Reliable Florist.
96 Yonge Street.
We Deliver Anywhere in Canada and Guarantee Safe Arrival.

Kansas City, Mo.
WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
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Will fill your orders for designs and cut flowers in
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KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

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THE LEADING FLORISTS OF THE NORTHWEST
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Apl. 11, Pennsylvania, Hamburg-New York.
Apl. 13, Batavia, New York-Genoa.
Apl. 13, Noordam, New York-Rotterdam.
Apl. 13, Kaiser Wilhelm der Grosse, Bremen-N. Y.
Apl. 13, Carmania, Liverpool-New York.
Apl. 14, Main, Baltimore-Bremen.
Apl. 14, Alice, New York-Trieste.
Apl. 14, Russia, New York-Libau.
Apl. 14, Merion, Liverpool-Philadelphia.
Apl. 14, Mauretania, New York-Liverpool.
Apl. 14, Oceanic, New York-Southampton.
Apl. 14, Adriatic, Southampton-New York.
Apl. 14, Lake Champlain, Liverpool-St. John.
Apl. 15, Deutschland, Hamburg-New York.
Apl. 15, Canopic, Genoa-Boston.
Apl. 15, Vancouver, Liverpool-Portland.
Apl. 15, Barbarossa, Genoa-New York.
Apl. 15, Martha Washington, Trieste-New York.
Apl. 15, Grampian, Boston-Glasgow.
Apl. 15, Slavonia, New York-Trieste.
Apl. 15, Oscar II, New York-Copenhagen.
Apl. 15, La Provence, New York-Havre.
Apl. 16, Menominee, Philadelphia-Antwerp.
Apl. 16, Arabic, Liverpool-New York.
Apl. 16, Virginian, St. John-Liverpool.
Apl. 16, Victorian, Liverpool-St. John.
Apl. 16, Italia, Naples-New York.
Apl. 17, Kroonland, New York-Antwerp.
Apl. 17, Vaderland, Antwerp-New York.
Apl. 17, Cymric, Liverpool-Boston.
Apl. 17, Romanic, Boston-Genoa.
Apl. 17, Dominion, Portland-Liverpool.
Apl. 17, Lake Manitoba, St. John-Liverpool.
Apl. 17, Cleveland, New York-Hamburg.
Apl. 17, Roma, New York-Naples.
Apl. 17, New Amsterdam, Rotterdam-New York
Apl. 17, Prinzess Irene, New York-Genoa.
Apl. 17, Prinz Friedrich Wilhelm, Bremen-N. Y.
Apl. 17, Indiana, Naples-New York.
Apl. 17, Columbia, New York-Glasgow.
Apl. 17, Caledonia, Glasgow-New York.
Apl. 17, St. Paul, New York-Southampton.
Apl. 17, St. Louis, Southampton-New York.
Apl. 17, Haverford, Philadelphia-Liverpool.
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571 Fifth Ave., Windsor Arcade,
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Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
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Order your flowers for delivery in this section from the
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C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

TAMPA, FLA.—The Reliable Seed Co. has been incorporated.

GREEN peas, paragraph 258, have been reduced in Payne bill from 30 cents per bushel to 25 cents.

THE big mail order day this year in the catalogue trade was March 12 with John Lewis Childs.

THE Department of Agriculture press bureau now reports 102 samples of seeds which it considers misbranded out of 1,471 samples tested.

RED CLOVER fields have probably been hurt by the fall drought and winter killed by the freezing and thawing during the past mild season.

ONE hundred thousand tons of Soja beans were shipped from Manchuria to England within two years. They cost less than three-fourths of a cent per pound in the country of production.

FREE SEED distribution will be increased next season from 36 million packets sent out this season to 60 millions, so it is said, and contracts have been made to cover the bulk seed needed for same.

CHICAGO.—Onion sets rule easier this week with reds and yellows at $1.75 and whites at $3 to $3.10.—Contract prices on the board of trade April 6 for grass seed were noted as follows: Prime timothy, $3.80 (nominal), white clover, $16.

THERE are no less than five market gardener mechanics throughout the country who think they have solved the problem of harvesting onion sets, and we look forward with much interest to the practical tests of the various machines during the coming summer.

THE illustration on this page was prepared from a photograph taken at the ground of Watkins & Simpson, the noted English seed growers. Many of this firm's varieties are among the best of their kind and well known to the trade, both here and in England.

NEW YORK.—Henry Nungesser sailed for Paris April 6.—The Bermuda steamer Prince George arrived April 5 with a large consignment of lily blooms.—The death of William Hagemann, the veteran bulb dealer, is recorded in our obituary column, page 537.—Visitors: J. C. Vaughan and wife, Chicago.

Free Seeds and Government Samples.

RESOLUTIONS OF WHOLESALE SEEDSMEN.

At the meeting of the board of directors of the Wholesale Seedsmen's League, April 1, the following resolutions were offered and adopted and on the following day mailed to the President of the United States and the Secretary of Agriculture:

Resolved: That the board of directors of the Wholesale Seedsmen's League deplore the constantly increasing tendency to swell the amount expended by the United States Department of Agriculture for the purpose of purchase and distribution of common varieties of garden seeds.

The board respectfully suggests to the President of the United States and the Secretary of Agriculture that a considerable saving or retrenchment in the expenses of the government could be made by the abolishment of such appropriation without in any way impairing the effectiveness of the Department of Agriculture; and that a further considerable saving to the government could be effected by relieving the post office department of the expenses incurred in the carrying and distribution of the enormous quantity of franked seeds sent out by the Department of Agriculture.

The board is of the opinion that the free distribution of common varieties of garden seeds and field seeds is of no practical value to the farmers and gardeners of this country, but, to the contrary, is a downright injustice and restraint of trade inflicted upon the seed business.

The board believes that a continuance of this practice certainly does not tend towards the best development of the nation, as it encourages a dependence upon the government, which is entirely foreign to the feelings and patriotism of the American people.

Resolved: That while the Wholesale Seedsmen's League as an organization, and its members individually, raise no objection whatever to the fair testing of seeds of grasses, clovers, and other farm seeds, for the purpose of determining if they are adulterated or misbranded, the association and its members do object to the methods of the agents of the department of Agriculture of the United States in obtaining such samples for test, as being unfair to the seed merchants and growers, in that the merchants and growers have no knowledge that that samples so reported upon actually came from them.

It seems to the Seedsmen's League but fair that the agent obtaining the samples should leave the merchant or grower a portion of that identical sample under governmental seal, as provided in the case of testing milk, fertilizers, etc., under the laws of the state of New York and other states.

BURNET LANDRETH, Sec'y.

SEED GROUNDS OF WATKINS & SIMPSON, ENGLAND.
Alyssum Maritinum Little Dorritt Just Before Cutting for Seed.

Bulbs for Baltimore Parks.

Sealed proposals for the furnishing of tulip bulbs for the Board of Park Commissioners of the city of Baltimore, Md., marked "Proposals for tulips for the park department," addressed to the Board of Awards, care of the City Register, City Hall, Baltimore, Md., will be received at the office of the City Register, City Hall, until 11 a. m., April 21, 1909, in accordance with specifications which can be obtained at the office of the Board of Park Commissioners, Madison avenue entrance to Druid Hill Park, Baltimore. A certified check of the bidder for $200 on a clearing house bank, drawn to the order of the mayor and city council of Baltimore, must accompany each bid. The successful bidder will be required to give bond in the usual form in the amount of the contract for the faithful performance of his agreement. The board of awards reserves the right to reject any or all bids.

WILLIAM S. MANNING,
General Superintendent.

Results in Hybridization of Peas.

The Gardeners' Magazine for March 27 has an illustrated article on hybridization of peas which is of great interest to those working with this important vegetable. Various points are brought out in regard to habit, color of flowers, length of vines, etc., and the results of various crosses given. It is noted that frequently round and wrinkled

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Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
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Peas AND Beans
Alfred J. Brown Seed Co.,
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C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

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Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

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Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

peas are found in the same pods on some of the seedlings. The article is well worth perusal by the hybridizer as it will save him much disappointment and useless work as well as render the results less uncertain.

Sesame Seed.

The following information concerning sesame seed, where produced and where consumed, is furnished by Consul Ernest L. Harris, of Smyrna:

Sesame seed is one of the staple products of the Turkish dominions, and is exported to Europe in large quantities. Smyrna and the neighboring districts produce annually about 50,000 sacks of 100 kilos (220 pounds) each; Rhodes and the islands of the archipelago, some 30,000 sacks.

Smyrna seed, which is white in color, containing only about 10 per cent of yellow sesame, sells a cent or two more per oke (2.82 pounds) than the seed from other districts, as the oil extracted is clear and has a better smell and taste. Sesame seed from Rhodes and the islands of the archipelago is heavy in weight and gives the largest yield of oil. Indian sesame seed, although inferior to the Turkish product in appearance, quality and yield of oil, finds a market in Europe when the Turkish crop is small and prices rule high.

A large quantity of the crop is used locally in the preparation of "taheen," which is the crushed seed mixed with the oil. Taheen is chiefly used in the preparation of "halva," a sweetmeat consumed largely throughout Turkey in the winter season. Of late years taheen is being exported to the United States, where it is used probably in the manufacture of halve or eaten raw by natives of these regions living in the United States.

The importing countries are chiefly Russia, Germany, Holland, Austria-Hungary and France. The conditions of sale are cash against documents, for seed containing not more than 4 per cent of foreign matter, gross for net, in double sacks, f. o. b. shipping port.

Several Smyrna exporters sell for delivery. This manner of transacting business sometimes occasions great losses to the exporters. Last year, for instance, the crop was so small that the market price was nearly 50 per cent higher than average years, so that merchants had to lose heavily in fulfilling their contracts.

Imports.

During the week ending April 3, imports were received at New York as follows:

F. B. Vandegrift & Co., 52 cases plants, 24 cases bulbs.

Maltus & Ware, 28 cases plants, nine cases bulbs.

C. F. Meyer, five cases plants.

Wm. Elliott & Sons, five cases plants.

Vaughan's Seed Store, four cases plants, six bags seed.

Stumpp & Walter Co., five cases trees.

J. M. Thorburn & Co., 42 bags seed.

McHutchison & Co., eight cases seed.

H. F. Darrow, one bag seed.

To others, 421 cases, 49 pkgs. plants, 58 pkgs. trees and shrubs. 21 cases bulbs, 1,061 bags clover seed, 1,040 bags, seven cases seed, one case orchids.

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; 1/8-oz. $1.50 1/4-oz. $2.50; 1/2-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; 1/8-oz. 60c.; 1/4-oz. $1.00; 1/2-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Landreths' Seeds
BLOOMSDALE FARMS
BRISTOL, :: PENNA.
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PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Rogers Brothers,
SPECIALTY GROWERS.
Purest Strains GARDEN PEA and BEAN SEED.
For the Wholesale Trade. ALPENA, MICH.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

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SEEDS, BULBS AND PLANTS.
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KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
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The Everett B. Clark Seed Co.
Growers for the Trade,
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of Double Branching Stocks is exceptionally true.
About 90 per cent. Double Flowers
In colors........1/8-oz. 60c; oz. $4.00
Pure white........1/8-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Jay J. Utter, BRAVO. MICH.
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

LESLIE F. PAUL of the Colorado Agricultural College, Fort Collins, strongly recommends sterilization of soil for seed sowing for tomatoes and other plants.

THE Greenhouse Vegetable Co. of Chicago has been incorporated to deal in vegetables, truck and other garden produce with a capital of $2,500. The incorporators are Robt. F. Dilger, Lorenz Becker and Paul Nanzig.

Planting Cucumbers and Tomatoes.

Where cucumbers or tomatoes follow lettuce, and the lettuce is entirely removed before the new plants are set, it is best to watch carefully so as to have the crop come off, leaving the ground moderately moist. It is poor practice to cut lettuce from dry beds; on the other hand, if the ground is left in a soaking wet condition, it means a wrong start for the new crop. If the ground is moderately moist, the beds should be thoroughly worked up. The plants should be moist in their pots, and, after planting, each plant should be watered separately to settle the earth around it and after that the hoe should be used instead of the hose. It is of great importance to build up a powerful root system before leaves and vines, and the way to get it is to force the young plants to hunt for food and moisture. Water only enough to moisten the air, not the ground, and hoe once a week until fruiting commences.

MARKETMAN.

Cucumbers and Tomatoes in England.

SELECTION AND FERTILIZATION.

Selection and fertilization of both cucumbers and tomatoes are necessary if the best results are to be obtained and fruits of good shape secured. All credit must be given the hybridizers but the market growers work along different lines. The plants are closely watched and probably some individuals will show a different and earlier type both in habit and early fruiting and if the first cuts are good these are saved for seed. All seed bearing flowers should be fertilized, nothing should be left to chance, and muslin is used to protect the flowers from insects. Stocks carefully kept up in this way do not degenerate. For many years Rochfords have been sending out their market cucumber but it has been kept good and is today the best, not only for Covent Garden, but the market generally. Other growers have crossed and recrossed it and have their own selections but the true stock is still kept up.

Tomatoes degenerate sooner than most other crops and high culture and selection are necessary to maintain the varieties true. Cropping is of course the principal point for a market grower, but good, shapely fruit is also necessary. We always disbud the flower spikes early when saving seed; not so much with a view of large fruit, but to obtain perfection of the individuals saved. We do not need new varieties, we have plenty of them. What we do need is a good selection of those we already have. Harking back to cucumbers one of the worst trials we have in seed saving is the tendency to barrenness of nearly all strains.

S.

TO THE TRADE

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GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

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Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

The Horse in the Greenhouse.

In most of our modern vegetable houses a horse can be used to excellent advantage. After a house has been cropped in lettuce for months, a thorough turning up of the ground with a horse tool is the best possible preparation for cucumbers or tomatoes. For this purpose nothing is better than a Planet jr. plain cultivator, or a similar tool, and the operator should not spare his trips. If the ground is in proper condition as regards moisture, cutting the beds three to four times is not too much and time well spent. In houses with cement walks it may be necessary to take off the horse's shoes, to avoid damage to walks, but this little expense is easily recovered by the speedy and thorough work done. The best practice is for one man to lead the horse and another to handle the tool. Such a turning over will correct numerous soil troubles that accumulate under glass.

MARKETMAN.

Screens for Cabbage Seed Beds.

A year ago the growers of cabbage plants suffered severe losses from the ravages of flea beetles which ate little round holes in the seed leaves, causing them to shrivel and the plants to die, says S. A. Johnson of the Colorado Agricultural College. The beetles causing this injury are tiny, black insects, which have the habit of dropping to the ground, or jumping from the plants when disturbed. They delight in bright sunshine and the most severe injury is done on warm, sunny days. Turnips and radishes are also attacked. Some years it is almost impossible to get a stand of these vegetables.

In the open garden some relief can be obtained by dusting the leaves of the young plants with air-slacked lime or, better, with insect powder. The latter remedy is rather expensive, but a very good one in small garden patches. When cabbage plants are raised in beds, either in hotbeds or the garden, the beetles may be kept from them by the use of screens made from cheese cloth. A light wooden frame should be made, extending about two feet above the surface of the bed. The cheese cloth is stretched over this, extending to the ground on all sides. The edges that touch the ground may be lightly covered with earth to prevent the beetles from finding their way beneath. The cost of this method of protection will be in the neighborhood of 20 cents for each 1,000 plants raised.

VEGETABLE PLANTS

For Transplanting. 1000

Cabbage, Wakefield and Succession.....$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100: 3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain .....40c per 100 3 00
Chinese Giant and Cayenne...50c per 100
Tomato, Earliana, Chalk's Jewell, and Early June Pink..... 30c per 100 2 00
Stone, Favorite and Paragon, small plants 1 00
Celery, Small for transplanting White Plume and Golden Self Blanching..... 1 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

NEW CANNA

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A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

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HOW TO GROW THEM

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The Best American Book on the Subject.

170 Pages. 29 Illustrations.

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324 Dearborn St., CHICAGO.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points April 3 were as follows: New York, cucumbers, 60 cents to $1 per dozen; lettuce, $1 to $2 per strap; mushrooms, 25 to 55 cents per dozen; mint, 40 to 50 cents per dozen bunches; radishes, $1.50 to $2 per 100 bunches; rhubarb, $2 to $4 per 100 bunches; tomatoes, 6 cents to 15 cents per pound. Chicago, cucumbers, $1.50 to $3 per dozen; head lettuce, $3 to $3.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 15 to 25 cents per

Seasonable Flower Seeds

10 per cent special CASH DISCOUNT. On orders over $2 for Flower Seeds if cash is enclosed, **10 per cent.** The discount does not apply to Asparagus Seed. Cash discount on this is 2 per cent.

Single Spray Asparagus Plumosus Nanus.

ASPARAGUS PLUMOSUS NANUS, northern greenhouse grown seed. Per 100 seeds, 50c; 250 seeds, $1.00; 1,000 seeds, $3.50; 5,000 seeds, $16.25.

ASPARAGUS SPRENGERI, 100 seeds, 15c; 250 seeds, 25c; 1,000 seeds, 75c; 5,000 seeds, $3.25.

ALYSSUM VAUGHAN'S LITTLE GEM, best dwarf strain in the world. Tr. Pkt., 10c; oz., 30c; ¼ lb., 75c.

ASTER, QUEEN OF THE MARKET, white, pink, crimson, scarlet, light blue, dark blue, each, trade pkt., 10c; ¼ oz., 20c; oz., 50c.

ASTER, CARLSON (Early Flowering Branching), white, rose-pink, lavender, Marquis-pink, violet-blue, daybreak pink and mixed, each, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

ASTER, BRANCHING, white, rose-pink, lavender, purple, dark red and daybreak pink, each, trade pkt., 10c; ¼ oz., 30c; oz., $1.00.

ASTER, VAUGHAN'S UPRIGHT BRANCHING WHITE, re-selected stock, trade pkt., 25c; ¼ oz., 40c; oz., $1.50.

CANDYTUFT, GIANT HYACINTH-FLOWERED (Improved Empress), trade pkt., 5c; oz., 20c; ¼ lb., 50c.

CASTOR BEAN, Zanzibar Mixed, trade pkt., 5c; oz., 10c; ¼ lb., 20c.
Zanzibar Enormis, trade pkt., 5c; oz., 15c.
Panormitanus, new, trade pkt., 10c; oz., 25c.

CENTAUREA CYANUS, double blue Cornflower, trade pkt., 10c; ½ oz., 30c; oz., 60c.
Double white Cornflower, trade pkt., 10c; ½ oz., 40c; oz., 75c.

COBEA SCANDENS, purple, trade pkt., 10c; oz., 30c; ¼ lb., 90c.

COSMOS, EARLY FLOWERING WHITE OR PINK, northern grown, each, trade pkt., 10c; oz., 60c.

DIANTHUS HEDD, SNOW QUEEN, best double white, trade pkt., 10c; ½ oz., 30c.

MOON VINE, white seeded, trade pkt., 10c; oz., 30c.

MIGNONETTE MACHET, selected stock, trade pkt., 10c; ½ oz., 25c; oz., 50c.

MIGNONETTE GOLIATH, extra fine, trade pkt., 15c; ¼ oz., 25c; oz., 80c.

NASTURTIUM, VAUGHAN'S SPECIAL MIXTURES, tall or dwarf, each, oz., 10c; ¼ lb., 20c; lb., 60c.

PHLOX DRUMMONDI, large-flowering, white, pink, scarlet, crimson, yellow, each, trade pkt., 10c; ¼ oz., 20c; oz., 60c. Mixed, trade pkt., 10c; ¼ oz., 15c; oz., 50c.

PETUNIA, LARGE FLOWERING SINGLE, "Vaughan's Best" mixture, 1,000 seeds, 50c.

PRIMULA OBCONICA GRANDIFLORA, "Ronsdorf strain," white, rosea and mixed, each, trade pkt., 50c; 1/32 oz., $1.00.

STOCKS, GIANT PERFECTION (cut and come again), white, sky-blue, pink, scarlet, dark blue, each, trade pkt., 25c; ⅛ oz., 40c; oz., $2.50.

STOCKS, PRINCE BISMARCK, new, white, fine for cut, trade pkt., 25c.

STOCKS, WHITE COLUMN, extra, trade pkt., 25c; ⅛ oz., 60c.

VERBENA, "VAUGHAN'S BEST" MIXTURE, trade pkt., 25c; ¼ oz., 50c; oz., $2.00.

Sweet Peas

If to go by mail add 8c per pound for postage.

WHITE—White Spencer, regular stock, oz., 15c; ¼ lb., 40c; lb., $1.50.
Nora Unwin, oz., 10c; ¼ lb., 25c; lb., 80c.
Dorothy Eckford, ¼ lb., 10c; lb., 30c; 5 lbs., $1.25.
Dorothy Eckford, re-selected, oz., 50c.

LAVENDER—Lady Grisel Hamilton, ¼ lb., 10c; lb., 25c; 5 lbs., $1.10.
Mrs. Walter Wright, ¼ lb., 15c; lb., 45c.

LIGHT PINK—Bridesmaid, ¼ lb., 15c; lb., 40c.
Gladys Unwin, oz., 10c; ¼ lb., 20c; lb., 50c.
Countess Spencer, var., oz., 15c; ¼ lb., 40c; lb., $1.25.

ORANGE PINK—Button's Pink, ¼ lb., 15c; lb., 50c.
Helen Lewis, ¼ lb., 20c; lb., 60c.
Evelyn Byatt, ¼ lb., 15c; lb., 40c.

RED—King Edward VII, ¼ lb., 15c; lb., 40c.
Queen Alexandra, ¼ lb., 15c; lb., 50c.

YELLOW—Primrose Spencer, oz., 15c; ¼ lb., 35c; lb., $1.25.
Hon. Mrs. Kenyon, ¼ lb., 10c; lb., 30c.

PINK AND WHITE—Florence Frazer, ¼ lb., 15c; lb., 40c.
Blanche Ferry, ¼ lb., 10c; lb., 20c.

For other varieties, not mentioned, see our **"Book for Florists,"** sent free to commercial florists.

New York. **Vaughan's Seed Store,** **Chicago.**

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

VAN ZANTEN BROTHERS

Royal Netherlands Bulb Nurseries and Export Trade.

HILLEGOM, HOLLAND.

Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA, care of Messrs. Maltus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

Wanted To contract a few thousand 3-in. pot grown Dahlia roots this summer, party having experience, please quote. Address

Key X74, care American Florist.

"BULBS THAT BLOOM"

BETTER GLADIOLI THAN YOU HAVE EVER SEEN—YOU CAN GROW THEM.

Cedar Acres Gladioli command in the cut-flower market a price six times as high as the regular market rate, because the flowers are larger and finer than any procurable elsewhere. With my bulbs and cultural directions you can grow the same kind. They are as easy to raise as potatoes.

The Gladiolus has become the queen of the garden. From the old-time scraggly spike, the Gladiolus has developed into a magnificent and stately plant, bearing a wealth of of color as delicate as the finest orchid. For cut-flowers, they are unequalled in beauty, and last for nearly ten days, gradually unfolding.

My new seedlings including the famous Harvard, Kathryn, and Fireside, have been awarded numerous medals and certificates of merit.

BOOKLET FREE, showing Harvard in full colors, and many other new varieties, with reliable information about each one. **Send for it today.**

B. HAMMOND TRACY,

Cedar Acres Box 17. **WENHAM, MASS.**

pound; radishes, 40 to 60 cents per dozen bunches; asparagus, $2 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 to 75 cents per dozen bunches; rhubarb, 6 to 10 cents per pound, extra fancy, 14 cents per pound; French endives, 25 to 40 cents per pound. Kansas City, cucumbers, $1 to $2 per dozen. Cincinnati, cucumbers, $1 per dozen; mushrooms, 50 cents per pound. Boston, cucumbers, $7 to $8 per box.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y. Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

WASHINGTON, D. C.—Peter Bisset is starting a nursery.

THE Payne bill, paragraph 260, is reported to have been amended in the house, admitting evergreen seedlings free, formerly $1 per 1,000 and 15 per cent ad valorem.

HOUSTON, TEX.—Henry Zendler, a landscape gardener, blew his brains out on the porch of his residence on Cleveland street March 20. His invalid wife was in the house at the time.

PAPERS incorporating the Home Planters Association of Rochester were filed in that city, March 26, with the secretary of state. Harry Bartlett Phillips, Stuart Hamilton and Henry E. Gandy are directors.

THE special agent in charge of the Hawaii Experiment Station at Honolulu says there is an opening for a nurseryman in Hawaii. The supply of material for starting various crops is being done temporarily by the station, but this will be discontinued entirely as soon as the matter is taken up by a commercial nurseryman.

A MACHINE for cutting sod is figured and described in the Gardeners' Chronicle. It is worked by two horses and the knives may be arranged to cut the sod to any required size or thickness far more neatly and evenly than can be done by hand-worked sod cutters. It should be very useful when large quantities of sod are cut and the sward is sufficiently level to allow of its use.

SAN FRANCISCO, CALIF.—The nurseries here are reporting a very brisk season, nearly all conifers, evergreen and deciduous trees and shrubs, also outdoor palms of the larger sizes, being cleaned out entirely. The landscape gardeners have been having a very busy time of it lately. Owing to the long continued rain, very little preparatory work had been done during January and February, and consequently everything had to be done in a very short space of time.—P.

Pending Change in Nursery Tariff.

Paragraph 260: "Stocks, cuttings or seedlings of Myrobalan plum, Mahaleb or Mazzard cherry three years old or less, $1 per 1,000 plants."

This is the only change which the new tariff bill (H. R. 1438) gives the nursery interests.

Employers' Association of Landscape Foresters and Com. Entomologists.

On Monday, March 29, at a meeting held in the office of the Munson-Whitaker Co., Flat Iron building, New York, a new organization had its birth which will be known as the Employers' Association of Landscape Foresters and Commercial Entomologists.

The rules adopted by the society are very stringent, and, as indicated by its name, is exclusively for employers actively engaged in the business and able in every way to qualify in the practice of scientific tree surgery and commercial entomology, and thus the clients engaging the services of a member of the association can feel that his standing and qualifications are such as to establish a guarantee as to his ability in his profession.

Its objects are to promote good fellowship and individual improvement, and, as a body, to fight the "tree butchers" and fraudulent dopers, who are everywhere mutilating trees and imposing upon the public by their poor work which has made the formation of such a society an absolute necessity, and it is hoped that with such an organization much will be done in advancing the interest of the public, through the members and press, in the protection of our beautiful trees from diseases and the destructive work of insect pests by scientific treatment, thus placing the science of tree surgery and commercial entomology on a higher plane.

John T. Withers.

President-Elect Employers Association of Landscape Foresters and Com'l Entomologists.

The following charter members were enrolled: John T. Withers, Jersey City, N. J., president; James E. Whitaker, Boston, Mass., vice president; F. A. Bartlet, Stamford, Conn., secretary-treasurer; H. L. Frost, Boston, and Chester L. Whitaker, New York, examining committee; Lewis H. Wise, Jersey City, and G. H. Allen, New York.

Another meeting will be held some time in April to complete the organization. A special meeting will be called by the president in the near future to enroll new members. A number of applications have already been received. A convention will be held annually to discuss scientific matters in connection with the profession and to enlighten the public in the care and preservation of our beautiful trees.

After the meeting a banquet was held in the Barn room at Mouquin's, Sixth avenue. After the genial president had welcomed the guests he introduced H. L. Frost, a man of few words but to the point, as toastmaster, who very ably filled that position. Dr. George H. Stone, Ph. D., botanist and pathologist of the Massachusetts Agricultural College, Amherst, Mass., was the chief speaker of the evening and gave some interesting reviews in connection with his experience in the use of wood preservatives in the treatment of cavities. Addresses were made by Leonard Barron, editor of the Garden Magazine; W. E. Maynard, editor of the Gardeners Chronicle of America; H. L. Jones of Country Life in America; George H. Wyckoff, of the Interstate Chemical Co., Jersey City, and W. B. Pratt of Scalecide fame, gave interesting talks on the value of oils and leads for the destruction of our insect enemies. Mr. Wyckoff's partner, Mr. Rose, entertained the gathering with his sense of humor, showing evidence of another Mark Twain.

John F. Marion, a leading counselor-at-law of Jersey City, who has been very much interested in the development of parks and playgrounds in his city, made interesting remarks, and Addison T. Hastings, city forester and park superintendent of Jersey City, outlined the extensive work he is doing in that city in a very able manner, interspersing his talks with occasional bits of humor. Alexander Guttman, the well known wholesale florist, made a very complimentary speech in regard to the members of the new association, and contributed much to the spirit of the occasion by his liberal donation of the table decorations which consisted of a large plaque of Killarney, Richmond and Bride roses, and another of Victory carnations placed at opposite ends, with beautiful fronds of ferns, pansies and narcissi strewn artistically over the table with a beautiful boutonniere at each plate.

In respect to the dignitaries the lateness of the hour at which the banquet ended will not be mentioned.

K.

A Plea for Hardy Perennials in Parks.

In his paper on "Hardy Perennials and their Various Uses" read before the Gardeners' and Florists' Club of Boston, March 16, Robt. Cameron, superintendent of Harvard University Botanic Garden, Cambridge, Mass., made a strong plea in favor of herbaceous plants and their extended use in our parks and public gardens. His paper reads in part: You will all admit that herbaceous perennials are important in garden work. Well, the question may be asked, if they are so important, why don't we find them used more liberally in such places as parks, large rural cemeteries and other large grounds? To answer this question satisfactorily it would take a very long paper indeed. However, it may not be amiss to give a few of the reasons why they are not oftener seen in such places.

WHY THEY ARE NOT USED.

You are all well aware that when any large piece of work such as a park or large cemetery is contemplated, the first thought that comes to the commissioners or trustees of such places is, who is the best landscape gardener (or the more highly sounding name landscape architect) to take charge of this important work? The landscape architect of today has some training in how to make plantations of trees and shrubs and the right proportions to give them. In his plantations of trees and shrubs he plants acres, but when he comes to hardy perennials he measures his masses by feet or yards. In his meager information of hardy perennials he has not been able to grasp the many ways in which these hardy subjects can be used.

Another reason is that it takes many years to tell whether his plantations of

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige, Mme. Plantier, Alfred Colomb, Perle des Blanches, Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.

Tausendschon, the great new climber $20.00 per 100
Crimson Baby Rambler..... 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

trees are correct; it takes a few years to know whether shrubbery is grouped correctly or not, but the first year shows the work of planting and growing hardy perennials satisfactorily; hence the landscape architect avoids criticism by using these plants as little as possible. Sometimes it is the fault of the superintendent or the person in charge. He may have been trained in early years as an engineer, a clerk in an office, or as we have had them in Cambridge, in charge of our parks, newspaper reporters. Men like these lack the right training and are not in sympathy with this work; indeed do not know how to plant correctly. These are a few of the reasons, but no doubt some of you can think of many more.

CORRECT PLANTING.

A person who is going to use hardy perennials ought to know his plants, not only their names, but the height, habit and color of the flowers and foliage and the most likely places they will grow in. He also ought to have good taste to arrange the various plants so that the flowers that are in bloom at any given time shall group well in form and color. It also requires study and forethought to get the best and most suitable plants for the different seasons.

The planting that has been done in parks of perennials has been so insignificant and out of proportion with other things, that we are in sympathy with those who have said they were out of place. Instead of using a dozen plants hundreds or even thousands of one kind of plant ought to have been used to bring about striking effects that would make impressions never to be forgotten. In nature, we find the plants liberally not in little patches but by the acre. You all remember, no doubt, the fields of golden rod, of asters, and many other plants which can easily be recalled to your memories. Why not create such planting in our parks? Not in borders but naturalize them in suitable places and make large impressive pictures. If one objects to foreign plants, there is no country in the world that has more beautiful plants than we have and there are any quantity that can easily be naturalized.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2½ ft.	$2 00	$3 75	4 ft.	$4 00	$ 7 00
3 ft.	2 50	4 50	5 ft.	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
18-22 in.	20-22 in	$3 00	$5 50	18-22 in.	30-32 in	$5 50	$10 00
22-24 in.	22-24 in	4 50	8 00	22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c; per doz., $4 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,
84-86 Randolph St., CHICAGO. **14 Barclay St., NEW YORK.**
Greenhouses and Nurseries: Western Springs, Ill.
Book for Florists, Spring Edition, Now Ready.

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft.	1.75
2½ to 3 ft. high	2.00
	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds, 18 to 24 in. high	$ 75.00
12 to 14 buds, 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better	$100.00 per 1000 $11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft. high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

THE STORRS & HARRISON CO., Painesville, O.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Roses** Dwarf, Climbing, Tree and Ramblers.

CLEMATIS, and all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. .**

PRIVET DWARF CHINESE

Fine bushy stock, 3 to 4 ft.,
$15.00 per 100.

We have several thousand **SPECIMEN SHRUBS** of best Spireas, Privet, Honeysuckle, Lilacs, Elder, Forsythia, and many others for immediate effect.

VAUGHAN'S SEED STORE, P. O. Box V, **CHICAGO**

Methods of Propagating.

Jackson Dawson of the Arnold Arboretum was unable to be present at the last of the season's lectures of the Massachusetts Horticultural Society March 6. He was to speak on "Methods of Propagating Plants," but owing to illness was compelled to send in his paper to be read by Secretary W. P. Rich. His paper dealt with practical points of value. Seeds, it stated, should always be selected with care, and different seeds require different treatments. Those of the plum and peach, for instance, will not germinate until they have been frozen hard. Many tree seeds are packed in dry earth all winter, and some of the hard kinds must be soaked in warm water before planting. Only fresh seed should be used.

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

Soil and situation are next to be considered. A deep rich loam well manured and as free from weeds as possible should be selected, sheltered from north and west winds. Planting in rows is preferable to broadcast sowing. Large seeds should be planted twice the depth of the seed—say an inch for beech or oak and two inches for hickory. The soil should be neither dry nor wet. Many tree seeds will not come up until the second year. Red and white maple seeds should be sown as soon as gathered and if well cared for will come up in one year. When seeds are sown in the fall, as soon as the grounds is frozen, they should be covered with hay or pine needles. As soon as the plants are up they should be cultivated and kept free from weeds. All watering should be stopped after September 1 to harden the wood. Ploughing between the drills is helpful.

Seeds just arrived from foreign stations should be treated with unusual care. If mildewed, they should be treated with a weak solution of copper sulphate. Nearly all deciduous plants should be transplanted after the first year. Box planting is a good system because it facilitates handling of the plants. About April put the boxes in frames where they will get the morning sun. In winter they can be kept in good condition if covered with sphagnum moss or pine needles. The critical time with young conifers is the first three weeks before they have a crown bud. Hot sun and excessive rain kills thousands of trees. After August they will need very little special care.

The propagation of kalmias, rhododendrons and plants of this class is especially difficult, and should not be attempted except in a greenhouse. They must be transplanted frequently. A sprinkling of hot sand will destroy fungi without destroying the plants. Many shrubs and trees can be grown from cuttings or from pieces of the root. The elm is an example of the latter class. The willows root readily from wood cuttings. Many of the roses it is almost impossible to grow from hard wood. Many plants root easier from soft cuttings in summer than from hard wood cuttings. Shrub cuttings should be five or six inches long, but willows may be longer. If the ground is well sheltered cuttings may be planted out in frames or nursery rows in the fall. The soil should be good and deep and well watered. By the end of the second year they should be ready for transplanting.

In growing soft-wood cuttings boxes or frames should be used, and need much more care than the hard ones. The earlier rooted plants can be set out in frames in spring and will be in good shape by winter if well cared for. Plants with stolons or underground stems, can be propagated from cuttings. Many plants wanted on their own roots can be had by layering. Layers are branches of plants cut partly through and buried in soil. They will then root at the eyes or place of cutting. By twisting the branch the flow of sap can be prevented. The sap must be regulated. Almost any branch or vine can be grown this way. Grapes may be cut off from the parent plant in the fall, but maples must be kept on the main plant two years.

Mr. Dawson's paper did not go into all the methods of grafting, but explained some of its features. All woody plants may be grafted. Old orchards may be made vigorous by grafting, although generally grafted plants do not live as long as plants on their own roots. There are some 50 methods of grafting, but these are modifications of some five or six ways. Scions should be cut before the sap is well started, and grafting should be done in the spring. Scions should be of well-ripened wood at least one year old. The paper described the various technical processes of inarching, grafting by approach, tongue grafting, bottle grafting, cleft grafting, side grafting, etc. All methods of grafting can be used on roots. Budding consists of taking a bud from one plant, with a piece of bark, and inserting it in a cut in another plant. Most nurserymen propagate more by budding than by grafting.

CANNAS

	Per 100
10 varieties, 3-in. pots, April 25	4 00
Alternantheras, red and yellow	2 00
Coleus, 10 varieties	2 00
Verbenas, April 25	2 00
Vinca Var., 2¼-in. pots	2 50

GERANIUMS

	Per 100
8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in. pots	4 00
Double Petunias	3 00
Asp. Sprengeri, April 25	2 00

Asparagus Plumosus Seed, new crop.....$2 00 per 1000

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

We have on hand a large consignment of

Japanese Bamboo Canes

Fine, Strong Quality.

NATURAL.	Per 1000
6 ft., heavy, original bundle of 2,500	$4 25
6 ft., medium, " " 2,500	3 50
5-6 ft., pencil thickness, original bundle of 5,000	3 25
4-5 ft., pencil thickness, original bundle of 5,000	2 75
3 ft., pencil thickness, original bundle of 5,000	2 25

GREEN COLORED.	Per 1000
1½ ft., original bundle of 4,000	$1 20
2 ft., " " " 4,000	1 85
2½ ft., " " " 4,000	3 00
3 ft., " " " 4,000	3 50
3½ ft., " " " 4,000	3 75

Sold in original bundles only.
Samples on application.

Cycas Stems.

Fine straight stems, in case lots of 300 lbs., assorted; 4 10 lbs., ½ 4 lbs., ½ 2 lbs., 2 10 lbs.....$19 50 per case

Kudzu Vine Roots.

Strong, heavy quality, 1000 at.....$50 00
" " " 100 at..... 7 50

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31 Barclay St., NEW YORK CITY.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Bedding Plants

Strong, Well Rooted Cuttings.

Ageratum, Little Blue Star; **Alternantheras,** 4 kinds, rooted cuttings, 60c per 100
Alyssum, Giant and Dwarf double; **Coleus,** 10 kinds, rooted cuttings.....75c per 100
Salvias, 5 varieties, rooted cuttings...$1.00 per 100
Geraniums, Standard varieties, $1 75 per 100; $15.00 per 1000.
What are you going to do about **Perennials?** We have a fine stock.

Mosbaek Greenhouse Co., Onarga, Ill.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high.....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

Made-up Kentia Forsteriana.

7-in. pots, 34 to 36-in. high.....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

JOSEPH HEACOCK CO., WYNCOTE, A.

ARAUCARIAS

EXCELSA

Fine Stock

5-in, 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls, 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in. high, each, **$1.25** doz. **$14.00.**

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All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.

14 Barclay St., NEW YORK.

Paris Daisy, Giant white, yellow, 2-in. 2c.
Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c.
Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem), 2-in., 2c. **Asters,** Earliest, 40c per 100. **Stocks,** Princess Alice, 40c per 100.
Hollyhock, Single field, $2 00 per 100.
Wallflowers, field, $1.00 per 100.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white, yellow: **Swainsona,** alba, $1 00: **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00: **Vinca Var.,** 90c, $8 00 per 1000: **Alternanthera,** 3 kinds 50c: **Ageratum, Coleus,** 60c., $5 00 per 1000: **Artillery Plant, Hardy Pinks,** 75c: **Flowering Begonias,** $1 25 **Fuchsias,** 8 kinds, $1.00: **Salvia,** Splendens, Bonfire, 90c per 100: **Parlor Ivy,** 75c: **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c: **Fuchsias,** 5 kinds, 90c: **Plica,** 70c: **Alternantheras,** red and yellow, 45c: **Vinca Variegated.,** 70c: **Ageratum,** blue 50c: **Heliotrope,** 80c: **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula.** Obc. Grandif. Lilac, 2¼-in., strong stock. $1-75 per 100: 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.

Formerly Garfield Park Flower Co.

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo. S Kalb, fine early: Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset, Jeannie Nonin, October Frost, Early Snow, Angele Laurent.
Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean, Pink Ivory, Rosette.
Yellow—Major Bonnaffon, Cremo, Robt. Halliday, "Baby," small yellow of the button type.
50,000 Rooted cuttings ready. Send for prices.

WM. SWAYNE, Box 226, KENNNETT SQUARE

Dreer's Novelties in Hardy Perennials

New or Little Known Varieties Worthy of Special Attention.

LUPINUS POLYPHYLLUS ROSEUS.

Anchusa Italica Dropmore Variety. A grand improvement on the type, with intense deep blue flowers, $2.00 per doz.; $15.00 per 100.

Anthericum Liliastrum Giganteum. A giant form of the N. Bruno Lily with very large white flowers, $2.50 per doz.; $20.00 per 100.

Aquilegia Helenæ. One of the best of the Columbines, large pretty blue flowers, with large white corolla, 85 cts. per doz.; $6.00 per 100.

Campanula Persicifolia Humosa. A very large semi-double form of the peach leaved Campanula, flowers of a pleasing shade of blue, $1.50 per doz.; $10.00 per 100.

Delphinium Gold Medal Hybrids. The finest strain ever offered in mixed varieties, $1.25 per doz.; $8.00 per 100.

Delphinium Belladonna. The freest flowering of all Delphiniums, it is never out of bloom, beautiful turquoise blue, $2.00 per doz; $15.00 per 100.

Funkia Robusta Elegans Variegata. A decided improvement on all variegated forms, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Gem. A new variety that originated on our trial grounds. Flowers old gold, suffused with bright terra cotta, changing as they mature to a wallflower-red, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Beauty. Another variety which originated with us, quite distinct in color, which is lemon-yellow, with a large disc of purplish-black, $1.50 per doz.; $10.00 per 100.

Helianthus Sparsifolius. The most desirable of all the hardy sunflowers, especially valuable as a cut flower, 85 cts. per doz.; $6.00 per 100.

Four Valuable Hemerocallis. The four varieties here offered are great improvements upon the well-known Yellow Day Lilies.

Aurantiaca. Very large, bright, orange-yellow, sweet-scented flowers. 15 cts. each; $1.50 per doz.

Aurantiaca Major. Large trumpet-shaped, sweet-scented, deep orange flowers. Requires protection, 35 cts. each; $3.50 per doz.

Florham. Large golden-yellow sweet-scented flowers; very free flowering, 15 cts. each; $1.50 per doz.; $10.00 per 100.

Gold Dust. Large golden-yellow flowers, 15 cts. each; $1.50 per doz.

Incarvillea Delavayi. Popularly known as the hardy Gloxinia; extra strong roots. $2.00 per doz.; $15.00 per 100.

Iris Pallida Dalmatica Folia Variegata. A strikingly handsome variegated leaved form of this beautiful blue Iris, 35 cts. each; $3.50 per doz.

Gypsophila Paniculata Flore Plena. This is a perfect gem and as a summer cut-flower invaluable. We have a large stock of strong roots to offer this season. $2.00 per doz.; $15.00 per 100.

Lupinus Polyphyllus Roseus. This is a most attractive rosy pink form of Lupinus, producing gigantic spikes of flowers, $2.00 per doz.; $15.00 per 100.

Pentstemon Gentianoides Sensation. Gloxinia-like flowers in a variety of bright colors, including rose, cherry, crimson, purple, lilac, etc. For bedding they rival Phloxes. Petunias, etc. Not quite hardy, 3-inch pots, $1.00 per doz.; $7.00 per 100.

Primula Cortusoides Sieboldi. These are not so well known as they deserve; they are of free, vigorous growth, and can be flowered in pots in early spring, and respond quickly to forcing when placed in a temperature of 50 degrees, forming pretty pot plants in a short time, making excellent window plants, which meet with ready sale when in bloom.

We offer six distinct varieties, from pure white to the deepest rose in color, $1.50 per doz.; $10.00 per 100.

Rudbeckia Rays of Gold. In this new variety we have a refined form of the popular "Golden Glow," with which it is identical in color, habit, etc., but the flowers have narrower petals, full to the center, forming a perfect ball of gold. $1.50 per doz.; $10.00 per 100.

Stokesia Cyanea Alba. A white form of the popular blue Stokesia, equally valuable and a desirable addition; strong plants, $1.25 per doz.; $8.00 per 100.

Choice New Trollius. (New Globe Flowers.) The five varieties listed below are decided improvements on all sorts heretofore offered; of exceptional large size and good rich colors.

Gotterfunke. Large open orange-yellow flowers.

Helios. Very free flowering, pure yellow, on strong branched stems.

Leuchtkugel. One of the finest deep orange reds.

Lichtball. Large, globular orange-yellow flowers on stiff stems.

Salamander. Soft orange-colored flowers of globular form.

35 cts. each; $3.50 per doz. The set of 5 for $1.50.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

Texas Nursery Business.

AUSTIN, March 28.—Some interesting figures are submitted in the orchard inspection report of the Department of Agriculture for the year 1908. During the year, 288 new certificates were issued to growers and dealers and 108 outside firms were given authority to do business in the state. Following is a summary of the report: Acres of nursery growth inspected, 2,991; value of stock inspected, $1,016,675; trees inspected, 17,060,298, distributed as follows: Apple, 2,873,400; peach, 7,073,250; plum, 702,297; pear, 523,250; fig, 1,728,965; orange, 1,003,195; other citrus, 66,420; forest trees, 2,502,244; pecan, 315,265; apricot, 115,265; cherry, 167,290; miscellaneous, 155,318; ornamental shrubs, 1,515,144; roses, 736,915; grapevines, 956,160; seedlings, 641,250; strawberry plants, 584 acres; blackberry, 501 acres; dewberry, 298 acres; raspberry, 181 acres; other berry plants, 68 acres; miscellaneous plants, 310,667. Material increase in every department of the nursery business is shown by the report, and the department predicts a still more substantial gain during 1909.

SANGAMO.

Is the new, brilliant, glistening **PINK CARNATION** shown at Indianapolis and awarded the A. C. S. Certificate of Merit, attracting the attention of every carnation grower on account of its very pleasing color, long stiff stem and well formed flowers, measuring 3 to 3 1-2 inches. The calyx is strong, and as a producer it cannot be excelled.

Orders booked now for January, 1910, delivery.

$12.00 per 100; $100.00 per 1000.

Grown and disseminated jointly.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO. Joliet, Ill.**

Tree Trimmers Trimmed.

Two young men, representing themselves as graduates of Yale and Cornell and expert tree trimmers, lately appeared at Poughkeepsie, N. Y., made contracts to prune certain apple orchards, hired 20 men to do the work at $2.50 a day, employed them 2½ days, taking them out in an automobile they talked of buying—then suddenly disappeared with $75 paid for trimming H. F. Fay's orchard. It is now supposed they were former employes of the Inter-State Tree-Treating Co. of Mount Vernon, N. Y., and had "worked" a number of wealthy people in that section.

ROOTED CARNATION CUTTINGS

PINK.	Per doz.	Per 100.	Per 1000.
MRS. CHAS. KNOPF	$2.00	$12.00	$100.00
ALVINA	2.00	12.00	100.00
PINK DELIGHT	2.00	12.00	100.00
AFTERGLOW		5.10	45.00
ENCHANTRESS		3.00	25.00
ROSE PINK ENCHANTRESS		3.00	25.00
WINONA		5.00	45.00
RED. Per 500.			
O. P. BASSETT	$35.00 1.50	8.00	60.00
ANDREW CARNEGIE		6.00	50.00

WHITE.	Per doz.	Per 100.	Per 1000.
MRS. J. C. VAUGHAN	$2.00	$12.00	$100.00
SARAH HILL		5.00	45.00
WHITE ENCHANTRESS		4.00	35.00
WHITE PERFECTION		3.00	25.00
WHITE LAWSON		3.00	25.00
CRIMSON.			
RUBY	2.00	12.00	100.00
VARIEGATED.			
MRS. M. A. PATTEN		3.00	25.00

New Roses for 1909

WHITE KILLARNEY. Strong plants, 2½-inch pots, own roots, $5.00 per doz.; $30.00 per 100; 250 for $70.00; 500 for $125.00; 1,000 for $250.00. Grafted plants, 2½-inch pots, $5.00 per 100 additional.

MY MARYLAND. Strong plants, 2½-inch pots, own roots, $1.50 per doz.; $10.00 per 100; $90.00 per 1,000. Strong plants, 2½-inch pots, grafted, $20.00 per 100; $150.00 per 1,000.

MRS. MARSHALL FIELD. Strong plants, 2½-inch pots, grafted, $4.50 per doz.; $30.00 per 100; $250.00 per 1,000.

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

OUR PASTIMES.

At Chicago.

Prize bowling attracted a large attendance April 2, from the trade at Bensingers' alleys, 118 Monroe street, Eric Johnson won first with a handicap of 48. A. Barnet, second with a handicap of 156, and Wm. Graff, third with a handicap of 36. The scores follow:

Wm. Graff Capt.	147	148	235
W. Lorman	158	134	155
E. Ferley	79	121	110
F. Krause	115	140	105
F. Ayers	122	129	142
Totals	621	672	747
E. Shultz	126	128	147
J. Michaelson	126	142	123
J. Straus	144	108	121
J. Byers	161	104	101
C. Bemisch	101	95	75
Totals	658	577	567
E. Johnson Capt.	198	191	195
Armstrong	116	126	98
J. Zech	151	163	135
Ebeling	147	147	108
Barnnett	137	157	126
Totals	749	784	662
T. Matchen	104	143	170
O. Goerisch	94	110	92
V. Kreitling	154	145	119
M. Tribble	117	122	119
A. Zech Capt.	194	157	156
Totals	663	677	656

There will be no bowling this week on account of Easter.

At St. Louis.

BOWLING, MARCH 29.

J. C. Young	154	116	104
M. C. Young, Jr.	111	180	160
Julius Kœnig	93	112	127
F. H. Weber	144	163	145
Wm. Young, Sr.	131	143	
C. C. Connon	140	135	
Wm. Smith	110	165	
Alex. P. Geranios	110	118	

W. F.

At New York.

BOWLING APRIL 5.

Scott	132	165	155
Berry	174	171	158
Manda	157	153	143
Faulkner	97	131	113

ST. LOUIS, MO.—Augspurger & Sons Co. has been incorporated with capital stock $2,400 to sell flowers, seeds, etc. D. W., A. M. and M. D. Augspurger are the incorporators.

GRAFTED ROSES

On Selected Manetti.

Clean, healthy wood. Grown especially for grafting.

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100.

Rhea Reid, $15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

JACKSON & PERKINS CO., Newark, New York.

New Carnation **Lucille**

White, overlaid with Pink.
Will bring you bigger returns.
Try it and be convinced that it is a money maker.
$12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Would Not Be Without It.

ED. AMERICAN FLORIST:—
I am very well pleased with the AMERICAN FLORIST, and would not be without it for twice its price.
JOSEPH KENNEDY.
Rumson, N. J., November 28, 1908.

MURRAY HILL, N. J.—L. B. Coddington is erecting a large greenhouse.

EVANSVILLE, IND.—Austin Wallace will build a greenhouse on his place at Eichel avenue at a cost of $1,000.

CARTHAGE, MO.—Finn & Son have moved their down-town office to the southwest corner of the square in the Osborn news stand.

ROCKFORD, ILL.—W. H. Hizer has leased a part of a lumber yard on South Main street for the greenhouse which he is to bring here.

OGDEN, UTAH.—John Chipp, Sr., one of the early settlers, and for many years the leading florist and greenhouse man of the city, died March 28, at Rock Springs, Wyo., where he has resided for about 14 years. Mr. Chipp was 76 years of age. He was a native of England, but came to this city when a young man and was actively engaged in the city's upbuilding. He is survived by a wife, four sons and one daughter.

JACK ROSE and VIRGINIA MAULE

Strong plants,
50c each; $5.00 per doz.; $35.00 per 100.
If you want the best **new creations in Cactus and other types of**

DAHLIAS

Send for new descriptive catalogue, just out.

Peacock Dahlia Farms
Williamstown Junction, N. J.

Aster Seeds

That will produce good blooms.

Chrysanthemums

The best for Florists.

Elmer D. Smith & Co.
ADRIAN, MICH.

BOZEMAN, MONT.—M. Langohr will add 12,000 feet of glass to his plant, making in all 26,000 square feet.

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

ROOTED CUTTINGS

ROSES

	Per 100	Per 1000
MAIDS,	$2 00	$15 00
RICHMONDS,	2 00	15 00

CARNATIONS

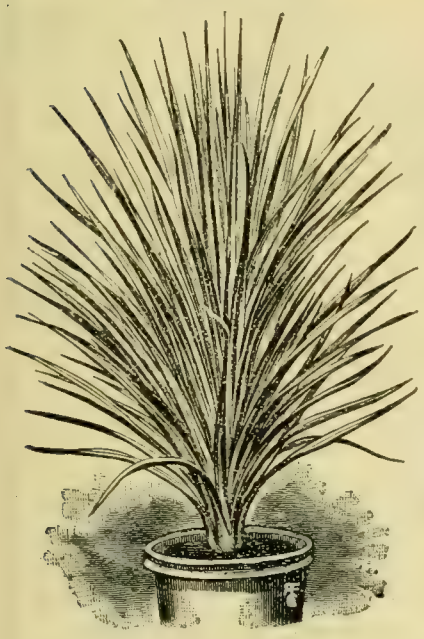
	Per 100	Per 1000
WINSOR,	$3 00	$20 00
ENCHANTRESS,	3 00	20 00
LADY BOUNTIFUL	3 00	20 00

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** Office and Store: 76 Wabash Ave., CHICAGO.

Easter Lilies in Pots

Write for Prices.



Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

	Per doz.	Per 100
3-inch	$ .75	$ 6 00
4-inch	1.50	12.00
7-inch	7.00	

You can recommend these plants: first-class value for the money. If you don't want them shipped at once, we will reserve them until any date you name, only send in your order today.

Adiantum Cuneatum Robecki, strong stock, 3½-inch pots, $8.00 per 100: 4-inch pots, $12 00 per 100.

Send for complete wholesale price list of Palms and Ferns.

The Geo. Wittbold Co.,
1657 Buckingham Place, CHICAGO.

MARY TOLMAN

A New Light Salmon Pink Carnation.

Of a somewhat warmer tone than Enchantress, and does not fade on the edge of the petals, having a clear, even shade all over the flower, which measures from 3 to 3½-inches, although 4-inch flowers are very common. The stem is long and stiff, holding the flower perfectly erect. The calyx is very strong, and as a producer, it comes early, is very free and continuous.

Orders booked now for January 1910 delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

VERBENAS

70c per 100; $6.00 per 1000.

Pelargonium Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100: $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5.00 per 1000. All rooted cuttings.

Express prepaid on rooted cuttings. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

Apple Blossom **Wanoka**

WONDER WORKERS. MONEY MAKERS.

$12.00 per 100: $100.00 per 1000. Delivery any time

WANOKA GREENHOUSES,
BARNEVELD, NEW YORK.

AFTERGLOW

Rooted Cuttings ready now at $6.00 per 100; $50.00 per 1000.
Prices on larger lots on application.

R. Witterstaetter, Station F., Cincinnati, O.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan $12.00 per 100: $100.00 per 1000,

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,
Madison, New Jersey.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors, extra fine stock, all transplanted. Per 100

First size, in bloom and bud	$1.25
Second size, in bloom and bud	1.00
Strong plants bloom in April	Per 1000, $5.00
Smaller size plants	Per 1000, 4.00

Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. SOUTHPORT, CONN.

Grower of the Finest Pansies.

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

The Hyde Park Rose Co.

Wishes to inform the trade that they will be able to supply

Only 7,500 More Plants of Their New Taft Rose

and wishes all those desiring stock of this rose to place their orders as soon as possible. Good strong plants from 2-inch pots at **$15.00 per 100 straight; no reduction in lots of 1000.** Address all mail to

THE HYDE PARK ROSE CO., Wasson Ave. and McCormick Road, **Hyde Park, Cincinnati, Ohio**

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS.**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**
IN BEST VARIETIES.
Prices low. Send for list.
WOOD BROTHERS, Fishkill, N. Y.

ROSE PLANTS

On own roots. Send for list.
C. M. NIUFFER, Springfield, Ohio

40,000 Var. Vincas

Very strong, $1.00 per 100; $8.00 per 1000. Express prepaid.
C. HUMFELD, Clay Center, Kans.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,
225 W. 16th St., DAVENPORT, IOWA

GET YOUR ORDER IN FOR EASTER PLANTS

Lilies, Spireas, Azaleas, Hydrangeas, &c., &c.
Will ship Lillies in paper pots so they will reach you in fine shape. All will be in for Easter. Ask us to send you our Soft Wooded plant list. **Dreer's Fancy Petunias. Fine Fuchsias, Salvia Zurich, Geraniums, etc., etc.**
GEO. A. KUHL, PEKIN, ILL.
Wholesale Grower.

FIELD-GROWN Rose Plants

Suitable for Easter forcing.
NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each; $30.00 per 100.
Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

VAUGHAN'S LIST OF Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots and budded	$2 00	$12 00
3 yrs. old, 3 to 4 ft., well branched, own roots and budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4-inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
KILLARNEY, 2 yr., budded	2 50	18 00
DEBUTANTE, 2 yr	2 00	15 00
SWEETHEART, 2 yr	2 00	15 00
HIAWATHA, 2 yr	3 50	25 00
LA FIAMMA, 2 yr	2 00	15 00
TRIER, 2 yr	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, budded	2 50	16 00	135 00
3rd size, selected, budded	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3-inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ... each, 50c; per doz., $5 00; per 100, $35 00
TREE ROSE Crimson Rambler ... each, 50c; per doz., 5 00; per 100, 40 00
TREE ROSE Baby Rambler, 1½ to 2½ ft ... each, 75c; per doz., 8 00
TREE ROSE Baby Rambler, 2½ to 3 ft ... each, $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened.
Write us for list and prices.

Manetti Stock for Grafting.

French Stock ... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Carnation Cuttings and Plants

READY APRIL DELIVERY
Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ... $10.00 per 100, from sand
Mrs. J. C. Vaughan, from 2½-in. pots, ... $12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, **Joliet, Ill.**

Grow the Cherokee **ROSES** Pink and White

For Easter, 1910

Offer Your Customers Something New and Good

Perhaps one in one hundred of them have seen a **Cherokee Rose.** Have you?

CHEROKEE ROSES

Have dark green, thick and polished evergreen foliage. The flowers are single, 4 to 5 inches across, on very short stems.

THESE REALLY LUXURIANT ROSES ARE THE COMING TYPE

They are ideal for pot culture; grown on solid beds, immense sprays may be cut for Easter

We offer the white (Rosa Laevigata), 2 1-2 in. pots, $3.00 per doz.
The very rare pink variety, Anemone, price upon application.

CITY NURSERIES, S. HOCKRIDGE, Manager, **Redlands, Calif.**

The Gloxinia.

It is not many years since gloxinias were looked upon as only suitable for a stove with a high and moist heat; but in these days they are very often successfully grown in a cool house. It is presumed that a number of old tubers are now in pots or boxes, and it is to these we must look for our first batch of blooms, says the Journal of Horticulture. Therefore it will be necessary to start some of them in gentle heat, and subject them to a certain amount of moisture. The compost should be of a light nature, fibrous loam, well broken up, two parts; half decayed leaf soil one part, put through a ½-inch sieve, and half part of well-dried cow manure, all to be mixed with enough coarse sand to make it porous. Prepare some boxes about five inches deep with a layer of autumn fallen leaves in the bottom, and then the prepared compost, which should not be pressed too firm, as the tubers require pressing with the fingers as they are inserted, and a final sprinkling of coarse sand put on. The boxes should be placed where the temperature is from 50° to 55°, watering only just sufficient to keep the soil moist. If they are overwatered decay is bound to set in, resulting in utter failure. Prepare pots which will allow about an inch of compost around the tubers. These will be ready for potting when the growths are from two inches to three inches high. Similar compost to that above-mentioned will be suitable, only in a little rougher condition. Be sure the pots are clean and well drained. Allow the newly-potted plants a position where they will have plenty of light, as this will ensure sturdy growth. A higher temperature may then be given, and as the days lengthen and the sun gets more powerful, this difficulty will be lessened where only a cool house temperature can be maintained. Seeds are also sown now. The gloxinia is quite one of the great decorative plants of today and seed houses vie with each other in the production of ideal erect-flowering types of the plant.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100
Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio

American Everblooming **Hydrangeas**

Strong, field-grown plants, 15 inches and up, $2.50 per doz., $15.00 per 100: the same, 10 to 14 inches, $1.50 per doz., $10.00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000: B Thunbergii Seedlings 5 to 7 inches, $1.50 per 100, $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3 ft. cheap.

THE E. Y. TEAS CO., Centerville, Ind.

DRACENA IND., 4-in., 10c.

Scottii and **Boston Ferns,** 4-in., 12c; 5-in...20c
Hydrangea P .G., 3 ft., 8c; 1½ ft.....5c
Per 100
Asparagus Plumosus, 2-in $2 00
Sprengeri, 2-in., $2.00; 3-in., $4.00; 4-in..... 6.00
Cannas, Egandale D. Harum Marlborough, America, Pennsylvania, K. Gray, B. Beauty, A. Bouvier 1.75
Vinca Var., 2-in., $2.00; **English Ivy,** R. C. .75
J. H. DANN & SON, Westfield, N. Y.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns. Boston 3-in. pots, $4.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100.
Cannas, King Humbert and Mt. Blanc, 3-in. pots, $5.00 per 100.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in pots $5.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
ROOTED CUTTINGS from soil, $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem), Coleus (Verschaffeltii and Golden Bedder), Alternantheras, 4 varieties, 50c per 100, from sand.
Carnations. R. C., from soil, $2.00 per 100—Pink: Enchantress, Dorothy; scarlet: Robt. Craig, Elbon; white: Flora Hill, B. Market, — Winsor, $3.00 per 100.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA**

The Return of the Flowers.

Text: "Behold the grass of the field; consider the lilies, how they grow."

In the far south the distant hillsides are mingled with rose and snow, colored by the peach orchards, now in full bloom. From South Carolina comes an envelope filled with wild violets that now embroider all the meadows. Pushing aside the leaves in the forests of New Jersey one finds the arbutus, the sweetest single perfume that nature has ever perfected.

Already, even in the cold North, at the park, the tulips spot the earth with gold and fire. The boughs of all the trees are purple. Where bareness was yesterday will be beauty tomorrow.

Could the old Greeks return they would scent the sweetness of the air and whisper that Ceres was abroad in the land. The poet who lays his ear to the ground perceives that the universal soil is moving, throbbing, aching with a hidden secret. When the morrow's morrow has come, going into the open air man will find that the land is embroidered with snowdrops, anemones, with violets, crocuses, from sea to sea. These flowers are God's greatest natural miracle. No anemone or daffodil can be explained by a black clod and a pint of water.

Our earth holds many sons of genius named scientists and inventors, but the genius of no scholar is equal to making in the laboratory a single rose petal. Great is a sheaf; wonderful the shock! Most marvelous a cluster of grapes or a bough of peaches. But Nature's supreme achievement is the arbutus and the violet, led forth out of frost and winter.

THE UNLIKELY BEGINNINGS OF THE FLOWER.

Consider the flowers, how untoward their beginning. Unseemly, also, their first estate. This bulb that the gardener plants so carefully looks like an onion or garlic. The bulb can be peeled; it is rough, unseemly, without hint of perfume or beauty. But thrust it into the ground that it may die. Let the fallen leaves become its shroud and funeral blanket. Let the winds blow in November and the flakes of February fall. The day will come when ugliness will bloom.

Strange that that unseemly bulb could blossom into this chaliced lily cup, fit to hold the nectar sipped by angels! And yet when poets and artists are seeking for something that holds loveliness so divine that it can interpret the immortal hope and heaven, they go to this ugly bulb and thrust it into the ground and wait, kowing that this divine beauty shall issue therefrom.

It is God's world. The blossoming bulb is an emblem of unfolding plans. Out of the prisons has come the moral beauty of John Howard. At midnight, in the lowest dens of London, surrounded by a hundred thieves and lost women, Father Dollin sits, working his miracles. St. Catherine sought out the murderer, pressed the boy's head against her knee, drew from him his sobbing confession and transformed his life. The Maoris of 50 years ago were cannibals in New Zealand. And today they live in ceiled houses, graduate their children from high schools, have their own representatives in parliament, have married their daughters to bankers and gentlemen of rank and title.

A million foreigners come, and the native Americans stand aghast. Ten summers pass over the newcomer, and lo! his children stand forth patriots, industrious citizens, full of thrift, loyalty, obedience and beautiful service.

The miracle of barrenness bursting into beauty is a perpetual miracle. Weeds are only latent flowers. An ugly root holds a latent rose. An unseemly bulb will unroll into an Easter lily. Out of this hut will come a sage, a poet and a statesman. Consider the flowers of the field, and be an optimist.

THE LESSON OF HAPPINESS.

From this greatest event of the week, also, the return of the flowers, comes a rebuke of man's fussiness, unhappiness and endless agitation. Jesus understood how simply the flowers lived, how naturally they grew. They toil not, they spin not, they worry not, they strain not for effect. In quiet trust they take the happiness that each morning's sun and dew offer. And richly does the sun reward them.

Untwisting its beams of light and spreading out the seven rich colors, the sun lends red to the rose, blue to the forget-me-not, gold to the daffodil, lavender to the lilac.

The flower's one duty is to use the talents given it. God has given it roots, and it quietly uses the roots for the pumping of sap and moisture, and when that task is completed it peacefully waits for God and His sun to do the rest.

And this great sun-lover never betrays the trust. Stooping to the little flower, the Sun-Father whispers: "I have chosen thee to beauty; thy name is written on the palm of my hand. Trust in thy Sun, work hard, do good, and thou shalt be fed with beauty, and grow." And, sweetly obedient, the flower toils on toward its reward and wakens to be crowned with the loveliness that seems more of heaven than of earth.

With such a marvel before one it seems strange that men should be anxious, fretful, querulous, full of burning thoughts by day and fierce passions by night. If God remembers the very grass and flowers of the field that bloom, and crowns them with beauty for a few days, how much more will He remember His daughters and His sons, made in His image and destined to come into His likeness!

The tired soul that listens to the flower will hear a little voice whispering: "Trust in the Lord; do good; thou shalt be fed. Fret not thyself in any way. Nothing shall be able to separate thee from the love of God, thy Father and my Father."

THE LESSON OF COMPANIONSHIP.

Consider the flowers and their return, that man may find his lost paradise. Stooping above a little wild flower that has pushed its way up between two clods, the poet's eyes are dimmed and suffused with tears. In that moment a soft, silken splendor steals over the whole earth. The whole heavens become roseate. Every poor child, despite its rags, stands forth in the guise of an angel, newly entering the scene. God's wine is freshly poured. Doubt and fear become contemptible. God is seen to be fully equal to every form of good for society. The power that can turn a frozen lump of mud into the field daisy, crimson-tipped, can turn huts into houses, swords to ploughshares, wars and warring armies into angels of mercy and healing, hate to love.

Winter is marching toward flowers, and then ignorance is marching toward wisdom. Tenements are marching toward avenues; poverty is marching toward plenty; disease is marching toward health; darkness is marching toward light, and the angel of life is issuing from the door of death.

The flower rebukes fear, makes joy a duty and hope one's native atmosphere for the worker. Blessed be God for these flowers, whose roots are in earth, but whose perfume is borrowed from heaven. —Newell Dwight Ellis, in the New York Sunday World.

The Best Dollar's Worth.

ED. AMERICAN FLORIST:

I have much pleasure in enclosing my subscription for the AMERICAN FLORIST, the cheapest and best dollar's worth in the United States.

FRANK C. ROSE.

Libertyville, Ill., January 14, 1909.

KENNEWICK, WASH.—C. M. Stockman, manager of the Kennewick greenhouses, says he will at once begin work on another new greenhouse to meet the increasing demand.

Moonvines

(Ipomoea Multiflora.)

Best white Moonvine, for which we have a world-wide reputation, now ready, 2¼-in. pots, $5.00 per 100.

GODFREY ASCHMANN

Importer, Wholesale Grower and Shipper of Pot Plants,

1012 W. Ontario St., PHILADELPHIA, PA.

ROSES

Summer Grown.

Winter Rested. On Own Roots.

TEAS.

	2½-in. 100	2½-in. 1000	4-in. 100
Bougere	$2.50	$22.50	$ 8.00
Catherine Mermet	2.50	25.00	
Christine de Noue	3.00	27.50	8.00
Coquette de Lyon	2.50	25.00	8.00
Devoniensis (Magnolia Rose)	2.50	25.00	8.00
Duchesse de Brabant	3.00	25.00	8.00
Etoile de Lyon	2.75	27.50	8.00
Golden Gate	2.50	25.00	8.00
Isabella Sprunt	2.50	25.00	8.00
Ivory	2.50	25.00	8.00
Mme. de Vatry (Creole Beauty)	2.50	25.00	8.00
Mme. Lombard	2.75	27.50	8.00
Mlle. Cecile Berthod	2.50	25.00	8.00
Mlle. Francisca Kruger	2.50	25.00	8.00
Marie Guillot	2.50	25.00	8.00
Marie Lambert (Snowflake)	2.50	22.50	8.00
Marie Louise	2.50	22.50	8.00
Marie van Houtte	2.50	25.00	8.00
Uncle John	2.50	25.00	8.00
White Bougere	2.50	25.00	8.00

HYBRID TEAS.

	2½-in. 100	2½-in. 1000	4-in. 100
Antoine Verdier	$3.00	$25.00	$
Blumenschmidt (New)	10.00	100.00	25.00
Helen Gould (Balduin)	3.00	27.50	8.00
Jacob's Perle (New)	10.00	100.00	25.00
Kaiserin Augusta Victoria	3.00	30.00	8.00
Kaiserin Goldifolia (New)	6.00	50.00	15.00
Lady Battersea (Red Niphetos)	3.00	27.50	8.00
Mme. Jenny Guillemot	4.00	35.00	12.00
Meteor	3.00	27.50	
Rhea Reid (New)	10.00	100.00	25.00
Souvenir de Pres. Carnot	3.50	30.00	8.00
Striped La France	3.00	27.50	
Wellesley	3.00	30.00	8.00
White La France	3.00	27.50	
William R. Smith	6.00	50.00	

CLIMBERS.

	2½-in. 100	2½-in. 1000	4-in. 100
Caroline Goodrich (Noisette)	$2.50	$25.00	$ 7.00
Climbing Devoniensis (Cl. Tea)	2.50	25.00	8.00
Climbing Meteor (Cl. H. T.)	3.00	27.50	
Climbing Soupert (Cl. H. P.)	2.50	25.00	7.00
Empress of China (Cl. Ben)	2.50	25.00	
James Sprunt (Noisette)	2.50	25.00	
Marechal Niel (Noisette)			10.00
Mary Washington (Noisette)	2.50	25.00	
Reine Marie Henriette (N.)	2.50	25.00	
Reve d'Or (Golden Chain, Cl. T.)	2.50	25.00	
Solfatare (Noisette)	2.50	25.00	7.00

HARDY CLIMBERS AND RAMBLERS.

	2½-in. 100	2½-in. 1000	4-in. 100
Baltimore Belle	$2.50	$25.00	$ 7.00
Crimson Rambler	3.00	25.00	8.00
Debutante	2.50	25.00	7.00
Dorothy Perkins	2.50	25.00	
Keystone	2.50	25.00	
Lady Gay	2.75	27.50	7.00
Manda's Triumph	2.50	25.00	
Philadelphia Rambler	2.50	25.00	8.00
Pink Rambler	3.00	25.00	8.00
Prairie Queen	2.50	25.00	7.00
Russel's Cottage	2.50	25.00	7.00
Seven Sisters	2.50	25.00	7.00
South Orange Perfection	2.50	25.00	
Sweetheart	2.50	25.00	7.00
Tennessee Belle	2.50	25.00	7.00
Universal Favorite	2.50	25.00	7.00
White Rambler	3.00	25.00	

MISCELLANEOUS.

	2½-in. 100	2½-in. 1000	4-in. 100
Anny Muller (Pink Baby Rambler)	$2.50	$25.00	
Burbank (Bourbon)	2.50	25.00	
Conrad F. Meyer (Hy. Rug.)	3.50	35.00	
Hermosa (Bourbon)	3.00	27.50	
Mosella (Hy. Pol.)	2.50	25.00	8.00
Moss White, Pink, Red	4.50	40.00	10.00
Phyllis (New Dwarf Ramb.)	10.00	100.00	15.00

Hardy Hybrid Perpetuals.

Anna de Diesbach	$3.50	$30.00	$ 7.00
Ball of Snow (Boule de Neige)	3.50	30.00	7.00
Francois Levet	3.50	30.00	
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Magna Charta	3.50	30.00	7.00
Paul Neyron	3.50	30.00	7.00
Ulrich Brunner	6.00	50.00	

For choice of stock, send order or want list now.

THE LEEDLE FLORAL COMPANY SPRINGFIELD, OHIO

Conquest

A New Seedling Carnation to be disseminated next season. This is a variety that florists have been wanting ever since they discarded Prosperity.

CONQUEST is a light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. It does not fade, making it a most beautiful and attractive flower. Its habit is somewhat on the order of Lawson, although the stem is somewhat longer, and very stiff. The flowers are well filled and nicely formed, which add to its attractiveness. Without a doubt, it will be the most attractive as well as the most profitable variety to be disseminated the coming season.

Orders booked now for January 1st, 1910, delivery. $12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO.
A. T. Pyfer, Mgr., **JOLIET, ILL.**

Vaughan's Special Offer of Seasonable Stock

	Each	Doz.	100
Areca Lutescens, 4-in., 3 plants in a pot, 15-18 in. high.		$3 00	$20 00
Kentia Belmoreana, 6-in., 6 leaves, 24-26 in. high.	$1 75		
" " 7-in., 6-7 leaves, 26-28 in. high	2 00		
" " 7-in., 6-7 leaves, 30-32 in. high	3 00		
Kentia Forsteriana, 6-in., 5-6 leaves, 30-32 in. high	1 50		
" " 5-in., 5-6 leaves, 34-36 in. high	2 00		
" " 7-in., 5-6 leaves 36-40 in. high	3 00		
Latania Borbonica, 3-in., 3-4 leaves, 12-14 in. high		1 00	8 00
" " 4-in., 4-5 leaves, 14-16 in. high		2 50	20 00
Phoenix Roebeleni, 4-in.	75	8 00	
Pandanus Utilis, 5-in., 15-18 in. high	50	4 00	

	Each	Doz.
Aspidistra Lurida Green Leaved, 5-in. pots, 6-8 leaves	$ 75	
" " " 6-in. pots, 10-12 leaves	1 00	
" " " 7-in. pots, 18-20 leaves	1 50	
Aspidistra Lurida Variegata, 5-in. pots, 6-8 leaves	1 00	
" " " 6-in. pots, 10-12 leaves	1 50	
" " " 7-in. pots, 18-20 leaves	2 00	
Ficus Elastica, 5-in., 18-20 in. high	35	$4 00
" " 6-in., 24-28 in. high	60	6 00
Genistas, 5-in., bushy plants in bud and bloom	40	4 00
Spirea Queen Alexandra and Peach Blossom, in bud	75	8 00
" Blondin, in bud	50	5 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

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A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1 00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2 50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5 00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-in., $2.00 per 100. 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia). Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas.**
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newport, N. J.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$7 00	$65 00
Maids, grafted	3 50	30 00
Moulton, best salmon rose	3 00	25 00

From 2 1-2 in. Pots.

	Per 100	1000
Maids	$3 00	$25 00
Brides	3 00	25 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

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White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond.
Rose pots, $15.00 per 100; 3½-in. pots $18.00 per 100.
Brides, Bridesmaids, Golden Gates, Kaiserin, La France,
Rose pots, $10.00 per 100; 3½-in. pots $15.00 per 100.

OWN ROOTS

Rhea Reid, Chatenay, Richmond, Killarney, American Beauty.
3-in. pots $9.00 per 100; 4-in. pots $12.00 per 100.
Brides, Bridesmaids, Perle, La France,
3-in. pots $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch $5.00 per 100
Pansies, fine plants 2.50 per 1000

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A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in. **Pandanus Veitchi** at 75c each, $7.50 per doz.

Cash with order.

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HEADQUARTERS FOR

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"By jingo," was the remark of a bright looking gentleman, as he stepped with his lady friend into one of our Araucaria houses. "If these are not the best shaped and finest looking specimens of **Araucaria Robusta Compacta, Glauca** and **Excelsa** I have ever seen, *then I am a shade.* ☞ Just look! What a sight this time of the year, one as nice as the other!"

Araucaria Robusta Compacta, Glauca and **Excelsa.** Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds, same as when we first started. Why the Araucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen. As big as an elephant, for 75c; as big as a jumbo, for $1.00; and as big as a holy terror, for $1.25 to $1.50.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa, 3-4-5 year old, 4-5-6-7 tiers 6-in. pots, 20-25-30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

GODFREY ASCHMANN
Importer Wholesale Grower
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1012 W. Ontario St., **PHILADELPHIA, PA.**

Plants That Become Pests in Hawaii.

The territory of Hawaii is compelled to watch the importation of plants and vegetables probably more closely than any state or territory on the mainland, in order to guard against the entrance of pests both of the animal and vegetable types. For the past five years the quaratine maintained by the Territorial Board of Agriculture and Forestry has been very strict and though onerous at times, is very generally supported by public opinion. Many insects and plants which in their native habitat are so controlled by either their natural enemies or by the period of cold weather, that they do not in any sense constitute pests, become very troublesome when brought into a salubrious climate such as Hawaii possesses; and hence great care must be exercised in allowing any new thing to be brought in.

A very striking example in this regard is to be found in the lantana (L. Camara—of the verbenacæ group) which is valued all through the United States as a bedding or greenhouse plant, and which is rather difficult to raise north of the gulf states. Some plant fancier brought the seed of this shrub into the islands some years ago, and now it constitutes a thoroughly defined and very troublesome pest. It has obtained a foothold on most of the islands, and has taken possession of large tracts of pasture land, and other uncultivated tracts, where it forms almost impenetrable thickets. Laws have been passed to check its spread, and an insect enemy imported which it was thought would destroy it. This has been of some efficiency, but there is now some uneasiness lest the "lantana blight," as it is called, will refuse to confine its attentions to lantana alone.

On some of the islands cattle men have much trouble with the common North American blackberry and raspberry which here refuse to confine themselves to fence corners and out of way places, but sometimes take possession of considerable areas of pasture lands. Considerable money has been spent in employing laborers to dig out the roots from the cattle ranges.

GERANIUMS

We have an immense stock of fine plants from 2-in. pots at $2 00 per 100, $18.50 per 1000 and up. We will send 1000 50 each of of 20 good sorts, our selection, for $18.50 cash, or we will send 1000 from 3-in. pots in good assortment for $3.00 per 100; $25.00 per 1000.

	Per 100 2-in.	3-in.
AGERATUM, 5 kinds	$2 00	$3 00
ALYSSUM, Dwarf and Giant	2 00	
CENTAUREA, Gymnocarpa	2 00	3 00
ACHRYANTHES, Emersoni and Mosaica	2 00	3 00
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HARDY ENGLISH IVY,	2 00	
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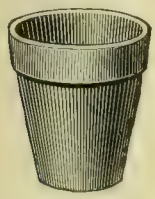

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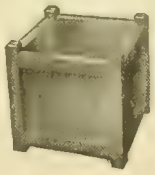

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LILACS.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia, Kathleen Mallard, 2-in., $2 per 100; $18.50 per 1,000. Crystal Palace Gem, $1.50 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Kathleen Mallard, double from 2-in. pots, 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

MOONVINES.

Moonvines, extra fine plants, 2½-in pots, $2.75 per 100. Robt. E. Rudolph, Paducah, Ky.

Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Soft long fiber Sphagnum for florists' use. Large bags, solid packed, $1; 6 bags, $5. Good moss. Low freight rates. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, roses, rhododendrons, hydrangeas, conifers, herbaceous and bulbous stock. Wm. Elliott & Sons, 45 Vesey St., New York.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Berberis Thunbergii, seedlings, 5 to 7 ins., $1.50 per 100; $12 per 1,000; transplanted, 8 to 12 ins., $2.50 per 100; $20 per 1,000. E. Y. Teas Co., Centerville, Ind.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock, fruit and shade trees, shrubs, evergreens. W. & T. Smith Co., Geneva, N. Y.

Nursery stock. Storrs & Harrison, Painesville, O.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORCHIDS.

Orchids, just arrived, Cattleya gigas Sanderiana, C. Bogotensis, C. gigas, Miltonia vexillaria. Lager & Hurrell, Summit, N. J.

Orchids, C. Mendelii, C. Gaskelliana, C. Mossiæ, C. gigas Hardyana, C. aurea, Miltonia vexillaria, M. Roezlii. G. L. Freeman, 388 Appleton St., Holyoke, Mass.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms, Areca lutescens, 4-in., 3 plts. in pot, 15-18 ins. high, $3 per doz.; $20 per 100. Kentia Bel., 6-in., 6 lvs., 24-26 ins., $1.75 each; 7-in., 6-7 lvs., 26-28 ins., $2; 7-in., 6-7 lvs., 30-32 ins., $3. Kentia Fors., 6-in., 5-6 lvs., 30-32 ins., $1.50; 6-in., 5-6 lvs., 34-36 ins., $2; 7-in., 5-6 lvs., 36-40 ins., $3. Latania Borb., 3-in., 3-4 lvs., 12-14 ins., $1 per doz.; $8 per 100; 4-in., 4-5 lvs., 14-16 ins., $2.50 per doz., $20 per 100. Phœnix Rœbeleni, 4-in., 75c each; $8 per doz. Vaughan's Seed Store, Chicago and New York.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, Jenning's strain, 1st size in bud and bloom, $1.25 per 100; 2nd size, bud and bloom, $1 per 100; strong plants bloom in April, $5 per 1,000; smaller size, $4; seeds, $1 per pkg.; 4,000 seeds, $4 per oz. E. B. Jennings, box 254, Southport, Conn.

Fancy strain pansy plants, extra large, stocky plants in bloom and bud, $15 per 1,000. Joy Floral Co., Nashville, Tenn.

Giant pansy plants, stocky, from fall sown seed, 50c per 100, prepaid; 1,000, not prepaid, $3.50. Chas. Frost, Kenilworth, N. J.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

Pansies, seedlings, 50c per 100; $2.50 per 1,000. Jos. H. Cunningham, Delaware, O.

Giant Ex. pansies in bloom, $2 per 100; $18 per 1,000. Geo. S. Baylies, Wenonah, N. J.

PANDANUS.

Pandanus utilis, 5-in., 15-18 ins., 50c each; $4 per doz. Vaughan's Seed Store, Chicago and New York.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

PEONIES.

Peonias, Double Chinensis. Order Now. 2 to 5 eye divisions in red, pink and white. Splendid values, $1 per doz.; $5.50 per 100. Our list of 116 varieties for fall planting now ready. Ask for it. All the good ones, including the latest varieties. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Peonies, distinct named kinds and colors; strong roots, $1 per doz.; $8 per 100. F. A. Baller, Bloomington, Ill.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

PETUNIAS.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., $3 per 100. Jos. H. Cunningham, Delaware, O.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Petunias, double mixed, R. C., $1 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

If you do not find what you need in our Ready Reference Department, write us about it.

PRIVET.

AMURENSE, AMOOR RIVER PRIVET—35,000 6 to 20 ins., for transplanting at $10 per 1,000; 10 per cent off for 5,000 or over; 25,000, 12 to 18 ins. at $12 per 1,000; 20,000, 18 to 24 ins. at $15 per 1,000; 12,000, 24 to 30 ins., $20 per 1,000; 30 to 36 ins., at $25 per 1,000. CALIFORNIA PRIVET, transplanting grade, 50,000 at $6 per 1,000, 10 per cent off for 5,000 or over; 30,000, 12 to 18 ins., at $10 per 1,000. All the above is number one stock, ready for immediate shipment. Delivered f. o. b. Cash with order. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

Choice selected C. PRIVET Cuttings, $1.50 per 1,000; $5 for 4,000; $10 for 10,000. Cash with order, packing free. Large privet for screens, 8 ft. high, $8 per 100. Atlantic Coast Nurseries, Asbury Park, N. J.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

Privet, dwarf Chinese, 3 to 4 ft., $15 per 100. Vaughan's Seed Store, Box V., Chicago.

RHODODENDRONS.

Rhododendrons. Parson's hardy vars., 8 to 12 buds, 18 to 24 ins., $75 per 100; 12 to 14, 24 to 30 ins., $100 per 100. Storrs & Harrison Co., Painesville, O.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROOTED CUTTINGS.

Rooted cuttings from soil, $1 per 100; Heliotrope, fuchsias, 4 vars.; cupheas, petunias, dbl. white; Vinca Var., feverfew, Little Gem; Coleus, Vers. and Golden Bedder; alternantheras, 4 vars., 50c per 100 from sand. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots and budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots and budded, $3 per doz.; $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins: Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $3 per doz.; $20 per 100; $150 per 1,000; 2nd size, budded, $2.50 per doz.; $16 per 100; $135 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Tree Baby Rambler, 1½ to 2½ ft., 75c each; $8 per doz.; 2½ to 3 ft., $1 each; $10 per doz. Killarney, 2-yr., budded, $2.50 per doz.; $18.50 per 100. Vaughan's Seed Store, Chicago and New York.

ROSES. American Beauty, 2 or 2½-in., $7 per 100; $65 per 1,000; 3 or 3½-in., $9 per 100; $85 per 1,000. My Maryland, grafted strong stock, 3 or 3½-in., $20 per 100. My Maryland, own roots, 3 or 3½-in., $12 per 100. Killarney, own roots, 2 or 2½-in., $6 per 100; $55 per 1,000; 3 or 3½-in., $7.50 per 100. Bridesmaid, Bride, Richmond, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Mrs. Potter Palmer, 2 or 2½-in. $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Perle, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Kaiserin, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Uncle John, 2 or 2½-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

GRAFTED AND OWN ROOT ROSES.

Grafted 2½-in. pots.	Per 100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

ROSE PLANTS.

2½-INCH STOCK.

	Per 100.	Per 1,000
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
K. Moulton	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Killarney	5.00	45.00
Kaiserin	4.00	35.00

WIETOR BROS.,
51 Wabash Avenue, Chicago, Ill.

Roses, dormant, field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, 1-year bench plants, Am. Beauty, $7 per 100; $65 per 1,000. Maid, grafted, $3.50 per 100; $30 per 1,000. Moulton, $3 per 100; $25 per 1,000. From 2½-in.: Maid, Bride, $3 per 100; $25 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Roses, hybrid perpetual, dormant field-grown, $11 per 100; $100 per 1,000. Moss, field-grown, $12 per 100. Hardy climbing, field-grown, $8 per 100. Tree roses, 4 to 5 ft., $30 per 100. Storrs & Harrison Co., Painesville, O.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, Richmond, Bride, Bridesmaid, 2-in., $2.50 per 100; $20 per 1,000; 2½-in., $3 per 100; $25 per 1,000; 3-in., $4 per 100; $35 per 1,000. E. B. Sage, Red Rock, McKean Co., Pa.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses. Ask for our catalogue and get your rose lists priced. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Roses, rooted cuttings, Perle and Kaiserin, $4 per 100; $35 per 1,000. Maid, Bride, Richmond, $2 per 100; $15 per 1,000. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses, teas, hybrid teas, climbers, hardy climbers and Ramblers, hardy hybrid perpetuals. See column adv. for prices in this issue. Leedle Floral Co., Springfield, O.

Roses, 2,500 2 to 2½-inch Richmonds, fine stock, $25 per 1,000. Sinner Bros., 60 Wabash Ave., Chicago.

Roses, Crimson Rambler, Trier, Dorothy Perkins, Lady Gay, $3 per 100; $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Rose, Taft, 2-in., $15 per 100. The Hyde Park Rose Co., Wasson Ave. and McCormick Rd., Hyde Park, Cincinnati, O.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, dwarf, climbing, tree and Ramblers. Bobbink & Atkins, Rutherford, N. J.

Roses (Rosa Laevigata), 2½-in., $3 per doz. City Nurseries, Redlands, Calif.

Roses. Chas. H. Totty, Madison, N. J.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

SALVIAS.

Zurich, type selected for 2 years, R. C., $1 per 100; $9 per 1,000; 2-in., 2½c. Bonfire and Lord Fauntleroy, R. C., 1c; 2-in., 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia splendens, Bonfire, R. C., 90c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

Salvias, 5 varieties, R. C., $1; 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

SEEDS.

Seeds, Asparagus plumosus nanus, northern greenhouse grown, 100 seeds, 50c; 250, $1; 1,000, $3.50; 5,000, $16.25. Sprengeri, 100 seeds, 15c; 250, 25c; 1,000, 75c; 5,000, $3.25. Alyssum Little Gem, tr. pkt., 10c; oz., 30c; ¼ lb., 75c. Aster Queen of the Market, all colors, tr. pkt., 10c; ¼ oz., 20c; oz., 50c; Carlson, tr. pkt., 25c; ¼ oz., 40c; oz., $1.50; Branching, tr. pkt., 10c; ¼ oz., 30c; oz., $1; Vaughan's Upright Branching White, tr. pkt., 25c; ¼ oz., 40c; oz., $1.50. Candytuft, giant hyacinth-flowered, tr. pkt., 5c; oz., 20c; ¼ lb., 50c. Castor Bean, Zanzibar, mixed, tr. pkt., 5c; oz., 10c; ¼ lb., 20c; Enormis, tr. pkt., 5c; oz., 15c; Panormitanus, tr. pkt., 10c; oz., 25c. Centaurea Cyanus, tr. pkt., 10c; ½ oz., 30c; oz., 60c; dbl. white, tr. pkt., 10c; ½ oz., 40c; oz., 75c. Cobea scandens, purple, tr. pkt., 10c; oz., 30c; ¼ lb., 90c. Cosmos, early white or pink, northern grown, tr. pkt., 10c; oz., 60c. Dianthus Hedd, Snow Queen, tr. pkt., 10c; ½ oz., 30c. Moon Vine, tr. pkt., 10c; oz., 30c. Mignonette Machet, tr. pkt., 10c; ½ oz., 25c; oz., 50c; Goliath, tr. pkt., 15c; ¼ oz., 25c; oz., 80c. Nasturtiums, Vaughan's Special mixture, tall or dwarf, oz., 10c; ¼ lb., 20c; lb., 60c. Phlox Drummondi, colors, each, tr. pkt., 10c; ¼ oz., 20c; oz., 60c; mixed, tr. pkt., 10c; ¼ oz., 15c; oz., 50c. Petunia, large flowering single, "Vaughan's Best" mixture, 1,000 seeds, 50c. Primula obconica grandi., white, rosea and mixed, each, tr. pkt., 50c; 1-32 oz., $1. Stocks, Giant Perfection, white, sky-blue, pink, scarlet, dark blue, each tr. pkt., 25c; ⅛ oz., 40c; oz., $2.50; Prince Bismarck, tr. pkt., 25c; White Column, tr. pkt., 25c; ⅛ oz., 60c. Verbena, "Vaughan's Best" mixture, tr. pkt., 25c; ¼ oz., 50c; oz., $2. Sweet Peas, White Spencer, oz., 15c; ¼ lb., 40c; lb., $1.50. Nora Unwin, oz., 10c; ¼ lb., 25c; lb., 80c. Dorothy Eckford, ¼ lb., 10c; lb., 30c; 5 lbs., $1.25; reselected, oz., 50c. Lady Grisel Hamilton, ¼ lb., 10c; lb., 25c; 5 lbs., $1.10. Mrs. Walter Wright, ¼ lb., 15c; lb., 45c. Bridesmaid, ¼ lb., 15c; lb., 40c. Gladys Unwin, oz., 10c; ¼ lb., 20c; lb., 50c. Countess Spencer, var., oz., 15c; ¼ lb., 40c; lb., $1.25. Button's Pink, ¼ lb., 15c; lb., 50c. Helen Lewis, ¼ lb., 20c; lb., 60c. Evelyn Byatt, ¼ lb., 15c; lb., 40c. King Edward VII, ¼ lb., 15c; lb., 40c. Queen Alexandra, ¼ lb., 15c; lb., 50c. Primrose Spencer, oz., 15c; ¼ lb., 35c; lb., $1.25. Hon. Mrs. Kenyon, ¼ lb., 10c; lb., 30c. Florence Frazer, ¼ lb., 15c; lb., 40c. Blanche Ferry, ¼ lb., 10c; lb., 20c. Vaughan's Seed Store, Chicago and New York.

Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis. Hambergia, pkt., 25c; Barnard's Perpetual, White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi., 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg, Pa.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. O. V. Zangen, Hoboken, N. J.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

If you do not find what you need in our Ready Reference Department, write us about it.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton C. Zvolanek, Boundbrook, N. J.

Seeds. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, Aster Lady Roosevelt, 400 seeds, $1. Allan Neilson, Chestertown, Md.

Seed, Asparagus plumosus, $2 per 1,000. Jos. H. Cunningham, Delaware, O.

Seeds of all kinds. Stokes' Seed Store, 219 Market St., Philadelphia.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds. D. Landreth Seed Co., Bristol, Pa.

Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SMILAX.

Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax. Wood Bros., Fishkill, N. Y.

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Spiræa Queen Alexandra, and Peach Blossom, in bud, 75c each; $8 per doz.; Blondin, in bud, 50c each; $5 per doz. Vaughan's Seed Store, Chicago and New York.

Spireas. Jac. Smits, Ltd., Naarden, Holland.

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Stevia, 2-in., 90c per 100. S. V. Smith, 3323 Goodman St., Philadelphia.

Stevia, fine 2-in., at $2.50 per 100. The Wallace Hornaday Co., Lawton, Okla.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

VEGETABLE PLANTS.

Vegetable plants, cabbage: Wakefield, Succession, $1.50 per 1,000. Egg plant: N. Y. Improved Black Beauty, 40c per 100; $3 per 1,000. Peppers: Bull Nose, Ruby King, Sweet Mountain, 40c per 100; $3 per 1,000; Chinese Giant and Cayenne, 50c per 100. Tomatoes: Earliana, Chalk's Jewel, Early June Pink, 30c per 100; $2 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, R. C., 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Lemon Verbenas, R. C., 75c per 100 prepaid. Chas. Frost, Kenilworth, N. J.

Verbenas, $2 per 100. Jos. H. Cunningham, Delaware, O.

VINCAS.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vincas, $1 per 100; $8 per 1,000, prepaid. C. Humfeld, Clay Center, Kans.

Vincas, var., 2¼-in., $2.50 per 100. Jos. H. Cunningham, Delaware, O.

Vinca variegated, R. C., $1; 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 300 for $5; 2½-in., J. C. Schmidt, Bristol, Pa.

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Violets, Baronne Rothschild, the freest, most fragrant and best paying single violet, R. C., $10 per 100. Chas. H. Totty, Madison, N. J.

Violet Blue rose. Ellwanger & Barry, Box Q, Rochester, N. Y.

Violets. Wood Bros., Fishkill, N. Y.

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Commission Dealers.

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Amling, E. C., 32-36 Randolph St., Chicago.
Berning, H. G., 1402 Pine St., St. Louis.
Deamud, J. B. Co., 51 Wabash Ave., Chicago.
Ford Bros., 48 W. 28th St., New York.
Froment, Horace E., 57 W. 28th St., N. Y.
Growers' Cut Flower Co., 39 W. 28th St., N. Y.
Guttman, Alex. J., 34 W. 28th St., New York.
Henshaw & Fenrich, 44 West 28th St., N. Y.
Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.
Hunt, E. H., 76 Wabash Ave., Chicago.
Kennicott Bros. Co., 48-50 Wabash, Chicago.
Kessler Bros., 50 W. 28th St., New York.
Keuhn, C. A., 1122 Pine St., St. Louis.
Krueger Bros., Toledo, O.
Langjahr, Alfred H., 55 W. 28th St., N. Y.
McCallum Co., 937 Liberty Ave., Pittsburg, Pa.
McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.
McKellar, Chas. W., 51 Wabash Ave., Chicago.
McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.
Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.
Millang Bros., 41 W. 28th St., New York.
Chas. Millang, 444 6th Ave., cor. 27th St., New York.
Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.
Murphy, Wm., 311 Main St., Cincinnati, O.
Niessen Co., Leo, 1208 Arch St., Philadelphia.
N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.
Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.
Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.
Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.
Pollworth, C. C. Co., Milwaukee, Wis.
Randall, A. L. Co., 19 Randolph St., Chicago.
Raynor, John I., 49 W. 28th St., New York.
Rice Bros., 128 N. 6th St., Minneapolis, Minn.
Riessen Floral Co., 21 S. Broadway, St. Louis.
Robinson, Henry M. & Co., 11-15 Province St., Boston.
Schreiner, Nicholas C., 41 W. 28th St., N. Y.
Seligman, John, 56 W. 26th St., New York.
Sheridan, Walter F., 39 W. 28th St., N. Y.
Smith & Co., W. C., 1316 Pine St., St. Louis.
Traendly & Schenck, 44 W. 28th St., N. Y.
Vaughan & Sperry, 58-60 Wabash Ave., Chicago.
Welch Bros., 226 Devonshire St., Boston.
Winterson, E. F. Co., 45-49 Wabash, Chicago.
Young, A. L. & Co., 54 W. 28th St., N. Y.
Young, John, 51 W. 28th St., N. Y.
Young, C. & Sons, 1406 Olive St., St. Louis.
Young & Nugent, 42 W. 28th St., New York.
Zech & Mann, 51 Wabash Ave., Chicago.

Growers.

Bassett & Washburn, 76-78 Wabash, Chicago.
Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.
Bruns, H. N., 1409-11 W. Madison, Chicago.
Budlong, J. A., 37-39 Randolph St., Chicago.
Elliott, W. H., Brighton, Mass.
Hill, The E. G. Co., Richmond, Ind.
Jensen & Dekema, 674 W. Foster Ave. Chicago.
Peacock Dahlia Farms, Atco, N. J.
Poehlmann Bros. Co., 35-37 Randolph, Chicago.
Reinberg, Peter, 35 Randolph St. Chicago.
State Nursery Co, Helena, Mont.
Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.
Weiland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

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Anderson, S. C.—The Anderson Floral Co., 533 Marshall Ave.
Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.
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Boston, Mass.—Hoffman, florist, 59 Massachusetts Ave.
Boston, Mass.—Frank H. Houghton, 396 Boylston St.
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Chicago—Hauswirth, Florist, Auditorium Annex.
Chicago—Wittbold, Florist, 1657 Buckingham Place.
Cincinnati, O.—Julius Baer, 138 E. 4th St.
Dayton, O.—Matthews, 16 W. 3rd St.
Colorado Springs, Colo.—Frank F. Crump.
Denver, Colo.—Daniels & Fisher.
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Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.
Galveston, Tex.—Mrs. M. A. Hansen.
Helena, Mont.—State Nursery Co.
Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.
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Kansas City—Samuel Murray, 1017 Broadway.
London, Eng.—Wills & Segar, Onslow Crescent, Kensington.
Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.
Louisville, Ky.—J. Schultz, 644 4th Ave.
Nashville, Tenn.—Joy Floral Co., 610 Church St.
New Orleans, La.—U. J. Virgin, 833 Canal St.
New York—M. A. Bowe, 1294 Broadway.
Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.
Owatonna, Minn.—Clinton Falls Greenhouses.
Philadelphia, Pa.—Robt. Kift, 1725 Chestnut St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.
San Francisco, Calif.—J. B. Boland, 60 Kearny St.
St. Louis—Fred H. Weber, Boyle and Maryland.
St. Louis, Mo.—Young's 1406 Olive St.
St. Paul, Minn.—Holm & Olson.
Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.
Toledo, O.—Krueger Bros.
Toronto, Ont.—Dunlop's, 96 Yonge St.
Washington, D. C.—Z. D. Blackistone, 14th and H Sts.
Washington, D. C.—A. Gude & Bros., 1214 F St.

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Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

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Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers. Meyers & Co., 1122 Betz Bldg., Philadelphia.

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Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

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Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouses and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

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Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress;" everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

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Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, New York.

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Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs.,$5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine. plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

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Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

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Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

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Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No right or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

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Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

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Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. Y.

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Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

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Putty, paint, etc. H. M. Hooker Co, 120-128 W. Washington St., Chicago.

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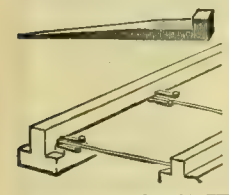

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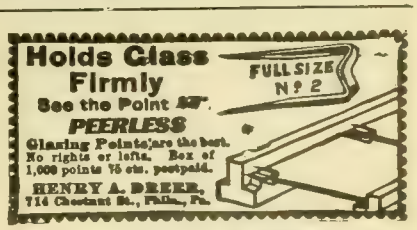

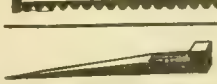

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French Mauve Lilac.

French mauve lilac, forced for shipment to the London markets during the week, according to The Times realized the remarkable prices of 48 and 60 shillings (a shilling is about 24 cents) a dozen bunches wholesale. Hitherto white forced French lilac has dominated the spring flower trade. The demand for mauve lilac so far exceeds the supply for, in London alone, florists are able to dispose of all the present shipments. For indoor table decoration mauve forced lilac will be particularly popular during the present season. Importers say that the high prices realized speak well for the future of the spring flower trade in London. Mauve violets from the south of France are also commanding similar prices to those quoted for mauve forced lilac. Sixty shillings a dozen bouquets for these violets can very seldom be depended upon in the markets. Never before have mauve-colored flowers met with such appreciation.—Horticultural Advertiser, February 3, 1909.

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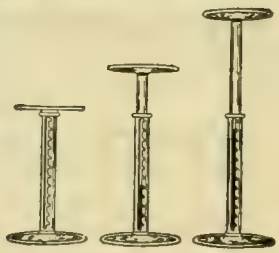

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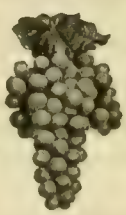

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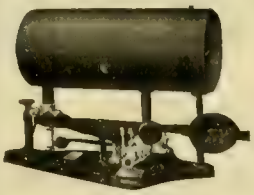

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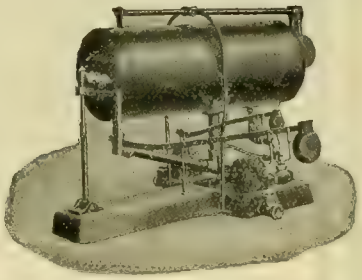

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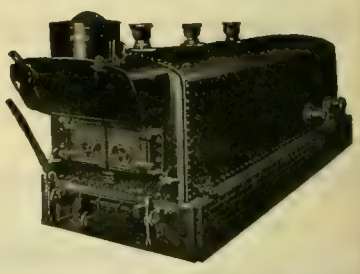

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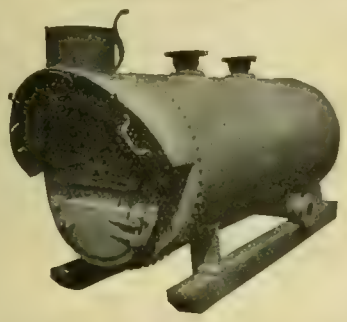

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The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

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Boilers, Tubes, Flues, Etc.,

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If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

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1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads: with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!

A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters.

Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

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HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

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SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy: greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

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IT is bound to cost you more to build in the near future. Save your money by building now. Give us a chance to estimate. We furnish plans free with all orders for materials.

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BUY FROM PHIL FOLEY
WHO RUNS THE FACTORY
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YOU WILL WEAR A SMILE
CAUSED BY PROFITS
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RESULTS
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BUY YOUR BUILDING MATERIAL - WOOD - IRON - GLASS FROM FOLEY

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The original machine with self-oiling cups. The most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter

Over six miles in use and highly recommended by all. The only **Drip Proof** gutter on the market.

The Standard Return Steam Trap

It has no equals for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, Ohio.

Albany, N. Y.

At the last regular monthly meeting of the Florists' Club, an interesting discussion was held by some of the members on the lateness of the season. President Fred Goldring said that the spring flowers have not yet appeared in his garden at Slingerlands nor in the woods adjacent to his home. Others told of work done last year outdoors that could not be taken up at all at the time of the meeting. It was the general opinion that the season is two or three weeks late. President Goldring named three committees to report on sick members who might reside in the north, south, and west ends of the city. The committees named are: North, Fred Henkes, Wm. Hannell, Louis Menand; south, Edward F. Meaney, Frank Connelly, John J. Berberick; west, Frank M. Briare, Patrick Hyde and Thos. F. Tracey. The matter of the flower show to be held in November was left wholly to the special committee, of which Fred A. Danker is chairman, to report upon at the earlest convenient time. Two new members were admitted.

Superintendent Philip Bender of the bureau of parks is busily engaged with plans for the spring and summer. Among the improvements contemplated is a greenhouse 26x52 feet to replace one of old construction in use by the park bureau on New Scotland avenue. Along one side of the new building will be a propagating house 11x52 feet. The walls for the combined structure will be of concrete surmounted by iron frame work of modern design. The installation will include a new hot water boiler with 4,600 square feet of radiation surface. Besides the greenhouse the superintendent has plans for a new tool and coal house 30 feet square to be erected on the north side of the lake house in Washington park. Thirty-five new electric lamps have recently been installed in Washington park and are supplied with current from conduits laid underground.

John D. Oliver, member of the wealthy plow manufacturing family at South Bend, Ind., recently ordered through Eyres some very handsome funeral designs for the funeral of Mrs. D. A. Wells, an old resident of Johnstown who died recently. The designs included a mat for the coffin made of 5,000 violets, White Killarney and Bride roses, a gates ajar upon a 42-inch frame, made up of cœlogyne, lily of the valley and violets; a pillow of Bride and White Killarney roses and a wreath of White Killarney and cattleyas on a 24-inch frame. Three men were sent from this city to Johnstown with the designs.

Fred Goldring, president of the Florists' Club, is receiving congratulations for the honor recently conferred upon his daughter, Winifred, who at Wellesley college has been awarded by the faculty a Durant scholarship granted only to students of the highest rank in the institution.

R. D.

They Have No Gutter at Eaves

which greatly increases their attractiveness and decreases the shade. One means a constant satisfaction; the other, unequalled productiveness.

They are the lightest, simplest, strongest and most durable houses, and cost less to maintain.

The ideal construction for private estates, parks, public institutions and florists' showrooms.

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DESIGNERS AND BUILDERS

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Have You Heard About the Sash Bar Hinge?

It is the only hinge to use on your greenhouse if you have ventilators opening at the ridge.

Write us, and we will tell you about it.

JOHN C. MONINGER CO.

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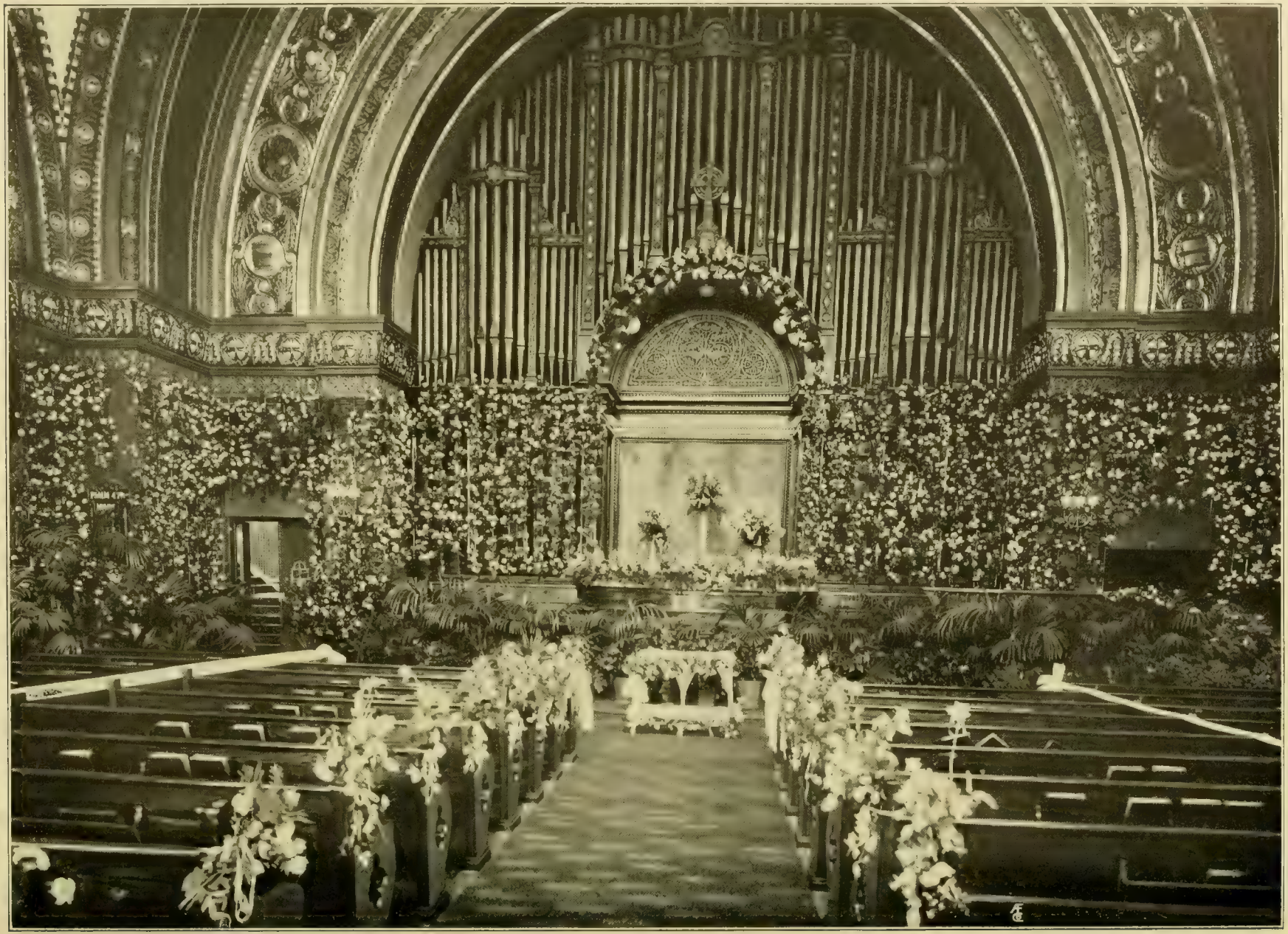

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THE AMERICAN FLORIST

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Vol. XXXII. **CHICAGO AND NEW YORK, APRIL 17, 1909** **No. 1089**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Wait A Li'l' While.

Col' win' a-blowin'—
Sun takes back his smile;
Can't be always winter;
Wait a li'l' while!

Soon see Mister Bluebird—
Sunshine on his bres';
His song is mighty little,
But he always sings his bes'!

He'll be dar, on de wire,
Chirpin' bout de May;
"Thankful fer de sunshine,"
Is de very word he say!

Whar he stay, I wonder,
We'n snow is comin' down?
But soon we'll tell him "Howdy!
Glad you come ter town!"

—Atlanta Constitution.

The Easter Business.

NOTHING startling has been brought to light by the Easter trade reports we are enabled again to publish through the courtesy of our correspondents, and nothing in the way of phenomenal prices were obtained or probably looked for but there seems, in spite of the inclement weather in many localities, to have been a steady rise in sales and this is satisfactory. As is always the case, there are some retailers who report poor sales. Local conditions are usually the cause of these occasional failures and the overwhelming number of satisfactory reports show a healthy and stable condition in the trade generally that is encouraging. Each year brings out the fact more prominently that, with the largely increased production of cut flowers and the cheaper grades of plants and the increased clientele among persons of moderate means, the days of inflated prices are over. There has to be a rise in prices at such times as Easter and Christmas and as far as this is caused by the law of supply and demand it is perfectly legitimate. But those growers and retailers who are alive to the fact that artificial inflation of values is not to the best interests of their trade will be they that reap the benefit of the good times that are coming, judging by appearances in all other lines of trade.

DETROIT, MICH.—J. F. Sullivan reports trade and prices about the same as last year, with all stock equal to the demand, except violets. Lilies, azaleas and bulb stock were the most popular plants in the order named. Cut roses did not sell well, but violets were in great demand and not enough were at command. Low priced plants were popular, but high priced baskets did not sell as well as formerly. Other stores, such as butchers and grocers, handled plants in quantity.

POUGHKEEPSIE, N. Y.—"Business this year was the best ever in every respect," said W. A. Saltford of the Saltford Flower Shop. "We had three times our usual number of lilies, but were cleaned up by Wednesday night. Everything else in cut flowers and plants was in plentiful supply, with a very large demand. Quality of stock excellent."

GAINSVILLE, GA.—J. E. Jackson reports trade as about the same as last year at similar prices. Flowering plants were short and there were not sufficient plants to meet the demand. Cyclamens, hyacinths and primulas did not sell as well as other pot stock, but prices were better than last year on cut roses and carnations.

GRAND RAPIDS, MICH.—Sales greater than last year at prices about the same is the report of the Grand Rapids Floral Co. Plants and flowers were equal to the demand, lilies and azaleas selling well in plants. There was little demand for red roses.

PARKERSBURG, W. VA.—J. W. Dudley & Son report a 10 per cent increase in sales over last year at prices about the same and plenty of all classes of stock. Hydrangeas sold best in pot stock, bulbous stock least, while in cut flowers violets and roses had the call, with carnations following closely. The cold and disagreeable weather necessitated the wrapping of all plants for delivery.

MONTREAL, QUE.—Trade here showed an increase of about 15 per cent, with rather better prices, except in lilies, which never vary much. Pot lilies were in short supply, also cut flowers generally and sold well. Spireas dragged rather. Bulbous stock was doubtless helped owing to the high price of roses and carnations. Roses in pots were fine and in great variety.—L.

FORT WAYNE, IND.—W. J. & M. S. Vesey report trade and prices about the same as last season, with stock equal to the demand, except for violets and carnations. Plants in red and white sold best but there was little demand for yellow, while the sale of bulb stock was poor. Cheap plants sold better than those of a higher grade.

NASHVILLE, TENN.—Good prices ruled here and there was a great increase in business. There was a good supply of both cut flowers and plants. Rambler roses and lilies sold well, azaleas slow. Easter day was fine, which helped to dispose of the great quantity of fine stock brought in by the growers.—M. C. D.

DAVENPORT, IA.—The "prices of former years ruled" according to Theo. Ewoldt, who reports trade as about equal to that of 1908. Lilies sold higher than usual. There were plenty of pot plants and also cut flowers with the exception of violets. Lilies ruled in the pot plants and every one had them in fine order. Good tulips sold well out—other bulb stock was a drag. The very windy cold weather was against shopping, especially for ladies.

SAVANNAH, GA.—A. C. Oelschig & Sons report nearly double last year's sales at good prices. More plants could have been sold, but there was plenty of cut flowers. Lilies were short, but customers took spireas instead. Roses and carnations were in good demand, in fact, all cut flowers, the shorter grades moving well for cemetery decoration.

BRAMPTON, ONT.—The Dale Estate reports greater sales than at last Easter but at no better prices. Plants were wanted and some cut flowers were short. Roses and carnations sold unusually well but bulbous stock was not much wanted. Undue competition caused lilies to be offered lower than the cost of production.

KOKOMO, IND.—W. W. Coles reports sales as 20 per cent above those of last year at prices about the same. Plants were scarce and carnations were in short supply. Lilies, hyacinths and daffodils sold well in plants; roses and carnations in cut flowers. Rose stock was especially good.

CINCINNATI, O.—There was a considerable falling off on sales here, but prices were maintained. Lilies were short in supply, also cut flowers, or probably the sales would have been greater. Everything was received in good order with the exception of some soft carnations and roses.—S.

BINGHAMTON, N. Y.—A 35 per cent increase at prices 10 per cent higher is how Wm. Moore sizes up his Easter trade. More cut flowers and plants could have been sold. Geraniums and azaleas sold best in plants and violets were in great demand.

ATLANTA, GA.—The Easter sales were about equal to those of last year, but not to those of 1907, according to the Atlanta Floral Co. Cut flowers and plants were equal to the demand.

THE RETAIL TRADE

THE European journals are commenting favorably on our supplementary illustrations which are being received with such great favor at home by wholesalers and retailers alike. On many retailer's counters throughout the country they are being displayed and are good business getters, as customers can easily see at a glance what they may expect in various designs. Keep them clean in a folder or otherwise and always have them handy.

A Boxwood Wreath.

SEE SUPPLEMENT WITH THIS ISSUE.

It hardly needs a practiced or artistic eye to see where an artistic boxwood wreath excels the ordinary, close-tied wreath as seen in too many instances about retailers' windows and stores. In its way the boxwood is as beautiful as any other plant in outline, while for color there are few to beat it, but, when stuffed in tight as sometimes seen, there is no grace or beauty about it. So tightly do some people tie their wreaths that one almost expects to see them take the shears and finish the job of clipping them into shape. An escaping spray or a leaf or two "out of place" is an abomination to these lovers of the stiff and inartistic whose wreaths and other designs always look as though they were all cast in one mould.

There is not, of course, the scope for originality about a boxwood wreath that there is in wreaths of cut flowers but there are many ways of using box to good effect, especially in designs for funerals and cemetery work. White or yellow flowers, such as Paper White narcissus or yellow chrysanthemums have a rather dead appearance over the usual greens and ferns but the glossy green of the boxwood brightens them up and throws them into greater contrast. At Christmas boxwood balls with a few winter berries are popular at parties while at any time the sprays are charming used sparingly in bouquets or wreaths. But the boxwood wreath, pure and simple may be made very attractive. Nothing looks so rich as a bright, deep red ribbon, the contrast being so very strong between this and the foliage. But, whatever way it is used, get away from the hard circle, ball or cross, let a few sprays escape from bondage.

The Art Floral Co., San Francisco.

One of the finest retail stores in the west, a well arranged, artistic and handsome place is that of the Art Floral Co. at 239 Post street, San Francisco. This store is located in the center of what will be the most fashionable retail shopping district of the city, and within a few blocks of the finest hotels, such as the St. Francis, Fairmont, Union Square, and various other places of the kind. The size of the store is 18x60 feet with a fine mezzanine floor, above which the office and display room for baskets and other novelties are located. Below is a large basement in which all the shipping and other work of that nature is done.

The interior of the store is finished in white enamel, with mirrors that are nine feet high running from the front of the place back 40 feet on both sides. The store is equipped with the latest improved Tungsten electric lamps, which give the very best illuminating results. The firm has been exceptionally careful throughout in the designing of the store so that it would be convenient in every respect for the handling of its business promptly and properly. The Art Floral Co. is to be congratulated on having such a well equipped, beautiful store while a glance at the stock displayed shows that only flowers of a high order of merit are handled.

Fine Standing Anchor.

The standing anchor reproduced herewith was the work of Geo. E. Lindeman, designer for Mills the Florist, Jacksonville, Fla., at the establishment of the latter. Roses, carnations and lily of the valley were used for the anchor, the base being composed of Easter lilies and cycas leaves. It was made to the order of the pilots of Tampa bay at a cost of $100.

The Chicago Stores at Easter.

A BRILLIANT DISPLAY.

Seldom has there been a finer display in the Chicago stores than at the recent Easter, all of the principal retailers having evidently made up their minds that a good time was coming and pre-

INTERIOR OF THE NEW STORE OF THE ART FLORAL CO., SAN FRANCISCO.

pared for it. The cut flower situation was fairly satisfactory on the whole but the scarcity of good American Beauty roses was keenly felt. Had this occurred at Christmas, however, it would have been a worse disaster as there is not at that time such a good variety of other stock at command. Lilies about met the demand though probably more would have been disposed of in some cases had they been forthcoming. Bulb-out stock was excellent both pot grown and cut the yellow daffodils, Narcissus poeticus, N. Golden Spur and others being exquisite while hyacinths, tulips, lily of the valley and others were in prime order. Azaleas were very plentiful also rhododendrons and hydrangeas though the latter, in many cases, were hardly developed. Rambler roses were elegant stock and there was a finer display of hybrid perpetuals in variety than usual.

Easter baskets were not quite so plentiful as usual but several retailers had them in splendid order. Without making any invidious comparisons we must say that the elegant creations of Harry Rowe on Madison street were well above the average, even of this clever artist's work. There is always something new and striking in Mr. Rowe's conceptions and, without running to extremes in any single direction, he always manages to put up something different and never misses an artistic and satisfying whole. Every plant in season now was represented but what struck the writer as the finest of all was the standard plants of Crimson Rambler rose with the stems draped with asparagus, chiffon and in other ways and the pots with ornamental coverings. All very simple when described, but the way they were treated lifts them quite out of the commonplace. Others were baskets of roses and azaleas, little bark covered boxes with various bulb stock and fine specimen hydrangeas. In all his efforts Mr. Rowe excelled himself this Easter and no eulogy is too strong for this class of work.

Easter found O. J. Friedman fairly well established in his fine new store on Michigan avenue and he was showing magnificent stock in all lines. His store and workroom combined are about 125 feet deep and 27 feet wide. How he managed to get his fine plate glass window fixed in the face of the glazier's strike and with the big department stores and others waiting the pleasure of the knights of the diamond is a secret he keeps, but he did it and perhaps his is the only window of this dimensions fitted in Chicago in many weeks. O. J. can evidently be very persuasive at times. He has probably never shown finer plants of azaleas, rhododendrons, heather, small and large, and other seasonable stock but when we mentioned American Beauty roses a cloud came over his features. The noveau art baskets, filled with fine azaleas, hydrangeas and various other Easter plants were a telling feature in the display which was arranged on a long stand running almost the entire length of the store. With this first rate location and the excellent facilities in the spacious workrooms at his disposal, Mr. Friedman naturally looks for a largely increased business and we trust he will have all the success his spirited policy deserves.

The Fleischman Floral Co.'s stock was first class in every particular and here we noted some of the finest plants of rhododenrons we have seen anywhere this season. Many were large specimen plants four or five feet high and as far through simply covered with fine flower trusses. The varieties were exquisite in all cases the soft mauve and pinks being especially fine. All through the Easter the hats, filled with violets proved splendid sellers and were a great attraction to the store. A large stand running the full depth of the store was filled with the choicest of pot stock and this was kept good as the plants were sold by bringing in fresh stock from the greenhouses. The cut flowers here are always of the finest and at Easter were no exception to the rule. Local advertising in the best mediums and giving in all cases good value to its customers has greatly helped this firm. John Mangel, A. Lange and the Bohannon Floral Co. all had excellent stock in great variety the cut flowers and pot plants at Mangel's being of exceptional merit.

STANDING ANCHOR BY MILLS THE FLORIST, JACKSONVILLE, FLA.

Base, Lilacs and Cycas Leaves. Anchor, Carnations, Roses and Lily of the Valley.

Wm. J. Smythe seems unfortunate with his windows at Easter. Last year an automobile crashed through his Michigan avenue window while this year just before getting them in order for Easter the large plate glass window on Thirty-first street was blown clean out by the heavy gale. Glaziers on strike and a hole like this in the store looked like a case of boarding up one side but some temporary windows were rigged up and a very creditable showing made of various Easter plants. The Easter baskets here were of exceptional quality. Some of Mr. Smythe's all yellow arrangements of genistas, narcissi and yellow hyacinths tied with rich golden yellow ribbon were exquisite and a novel idea. The birds-nest ferns, foliage begonias and many of the most popular plants such as lilies, Primula obconica and others were used with fine effect and placing the little yellow Japanese ducklings among the foliage was quaint and good. All kinds of small devices in various kinds of metal and willow ware, china and birch bark gave variety to the stock and among the pot plants were some remarkably good roses including the hybrid perpetuals Ulrich Brunner, Magna Charta and others and all the more popular ramblers.

A. McAdams of Fifty-third street and Kimbark avenue returned from his Florida trip in time for his Easter trade. As usual, he had a fine lot of bulb stock as well as plants of all kinds in great variety and he was very busy all through the Easter. Small and medium sized baskets, birch bark boxes and small fern dishes are largely handled here and many of these were remarkably good. Mr. McAdams also showed a fine assortment of brass ware and some very elegant china fern baskets which were very fine indeed. Here we saw the finest lot of Easter lilies we have noted this season. The plants were a little on the short side, but the flowers were splendid and the foliage exceptionally strong, heavy and green. A great variety of ferns and

Croton Reedii.

other stock is grown here which aids materially in the made-up work and all spring flowering stock such as deutzias, spireas, azaleas, cinerarias and others were in excellent shape for the holiday.

Out at Schiller's on West Madison street we found Geo. Asmus smiling and busy. The new store has now got down into good working order and is especially suitable for handling a large trade. The large double fronted store is roomy and open with fine expansive windows, these and the store being floored with mosaic tiles. At the rear of the store on one side there is a large conservatory in which stock is grown and shown and this runs clear back to the rear where goods may be delivered without going through the store. The workrooms, coal room and store rooms on the other side of the store are along the same ample lines, everything being finely arranged to handle a brisk trade. The underground cool room is an excellent idea, the temperature keeping cool without ice yet not too cool for the stock which matures and keeps in splendid order there. We noticed a pretty idea here for Easter window decoration. Pretty little pink everlastings were wired on boxwood and the deep green of the box showed up the pink of the flowers finely. On approaching the store we thought that the mullions and sides of the windows were draped with Lady Gay or Dorothy Perkins roses until we got close enough to see what it was. It is a decidedly good idea as it is not costly and lasts extremely well. Mr. Asmus also used it on the handles of his Easter baskets with good effect. All seasonable stock was in good shape and well displayed and a magnificent lot of lilies were handled. Altogether the store is one of the finest and most commodious in the city and very finely equipped.

CHAMPAIGN, ILL.—Lee Woodard, foreman for Thos. Franks & Son, has resigned his position and on May 1 takes charge of a greenhouse he has purchased for $4,500 at Indianapolis. Messrs. Franks have secured a good successor to Mr. Woodard.

Notes on Crotons.

Crotons will always be popular as small plants for table, veranda and other decorations as well as for summer bedding, and those plant growers who do not grow them are missing a profitable branch of the business. Although crotons require considerable heat, their culture, when this is given, is very simple and may be taken in hand with every prospect of success by anyone having experience in ordinary plant cultivation. A stock of plants is easily kept up where there are old plants of suitable varieties for the purpose, but it takes some time to work up a good stock from the small plants sent out by market plant growers. The present is a good time to commence, though croton growers have been working stock all through the fall and winter—since fire heat was used in the houses.

Cuttings are made by taking wood that is only half ripened—wood of the previous season. Cut this about four to six inches or more in length according

Croton Baronne de Rothschild.

to the variety and insert the cuttings in a bottom heat of 80° or 85° in sand kept always moist. The cuttings may be set fairly close together, as in this way they help to support each other, and the leaves are kept upright or nearly so, while the short time they are in the sand prevents any injury to them: these may, in fact, be kept on and help to increase root action if ordinary care is used, both at potting and in the after treatment. Respecting their care while in the sand, keep the house or propagating case close and moist, and damp the heads of the cuttings regularly as well as the sand. When rooted, which will be easily seen by a stiffening of the foliage, they may be potted in 2½-inch pots and stood on a bench in the same house they were struck in, standing them fairly close and spraying the leaves regularly two or three times daily according to the weather. For a time after coming out of the propagating bed the temperature must be kept well up and abundance of atmospheric moisture maintained, but as the plants get established the temperature can be reduced and less moisture allowed, though at no time must crotons be exposed to a dry atmosphere while growing—only when the plants are being hardened for sale or for planting out.

As a rule it will be most convenient to remove the young stock from the house in which they were rooted as soon as the roots are running well in the new compost, but this, of course, is a matter for individual growers to arrange and will differ according to circumstances. In any case the more gradual the change from the too enervating conditions obtaining in the propagating house to the more natural temperature of the growing quarters the better. Sudden changes in the temperature will cause the foliage to give way and fall, or at least to check its growth, and must be avoided. In the growing quarters proper the plants must be stood well apart in benches surfaced with ashes or gravel to allow of plenty of light reaching them from all sides and also to enable the grower to spray regularly the under sides of the leaves and damp between the pots. From this on the growing is a simple matter of shifting the plants to larger pots as becomes necessary, and always maintaining a genial growing atmosphere around them. Crotons delight in sun, and nothing else will bring out their fine coloring. It is seldom necessary to shade them except in the hottest and brightest weather, and then only a thin shade is needed to just break the rays of the sun, yet insure plenty of light at all times.

A more rapid method of obtaining good plants is by the old plan of ringing and mossing. Make an incision in the bark at a convenient place according to the size of the plant it is intended to take off and bind this with moss. Never let the moss get dry or the plants will not root. When roots can be seen coming through the moss cut the plants off below the incision and pot in the usual way, removing any loose moss without injuring the young roots. After potting, the plants should receive the same treatment as advised for newly rooted specimens from cuttings. Another interesting

Croton Spiralis.

method of raising crotons is from seed, the seed being obtained by crossing the varieties, first allowing them to flower. This hardly comes under the scope of the ordinary plant grower, but it may well be taken up with advantage, as many interesting and useful varieties may be raised this way, and, even if they are not any improvement on existing kinds they will at least be healthy, vigorous plants for trade purposes. Always harden plants off a little before shipping or using for bedding. This is done by gradually lowering the temperature, increasing the air and, as far as the plants will stand it, giving full exposure to sun.

COMMERCIAL.

Greenhouse Stock for New Jersey.

ED. AMERICAN FLORIST:

Will you please state in your columns what would pay me the best to stock up two houses, each being 80 feet long and 16 feet wide, that I can give any temperature required. Also state the temperature that would be necessary to grow said plants.

Newark. A. M. C.

"A. M. C." does not say whether he wants to grow plants or flowers for wholesale or retail business which makes the matter of answering his question, intelligently, very difficult. If he is located where he can dispose of pot plants readily at retail, these would certainly give him the best returns. Bedding plants for this spring's sale is a little late to start with now, unless he has a fair stock on hand; failing this provision then he can procure young stock of such kinds of plants as can readily be sold at fair prices when in bloom, and the only way to get the information as to the best varieties to grow is to watch the local conditions carefully and see what kinds of plants are in most demand. Or if this proposition does not meet with his approval, there are other things he can grow for next season's sales such as sweet peas, lettuce, radishes, etc. These things if well grown in a greenhouse are sure to find a ready sale, once it gets known that a reasonable steady supply can be obtained. This is if your correspondent is located near any reasonable sized town. Or again, if this proposition does not meet his views he can procure a good stock of carnations, fill his two houses with these, and sell the flowers either retail or to the florist stores in the nearest city.

The temperature best suitable for carnations is an average of 54° at night, with plenty of air on all bright days. For sweet peas or lettuce 45° to 50° according to weather conditions, with an abundance of air on all favorable times. For flowering or foliage plants there is a wide range in the requirements as regards temperature. Those classed as general greenhouse plants can be grown in 50° to 55° while the more tender plants such as begonias, palms, etc., need considerable higher temperatures to do them at their best.

"A. M. C." can start now with chrysanthemum rooted cuttings, or small pot plants, grow them for first fall crop, in one house and plant the other with best variety of early fruiting tomatoes. Then as soon as the chrysanthemums are over, fill up in succession with sweet peas or any other crop desired. Any or all of these things find ready buyers if the stock is well grown.

JOHN N. MAY.

CROTON SUNSHINE.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Cornflowers.

The blue cornflower, Cyanus minor, cannot be planted too early after the ground can be worked. Those growers who sowed in late fall will have strong stock to plant out which will be in flower well before the spring sown plants while seed sown again now in the open air and the plants thinned to the proper distance later will form a good succession to either. Although the plants continue to produce flowers over a long season the earliest produced are always the finest both for size and color and this makes the successional plants necessary, the small flowers not being so satisfactory for cutting. Probably the finest and earliest flowers from outdoors are they that are produced on self sown plants that have stood the winter outside in localities where they will do so.

Gypsophila Paniculata.

The pretty soft panicles of flowers produced by this plant are excellent for mixing with almost any kind of more showy stock and as it is so easily grown and practically takes care of itself the year through, a block of it should be grown by all who have the room. The name implies a liking for soil impregnated with lime but this, although an advantage, is not absolutely essential. Plants should be obtained at once and planted in an open, sunny position and these will flower well the coming summer and go on improving yearly. Seed may also be sown now and the resulting plants pricked out in nursery beds where they will make fine stock for planting another season. The double form figured in the issue of April 3, page 504 stands even better when cut than the ordinary form and is a very fine plant.

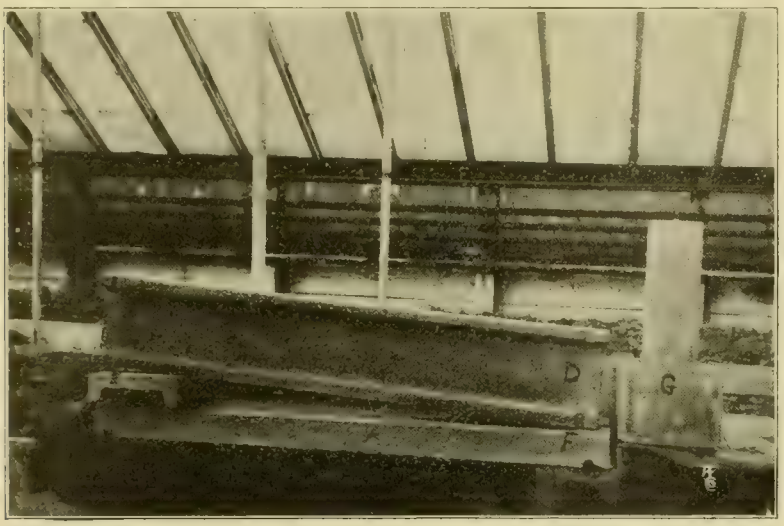
Bouvardias.

See that the young stock in pots is not allowed to get hard or run away to flower. Keep the shoots pinched and, if necessary, give a shift to a larger size pot. This should, if possible, be avoided as the bouvardia is not a strong rooting subject in the earlier stages and is easily over watered. At no time after they are established in the pots do they need much heat. A cool airy house with a comparatively dry atmosphere suits them best. Keep the plants well up to the light and keep a close watch for insects. Green fly and red spider are most to be feared, the latter only appearing in an unhealthy atmosphere unless it is already present in other plants in their vicinity. Spraying regularly with cold water will soon clean them of the spider and light fumigation is best for the green fly. With the increased sunlight the old plants on the benches will take a new lease of life and, if the flowers are likely to be needed, they will pay for a picking over, a light top-dressing of rich soil and a clean up generally. The plants will be none the

worse or less suitable for planting out later for they will have plenty of time to make a fine growth during the summer months if they are needed for another season. They are not usually worth keeping, however, after the second year as younger stock is more free in growth and produces finer flowers.

Perennials for Cutting.

The growth of some of the finer hardy perennials and biennials for cutting is a profitable branch of the business that is to a great extent neglected. A retailer who has his own greenhouses and a little land around them may add very considerably to his profits by going into their culture systematically. The finest flowers are not produced by planting a border of hardy stock in mixed kinds and leaving it alone year after year. Young vigorous stock grown on well prepared land is the only kind that pays for the trouble. Those who have followed our notes on this subject should have plenty of young stock ready to plant out but those who have not raised it for themselves may purchase clean healthy stock out of pots now and get it planted out at once or as soon as the land can be got in trim. For cutting purposes we prefer to make narrow beds about five or six feet wide with paths between as these are much more handy when cutting or shading the flowers or carrying out the necessary cultural operations. Among the useful kinds that may be planted now are gaillardias. The soil for these should be well cultivated rather than over rich and the plants may go out at one foot apart each way. Plant firmly and in such a position that they may be readily shown. The lupins, too, of the polyphyllus section, especially the white and rose pink forms, are excellent for cutting. They need more room than the gaillardias and like a fairly rich soil. Delphiniums are always good sellers, especially the deep blue forms. Seedling plants raised last fall will soon be pushing up their shoots and when these are an inch or so high is the best time to plant. One foot apart for the first season is room enough for the plants and the next season every other plant should be taken out and replanted, at the same time giving those remaining a liberal top dressing of manure. The many varieties of Pyrethrum roseum are among the finest plants for cutting and should be freely planted as advised for gaillardias. Of the yellow composites of the sunflower, rudbeckia and helenium order there are many useful plants and their perfect hardiness and ability to thrive under adverse conditions make them profitable to grow. A word of caution may be given in regard to such as Harpalium rigidum, which, when once planted, wants the whole garden to itself. In a semi-wild spot or on quarters that one is not particular about they will, however, throw great quantities of flowers at a very little expense or trouble to the grower. These few varieties named are not a tithe of the many fine things that may be included in the list but they will do for a start and, grown in quantity, may be added to at any time.



CONCRETE BENCHES.
Fig. 1.—Sills or Side Sections.

Callas.

After Easter the call for callas is not likely to be very heavy and the room they are taking up may be more profitably used. There are usually places such as alongside the walks or corridors or some not very valuable space in which the plants may be placed to finish their growth a little and be gradually dried off before being placed outside in the full sun. Few growers take the trouble to propagate these plants, preferring to purchase new bulbs in fall if the stock is to be increased or to make good any that are too old to grow again. And the bulbs are offered at such a cheap rate that it does not pay northern growers to bother with them. If propagation is desired the young shoots that crowd around the old crowns may be broken off with a little root, potted and stood on a bench close together to be planted out later or they may be left on now and potted separately in fall when the stock is brought in. As soon as all danger of severe frost has passed stand the plants outdoors in the full sun and, after watering them two or three times till they get over the change, let them alone to dry off. No other attention will be necessary until all the foliage has fallen and the bulbs have had a thorough roasting in the sun when they may be shaken out and potted in new soil for another season.

Peonies.

A method of increasing peonies that is not by any means new, yet is very seldom practiced may be noted now. A box about 15 inches square with sides about a foot high and no bottom or cover is placed over dormant roots in the open ground. This is filled with light soil to within about three inches of the top. As the plants push up the growths will soon reach the surface and will go on and flower in the ordinary way. If this soil is kept moist through the growing season the shoots will root freely in it and by the end of summer it will be practically full of roots below. In October the box is lifted and the loose soil removed when the stems will be found to have made fine eyes just below the surface and the plants can be lifted and easily divided with good roots and eyes attached to each portion. These may then be planted out in the usual way. With regard to spring planting of peonies many growers who have been unsuccessful with it should try the effect of leaving their plants until they start naturally into growth and replant when the growth is a couple of inches in height. By looking after them carefully for a week or two after planting, keeping the roots moist and protecting the tops a

CONCRETE BENCHES.
Fig. 2.—Bottom Sections.

little from sun and drying winds they will grow away and hardly feel the removal while, had they been lifted when dormant, it is quite likely they would remain dormant, if not all the season at least long enough to prevent their making a good growth or flowering freely. Those who grow for cut flowers only need only a few varieties and these of the best in their respective colors, but for garden decoration a collection of named kinds is very interesting.

Gladioli.

Flats or pots containing Gladiolus The Bride should be kept in a good light. Avoid anything approaching a forcing temperature as such will always be unsatisfactory. It does not hasten the flowers much but weakens the growth and renders it liable to insect attacks. A cool airy house, on the other hand, brings the plants along naturally. Sometimes, even with the best care, the foliage is attacked by green fly and if this occurs several light fumigations are necessary before the plants are clean. The day after fumigating, spray the foliage if the weather is bright. The Gandavensis and other hybrids are becoming very popular as cut flowers, especially such fine kinds as America (pink), Augusta (white), and May (white and crimson). The uncertainty of the price of these flowers prevents many going into their culture outside, but there is always a demand for the early flowers produced under glass and the bulbs may be planted on the benches as a catch crop after violets or other crops have been thrown out. Some growers believe in planting between carnations and other crops on benches devoted to their culture, thinking that they save room by doing so. But there is no gain; if carnations are planted at the proper distance apart there is no room for anything else and the addition of gladioli or anything else is a drawback to them. Planting outdoors is in order now just as soon as the ground can be worked. Plant in lines in beds about five feet wide. Stakes about four feet high should be driven in the corners of the beds and at intervals of about six feet along each side and, when shading becomes necessary, a light batten can be run around to hold up a single thickness of cheese cloth or some light goods to break the full force of the sun. This enables the grower to cut fine spikes with the lower flowers open and those higher up just ready to open. Such spikes give much better satisfaction to retailers than those cut with only one or two flowers open and the upper part hard in bud or with the lower flowers past their best as they soon will be if exposed to the full sun. A light soil, well enriched with old, partly decayed cow manure is best for gladioli and in such soils they not only flower well but increase rapidly.

Potting Greenhouse Plants.

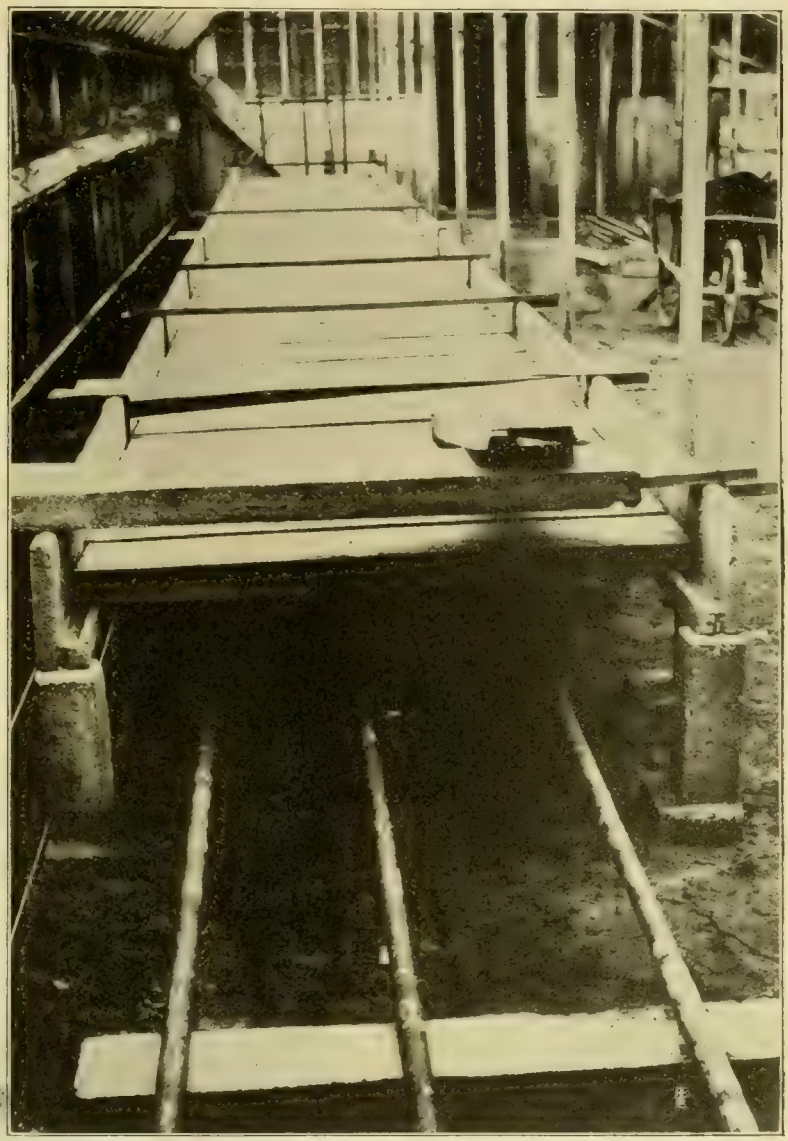
ED. AMERICAN FLORIST:—

Is it the general rule with pot plants to shift into larger pots as soon as the bottom and sides are well rooted? Do large pots retard top growth?

E. W.

To your first question, yes. To the second, no, unless the pots are too large and the soil overwatered, in which case the roots would suffer first and afterwards the heads.

A DRAFT ordinance has been published prohibiting the importation of the water hyacinth into Ceylon, under a penalty of 200 rupees ($62.40).



CONCRETE BENCHES.

Fig. 3.—Showing How Sections Lock Together.

Concrete Benches.

This form of constructing benches is evidently being given more consideration each year. The necessity of using a material which will afford permanency and at the same time not impair the growth of the stock must appeal to every florist. It is true such construction is still in the experimental state so far as its universal use is concerned. There are several who believe they have solved the problem, and doubtless they have from their point of view. But we should be liberal in our views and remember there are many men of many minds and improved methods are very likely to be worked out when united and concentrated thought is brought to bear on this subject.

We understand there are some who have tried concrete benches and are disappointed with the results, or, to be more exact, the quality of the stock produced therefrom was not up to the standard. There must have been something radically wrong in the construction and in all probability lack of drainage was the cause. We have been using concrete benches for several years and we can see no difference between the quality of stock produced on these or on board benches. We must endorse the quotation from Robt. Simpson which appears in the last issue of your Boston contemporary.

There are two ways of making concrete, one the wet system in which the material is mixed so that it is mud like, or the consistency of thick cream, so that it will flow free enough to fill the mold. The other is known as the dry system which is used in making concrete blocks. Here the material is only dampened enough so that the particles will hold together after being tamped firm and thus retain the form of the section being constructed when removed from the mold. These sections are then allowed to dry, but not reach their maximum strength until they have absorbed sufficient water.

In the first method the concrete thus formed is not porous, because the liberal amount of water has removed all the air between the particles which compose it. In the dry system the concrete is porous for the reason it is impossible to tamp the semi-dry material hard enough to dispose of the air spaces between its particles. These reverse condi-

tions can easily be demonstrated by making two slabs. Take any ordinary flat such as is used for growing plants; make one with a light bottom into which pour the wet mixture and tamp another full of the semi-dry, and when both are sufficiently hard to handle, note the difference in the amount of water they will take up.

Our sections are made of ashes and Portland cement, four parts ashes to one of cement, and are so porous that we have to be careful that the plants do not become too dry at the bottom and sides of the benches. It is certainly a great relief not to have to repair benches before refilling. When properly constructed, with a good foundation of concrete under each post so there is no danger of settling, these benches should remain in perfect condition for many years.

Fig. 1 shows the sills or side sections which are 54 inches long and reinforced with steel rods: A, outside, which comes next to the walk. B, the inside, showing flange on which the bottom sections rest. C, end view. Fig. 2 represents the bottom section, D, under side; E, end view; F, edge; G, post. The bottom sections are reinforced with steel rods at two outside edges, and at this point 2½ inches in thickness and at the center 1¼ inches. Fig. 3 shows how these sections lock together. Fig. 4 gives the general appearance of the bench when complete. This system has been very satisfactory with us and we shall continue this form of construction until an improved method appeals to us.

ELMER D. SMITH.

THE ROSE.

The Rose Grower's Problems.

A paper read by W. H. Elliott, Brighton, Mass., before the New York Florists' Club, April 12.

I do not think there was ever a time when I felt so hopelessly unable to rise to the demands of the occasion as at the present. To interest in any way the members of this club, or the rose growers of this, the greatest floral center in the world, would seem enough to undertake under ordinary conditions; but it seems hard indeed, coming as I do now, with a sorrowful and heavy heart caused by the going out of that brilliantly beautiful personality, E. V. Hallock, that it has been our great privilege to know, to honor and to love. No matter how bright the light of his genial, kindly countenance shines in our hearts and memory, or how thankful we may feel to have known him, it will be impossible to go on with our ordinary, everyday affairs without something of that serious and thoughtful life entering into our thoughts and meditations. Under these conditions I know you will expect the few words I have to say to you tonight to be a deeper, more serious view of the rose grower's problems.

You who are rose growers know, and those thinking of entering upon that career should know, that it is necessary to consecrate your lives to this work. It must not be taken up without very serious consideration. The only way to succeed is to pay the price, and that is an overwhelming and everlasting determination to put forth every ounce of energy you have. You must make it your religion and your life,—and why not? You must enter into partnership with the power that moves the universe. What grander work than developing the beauties of nature that thousands may have pleasure?

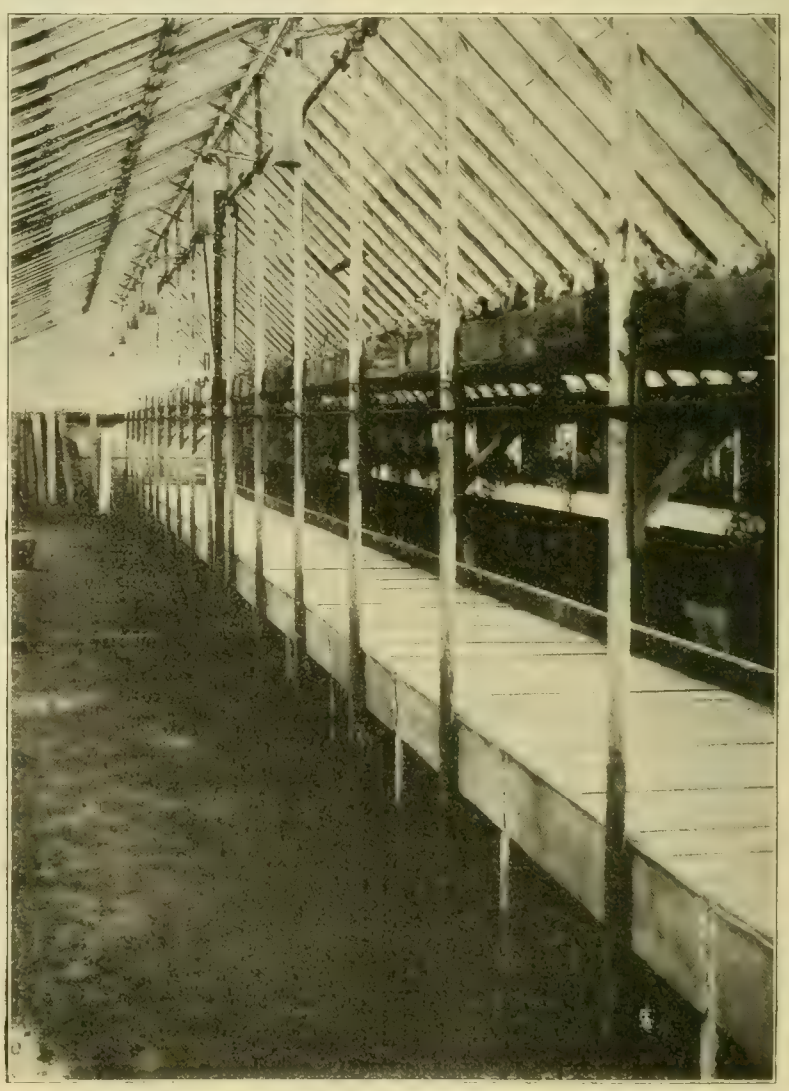
THE BEST LOCATION.

To those starting new, and to many who are not well located, a proper site for a rose growing plant is of the greatest importance. First, a good soil, an abundant water supply, a large level tract of land near the railroad station (it is better to go 25 miles farther out into the country, if you can get two miles nearer the railroad station, as the extra cost of teaming coal over that two miles, will a great deal more than make up for the extra expense in express). A large farm in a small town will usually solve this problem best, as in larger towns, farms are too great a distance from the station. A full and complete plan of an up-to-date rose growing plant will require a great deal of care, time and serious thought. All of us should plan ahead carefully what we intend to do, changing and rechanging for years, that we may develop along the best lines.

My recommendation is the large house. My latest house 60x1340 feet I find none too large. The advantages over smaller houses are many and are summed up in the fact that they produce better stock and more of it. We do not find that those that have built the large houses have given them up and gone back to the smaller ones. Those who have built large houses build still larger when they build again. The report from North Wales, Pa., is that their house built two years ago is too small, although 150 feet wide. They have now planned, and I believe have under way, in the construction of a house that is 172 feet wide and 700 feet long; over 110,000 feet under one roof. With proper construction, and good construction is absolutely necessary in these large, high houses, I believe that such a house will be a success, although I might hesitate to recommend the building of such a house.

COURAGE NEEDED.

But investment is necessary to carry out a properly planned rose growing business. First of all, you will have to invest your whole heart and soul, all your courage, and be ready to put in at all times, good large amounts of patience, and untiring hard work. Also a love for your business and the rose, like the love of a mother for her offspring. You will also need some money, but that is quite a secondary matter to the stock of courage that you should have on hand.



CONCRETE BENCHES.

Fig. 4.—The Bench Complete.

The best roses are not grown by any secret process, but by the most careful attention to every detail. Eternal vigilance is the price of good roses. You will find it true every time that the man who produces superior stock, does so by a more careful and painstaking method. If anything has been accomplished by the use of chemicals, I should like to know it. I have not been able to obtain good results from their use. I find plenty of care and cow manure produces much better and surer results. Do not deceive yourself in regard to reasons for success. We sometimes know why we fail, but why we succeed is much harder to answer. When they grow well, there is 4,000 reasons why they do so. We may know what a dozen of them are, and if, by chance, we learn one or two more, we then think we have solved the whole problem.

WORK OF THE EXPERIMENT STATIONS.

Are we getting from the experiment stations all we should? How many of us make any effort to get that knowledge, or to assist them in any way with the work that they are doing? I don't think we have used the experiment stations fairly. They are doing a great work, and should be called on to help us in the solving of many of our problems.

Aim to cut your roses when the demand is good. The grower that produces a large supply on an overstocked market and a small supply when the market is short, must not expect to get a very large return. In Boston we have a good demand in August; in October the rose market seems always to be overstocked. From the middle of January to the middle of February is a very short time. This is the time that takes our best efforts to cover. Is the demand for the very best grown roses as good as it ought to be? We seem to have much more trouble to dispose of our high-grade stock, than we do of the smaller grades. I hope you will do better in New York.

How do you decide which old kind to give up to make room for the new? What are you going to take out to make room for White Killarney? Will you give up Bride this year? Do you think that White Killarney will replace the Bride? Have you given up your Bridesmaid, and are you growing Killarney instead? I have given up Bridesmaid; next year I expect to give Bride up. What about the other new kinds? Which ones will you continue to grow for the coming year? Rhea Reid I shall continue to grow, but not very extensively. This rose came very near to being one of the best roses ever produced. My Maryland I think very well of, as a good, safe one to grow. William R. Smith is a very promising rose for summer. I intend to grow it, but only to a limited extent. Kaiserin does not give any light-colored summer rose much show. Mrs. Jardine and Queen Beatrice I have discarded.

In closing, the last word I will say in regard to the economy and saving that I have found best to practice: For many years, at the first, I thought it most important to save my money, but I now find that the money is not near as important as the saving of your nerve force, your courage and brain force, also your health and bodily force, and with what is expected of you in these high-pressure times, you will need them all.

To Be Done Now.

IN THE GREENHOUSES.

Push on with all the necessary propagating while there is still some heat being used in the houses.

Keep an eye on the shading and see that tender growths are not exposed to bright bursts of sunshine.

Keep the young rose stock well apart so the air reaches all parts of the plants or they will lose much foliage later when planted on the benches.

Spread out the bedding geraniums and pot any that still remain in the propagating benches.

Give the hydrangeas for Memorial day, a new stand with plenty of room and tie the shoots out a little from the center.

Water the newly potted cyclamens with care and if any curled leaves are seen examine them carefully for insects.

Tie out calceolarias and, where the pots are well filled with roots, give weekly waterings with liquid manure until the flowers show color.

See that the young fuchsias are not allowed to get potbound or they will flower now and this will detract from their flowering later.

Keep a bright lookout for green fly. This is the worst season of the year for it and the time when it works most injury on account of the tender condition of much of the young growth.

Do not allow young plants of Solanum jasminoides to flower in the small pots yet or the growth will be stunted and they will not be so attractive at planting time.

Unless there is a demand for the flowers keep the buds pinched off the bedding geraniums as their flowering only weakens the plants with no benefit.

OUTDOORS.

Finish all shrub pruning with the exception of roses without delay. The time for these must depend upon the locality and the likelihood of severe frost next month.

Re-graft old apple, pear and other fruit trees that were headed back for the purpose earlier in the season. Put in plenty of grafts as this results in the quicker formation of good fruiting heads.

Prepare plenty of fine soil for covering fine seeds of hardy annuals and other kinds. Some burnt earth is an excellent addition, also sand or road grit.

Prepare the quarters for dahlias with especial care. Insects are never so troublesome in early prepared borders as they are when the soil is allowed to lie until just before it is needed. Use plenty of manure.

Continue to sow sweet peas at intervals according to the demand. Give them good, well prepared soil.

Clean up the bulb beds and where any have missed fill in with the extra bulbs planted on the side if this was not neglected.

Plant hardy perennials as early as possible and give a slight protection to any that are starting into growth.

Finish all repairs to lawns, tennis courts and the turf in playgrounds. The seed sown in bare spots should be covered with fine soil and any crevices between sods also filled up.

Seaweed as Fertilizer.

Consul Douglas Jenkins, of St. Pierre Island, which is off the southern coast of Newfoundland, sends the following report on the use there of seaweed for enriching the soil: "Seaweed as a fertilizer is very much appreciated by the French fishermen who cultivate little vegetable gardens on St. Pierre and Dog islands. Even the farmers of Miquelon and Langley, the two large islands in the group, find the sea grass deposited in large quantities along the shore equally as valuable as manure from the barnyards.

"Only Miquelon and Langley can be said to have any agricultural interests whatever, but, in spite of prevailing high winds and a rocky soil, it is surprising what quantities of vegetables are produced in the little patches of ground fit for cultivation on St. Pierre and Dog islands. Dog island seems to be little more than a great rock, and St. Pierre is not much better, but here and there in the 'pockets' are found little plots of earth. These are carefully and gradually developed by annual applications of seaweed until the maximum of production is reached. From that time on the weed is used to maintain the strength of the soil.

"Seaweed is used for fertilizer in some other parts of the world, but usually the grass is first burned, and only the ashes are put on the land. In St. Pierre, however, the weed gathered on the rocky shores is spread broadcast in its natural state. Newfoundland dogs, which are largely used as beasts of burden here, are factors in this work of gathering and distributing seaweed. The faithful creatures can often be seen struggling up the hills drawing heavily loaded carts.

"Seaweed is very plentiful, especially after storms, when it is found in great quantities on the beach. The fertilizing power of seaweed is evidenced by the odor which begins to arise as soon as the plant starts to decay, becoming more pronounced and unmistakable as the decomposition advances. This odor leaves no doubt of the presence of quantities of animal matter in the seaweed. Cabbages, celery and lettuce thrive in this sea fertilizer. Potatoes, however, do not seem to do so well. Beets and certain kinds or varieties of peas also yield satisfactorily. The summer season, however, is very short."

OBITUARY.

Joseph Sondermann.

Joseph Sondermann of Brooklyn, N. Y., died of cancer April 4 in his home, 315 Winthrop street. Mr. Sondermann was born in Germany 63 years ago, and had been in the florist business for 30 years in Flatbush.

John Lent.

John Lent, one of the pioneer florists of the Ohio valley, died April 2 at the home of his daughter at Etna, O. Mr. Lent built up quite a large business in Sewickley, Pa., but, owing to ill health had to retire from it some years ago. He celebrated the forty-eighth anniversary of his wedding in February last and leaves a widow and four children.

Edward Dale.

Edward Dale, one of the pioneers of the florist and gardening business in Canada, died March 16. Mr. Dale might be said to have been the founder of the great business at Brampton, Ont., that still bears his name though to his son, the late Harry Dale, belongs the credit of bringing it to its mammoth proportions. Mr. Dale was 82 years of age, a native of Surrey, England, and emigrated to Canada in 1863 starting in business in a very small way there soon after which he built the first greenhouse, a small structure 10x25 feet which is, or was recently, still standing. Mr. Dale retired from the business some 28 years ago and has since lived most of the time in the southern part of the United States. It is said that the first produce of his garden was carried by him in a basket to Toronto—some 20 miles distant. Besides the late Harry Dale three other sons, Edward, Thomas and William, and a son of Harry Dale's, Edward, are actively engaged in the business at Brampton, the magnitude of which is too well known to need recapitulation here.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

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From the first issue the AMERICAN FLORIST has accepted only trade advertisements

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We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York.

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THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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Easter will be quite early next year, the date being March 27.

PROSPERITY has been so great in Bermuda this season that, it is said, the lily growers have had great difficulty in obtaining help, the hands all turning waiters.

Pearson's Case Not Serious.

Some time ago we printed an appeal for aid received from Gustave V. Pearson, a gardener of Salem, Mass., who claimed to be ill. We are now advised that medical experts have pronounced his case not serious and that there is no need of further financial assistance.

TARIFF.—Florists should again write their senators and congressmen to stand for specific duties on both seeds and bulbs.

"WINDOW GARDENS" is the title of some suggestions by Frank K. Balthis of De Kalb, Ill., reprinted from the "Nature Study Review" for December 1908.

PANSY GROWERS of Hilton, N. J., report their plants as later than usual and the supply to the retailers of Newark and New York will not be quite as large as usual.

Glass Tariff.

The cost of greenhouse glass at present is low and the tariff under the Payne bill in greenhouse sizes remains unchanged. It is to be expected that a combination will be made to bring much higher prices and the tariff committee of the Society of American Florists therefore urges each user of glass to write to his senator and congressman requesting a reduction of a half a cent a pound on common window glass.

BENJ. HAMMOND,
Secretary Tariff Committee.

American Carnation Society.

CARNATIONS REGISTERED.

By Nic Zweifel, North Milwaukee, Wis.—Badger State, Nelson Fisher X Enchantress; color, dark pink like Lawson; size, 3 to 3½ inches; very rapid grower and extremely free; flowers do not fade in hot weather; stems long and graceful, calyx never bursts. A money maker.

Bright Spot.—Lawson X Enchantress; color pure bright cerise of even shade; size 3½ inches; early and very prolific; healthy and strong grower; flowers well shaped, and are good keepers; stems long and wiry, calyx does not burst.

A. F. J. BAUR, Sec'y.

Shading Fruit Houses.

ED. AMERICAN FLORIST:—

Is it necessary to shade grape and peach houses in this section of the country? I have one house of grapes and one of peaches planted this winter, and on hot days I have noticed the foliage wilting a little. The temperature rises to 95° some days, with top and side ventilators open. I would like your advice regarding shading. I thought a light shading would be beneficial.

G. T.

Virginia.

Although, as a general rule, shading of fruit houses is not advisable, yet there are cases where a light shade may be beneficial, and wherever the foliage wilts as in the case "G. T." describes, shading of a temporary nature should be allowed. Newly planted peach trees and vines have not the grip on the soil that well established ones have, and in consequence they suffer during hot, bright bursts of sunshine. Then the foliage on young trees or vines has not to any extent covered the glass and the sun is in consequence able to exert its influence to the full in raising the temperature of the house. So although when the roof is well covered with good healthy foliage, either of the grape vine or peach, we should not counsel shading, except under the most extraordinary circumstances, yet "G. T." will be well advised to shade temporarily when the foliage shows by wilting that the sun is too strong for it.

G.

The Way the Wind Blows.

ED. AMERICAN FLORIST:—

In your spring number I see that President Poehlmann says that Mme. Abel Chatenay rose will surely return to popularity within a few years. Why! who can dispute him? This rose, after it has been staged for a day, brings to memory the hoop skirts our grandmothers wore. It has a habit of throwing its lower petals down resembling very much the hoop skirts worn in the old days and showing a decided waist; but you will notice there is a difference of opinion just now in regard to the proper place the waist line in a lady should be. From the pictures one sees it is located anywhere from the shoulders to the kilt line just above the knee, so the prophecy that Chatenay will surely return in a few years may be really true—when the hoop skirts come again.

Speaking about President Poehlmann I had the pleasure of listening to him airing his views on the tariff question as affecting the florist. A little group of us were standing in a Buffalo hotel at the rose show and to me it was a real education to hear him and W. A. Manda give their views on this stirring question. I believe that those two men ought to have been added to the tariff committee. Such a difference to the sight of another person waving a flag over his head and saying something about America for Americans. It's a vast difference which side of the fence one is on. Not many days ago we read that the original Americans were being chased farther west with gatling guns. It gives me a pain to hear patriotism linked with selfishness, and to see the flag used as a disgusting exhibition of egotism. I believe we ought to have more written up on the tariff question as it affects the florist than there is at present. We have men in the trade who could put this question in a way that the florists could understand just where they are at. There is a glass concern in New York spending money freely in sending circular letters to the trade, on the glass tariff, showing the cost of manufacture, duty, etc., and showing how the glass has been kept up by such a high tariff and those who are in favor of making it higher. The florist is vitally interested in this question, even if he only buys glass for repairing. I have purchased glass for $2.25 and also for $4 per box, the same quality and size. Those who believe in a prohibitary tariff ought to get the scales taken from their eyes, but then, Mr. Editor, you will notice that justice is usually shown with her eyes bandaged.

I was pleased to be present at the recent rose show in Buffalo. I met some of my old friends and made some new ones. John Evans of Richmond says he is against the race suicide idea and I have an invitation to see four of the finest children there are and as good a wife as ever lived. That's something like a husband ought to say, and John always knows when he has a good thing. You remember what Lauder said, "We dined, after we dined, we wined, and after we wined, everybody had something to say." But at the banquet in Buffalo, after all the dining and wining there were persons who can usually make a hit in an after dinner speech that seemed to be like the lost chord. I refer to my friend Lawrence Cotter. He blamed John Duncan for appropriating the speech he, Cotter, was to make. Whether P. Welch had given Duncan points about the speech Lawrence was to make I don't

know, but I am surprised at friend Cotter being handled so by a Scotchman.

I think my friend George Watson ought to tell us what the true shamrock is. You remember George comes out every year with a ditty about St. Patrick. I believe the florist stores in Buffalo need the education so as to sell shamrocks to the public and not be caught blushing. The Philadelphia shamrock and the Buffalo shamrock are not in the same class but probably they may give the latter an Irish pedigree because the name begins with an "O." New York will be the objective point next spring for the rosarians, and the easterners, I believe, with the help of the western boys, will put up a good show. The latter are a warm hearted lot and it is a pleasure to meet them. RAFFIA STRINGS.

National Council of Horticulture.

The fourth installment of the press service of the National Council of Horticulture has been received and contains articles on "Scarlet Sage or Red Salvia," "Easily Grown Vines" and "Pruning Shrubs." The articles are both timely and practical.

Important Foreign Exhibitions.

April 2-13.—Internationale Gartenbauausstellung, Zoological Garden, Berlin, Germany.—Siegfried Braun, secretary, Berlin N. 4, Invalidenstrasse 42.

May 19-21.—National Horticultural Society of France, annual exhibition le Jardin des Tulleries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine, France.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland Square, Edinburgh, Scot.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By up to date store man best of reference permanent place desired. Key 843, care American Florist.

Situation Wanted—Young man wishes employment in greenhouse, has had four years' experience and wishes a good place to improve himself JOHN SCHWENK, 98 Pearl St., Kingston, N. Y.

Situation Wanted—As working foreman of roses, carnations, chrysanthemums and violets; good references; married; give full particulars with wages, please. Address H. M., care 234 E. Madison St., Lancaster, Pa.

Situation Wanted—By a first-class grower of roses, carnations, chrysanthemums and general stock; also a thorough outdoor propagator of roses; married and middle aged; open for engagement by the first of May. Address Key 848, care American Florist.

Situation Wanted—By young married man as grower of carnations, 'mums, vegetables and bedding plants; either commercial or private and near Philadelphia; 10 years' experience; best of references; at liberty June 1. Address Key 828, care American Florist.

Situation Wanted—A young man wishes employment in greenhouse; have had four years' experience in carnations, roses and all kinds of greenhouse plants, and wishes a good place to improve himself; can bring best of references. Address Key 845, care American Florist.

Situation Wanted—As foreman or manager by a young married man, age 35; good business education; 17 years' experience in all departments of the business, roses especially; now employed on one of the large places near Chicago; a permanent place with good wages desired. Key 846, care American Florist.

Help Wanted—A competent young man to do general greenhouse work on retail place; nice place; county seat; near Pittsburg, Pa.; Catholic preferred. Key 844, care American Florist.

Help Wanted—A good all around man in a retail establishment married or single. Address MRS. PAUL GOBLE, cor. Hall St. and Oakhill Cemetry, Grandville, Mich.

Help Wanted—A thoroughly competent, reliable and experienced man, to fill position in retail store in Los Angeles. Apply to WRIGHT'S FLOWER SHOP, 224 W. 4th St., Los Angeles, Calif.

Help Wanted—A competent young man as assistant for greenhouse work; state age, nationality and reference. Address H. A. DEAL, gardener to Col. J. J. Ashton, P. O. Box 362, Ferncliff, Rhinebeck, N. Y.

Help Wanted—A first-class plantsman; one who thoroughly understands growing and forcing bulbs, plants, etc., used in a first-class store; only those of ability and having recommendations to show need apply. MARTIN & FORBES CO., 347 Washington St., Portland, Ore.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

For Sale—Retail store business; established 10 years; cheap rent in good locality on south side in Chicago; price $500 cash; good reasons for selling; leaving city. Address Key 847, care American Florist.

WANTED.

First class up-to-date designer and decorator for my retail store. H. R. HUGHES, 690 W. Van Buren St., Chicago, Ill.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Competent Bookkeeper

Open to engagement in Seed, Nursery or Floral establishment. Has had practical experience in horticultural line and speaks several languages. Could assist with other work besides bookkeeping if necessary. German, age 35. Address

Key 842, care American Florist.

FOR SALE BEES

Full colonies, $7.50; Three frames of bees with queen, $5.00.

W. C. DAVENPORT, 4166 Central St., Chicago.

Landscape Foreman.

Wanted foreman on landscape construction work. State full particulars as to references, experience and salary.

KLEHM'S NURSERIES.
ARLINGTON HEIGHTS, ILLINOIS.

SITUATION WANTED
Gardener and Florist

Thoroughly familiar with European Horticuture; three years with leading growers in United States; capable of taking charge of private or commercial place; good references; age 27 years. Address X. Y. Z., care American Florist, 1133 Broadway, New York.

FOR SALE.

Wholesale and Retail Floral Establishment, well stocked; consisting of 12 large greenhouses, the majority erected within the last two years, 2½ acres of land, 12-room brick residence, shop, barn, wagon, implements, tools, etc. Everything in **first-class** condition. Owner has been in business 25 years and wishes to retire. For terms, address,

C. CRAMER, R. F. D. No. 4,
Salt Lake City, Murray Station, **Utah.**

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y

PAID UP....

Subscriptions Show That Readers Like the Paper.

Notice to the Trade

Herewith we beg to inform you that we have entrusted **Myer M. Van Waveren & Sons, Ltd., Hillegom, Holland,** with our sole agency for the **United States** and **Canada.**

Hoping to be favored with your orders,

Yours respectfully,

UNION HORTICOLE, Hyeres, France

Send all communications to **W. TAAT,** Station A, **Yonkers, N. Y.**

KILLARNEY ROSES

Fancy, selected. The best grown stock in the United States. Must be seen to be appreciated. Average length, 6c to 12c. Special length at reasonable prices for special stock. Our specials will take the place of American Beauties.

All Cut Flowers In Season. Fancy Ferns.

Large stock of **Growers' and Nurserymen's Supplies.**

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

How Plants Feed.

STARCHLESS LEAVES.

It may be noted here that starch is not formed in all leaves. There is none found in the onion, squill, many orchids, common milkweed, and other plants, and a small amount only in some gentians, irises and lobelias. However, more complex substances than carbohydrates are formed in plants, the most important being amides and proteids, says W. Lochead in a paper read before the Canadian Seed Trade Association in Ottawa February 5, 1909. Amides contain C. H. O. & N., and are probably intermediate products from which proteids are constructed. Here again the various stages in the formation of proteids are not understood, so it will be unnecessary to deal with this phase of the question.

At any rate, we know that nitrogen is required, so that here the direct utilization of the soil salts brought up in solution takes place. Probably plants obtain most of their nitrogen from the nitrates of potassium, sodium, calcium and magnesium, and that an amide—the most common being asparagine—is formed from the sugars present. It is observed that asparagine is the form which most nitrogenous foods assume when in circulation; besides it is abundant as a reserve food in bulbs, tubers and roots.

The next advance is the formation of proteide from asparagine and sugars by the addition of sulphur and phosphorus, and here the compounds of these elements are utilized. Some of the proteids are soluble and are readily carried in circulation, but others are insoluble, wholly or partially. The latter must be converted into soluble forms before they can be carried from one part of the plant to another.

PROTOPLASM.

Protoplasm is a complex of proteids and is very unstable. By its own vital activities, one of which is known as respiration, it is continuously breaking down into simpler substances, first into proteids, then to amides, carbohydrates, and other products, some of which are useful, others useless. It is at the same time building up to repair the waste. When we remember that the entire skeleton of the plant, composed mainly of cellulose—a carbohydrate—is a product of the activity of protoplasm, and that perhaps most of the starch and sugar found in stored reservoirs in the roots, tubers, stems and seeds, are products of protoplasmic activity, we begin to realize how great is the activity of this complex living substance.

The processes of respiration to which I have referred go on in every living cell of the plant—in the root, stem and leaf. In the cases of protoplasm and the nitrogeneous substances the respiration process is a complicated one with many stages before the final products CO_2 and H_2O are reached. It is essentially an oxidation process, and if oxygen be excluded from a living cell the living substance of that cell will die. This explains why plants do not thrive in poorly drained soil where excess of water prevent the access of oxygen, or when seeds are buried too deeply they do not germinate, or at best develop sickly plants.

All the higher plants are provided with special tissues for the rapid conduction of fluids. If we stand a cut, leafy shoot of begonia, for example, in some water stained red with eosin or red ink for 15 minutes or longer, we will find on examination that the red fluid has ascended the stem into the leaves; further, that the stain is confined to certain portions of the stem which we call the fibro-vascular bundles; further, that the stain is confined to certain parts of the bundle which we call the xylem vessels, or the vessels of the wood. The special function of these vessels is, therefore, to conduct water and the soil salts in solution to the leaves. These vessels begin near the tips of the roots and end in the spongy tissue of the leaves. They lie outside of the fibro-vascular bundles and are supported and strengthened by thick-walled wood fibres. These conducting vessels are of two kinds; tracheal tubes and tracheids. Tracheal tubes are practically continuous tubes running from the rootlets to the leaves, while tracheids are elongated cells closed at the ends, but provided with numerous thin places on the walls, through which solutions can pass somewhat freely. The ultimate endings of veins in the leaves, and the conducting system of conifers are composed of tracheids. Although the tracheal tubes and tracheids conduct the raw materials from the root to the leaf, they also assist in conducting the food made in the leaf upward to the buds, in the spring.

To another portion of the fibro-vascular bundle, the sieve tubes, of the bast, is assigned the task of conducting most of the food manufactured in the leaves to the growing points, to the living cells, and to the storage reservoirs in the root, stem and seed. The soluble proteids and sugars diffuse into the sieve tubes and the accompanying cells and pass along slowly upward and downward to the places requiring nourishment.

The sieve tubes are elongated cells with perforated end walls, and can be traced from the leaves to the rootlets. Where medullary rays are present, some of the food is carried inward and outward into the cells of the medullary rays, some is removed by the cambium for the construction of new tissues, and some is passed on to the living cells of the cortex and other parts.

Besides this specialized circulation by way of the vessels of the wood and the sieve tubes of the bast, there is probably a more or less diffuse circulation from cell to cell upward and downward in the cells of the cortex and elsewhere. The mineral solutions on entering the cortical cells of the root may pass slowly upward by diffusion from cell to cell. Some plants have the power to manufacture food stuffs in the green cells near the surface of the stem as well as in the green cells of the leaf. Again, some of the soluble foods in the cells of the leaf may pass slowly downward from cell to cell in the cortex, and nourish those parts directly.

Fancy and Dagger FERNS $2.00 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway. All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, BOSTON, MASS.

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Southern Wild Smilax.

Log Mosses, natural and perpetuated, now ready for shipment.

E. A. Beaven,

EVERGREEN, ALA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.

Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

Southern WILD SMILAX

Write, wire or telephone the introducers.

Caldwell The Woodsman Decorative Co.

EVERGREEN ALABAMA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

CHICAGO.—Bowling will be resumed at Bensinger's alleys, 118 Monroe street, on Friday evening of this week. It is now announced that prize handicap bowling will occur on the first Friday evening of each month hereafter.

Outing of the New York Florists' Club.

BULLETIN NO. 1.

The annual outing committee met March 6, 1909, and decided on the following preliminary programme:

TIME.—Outing to take place July 1, 1909.

PLACE.—Duer's Whitestone Landing, four bowling alleys, large grounds, dining hall, etc.

BOAT.—Steamship Isabel.

BREAKFAST.—On arrival of boat about 11:30 a. m.

DINNER.—Six o'clock p. m.

MOONLIGHT RIDE.—7:30-9:30 p. m.

GAMES.—Bowling, baseball, usual outdoor games, and dancing.

FUN.—From the time we start 'til we land home.

INNER MAN.—This will be taken care of in the usual generous way.

PRIZES.—For all who win them.

TICKETS.—Combination ticket, Lady and Gentleman, $5, Ladies' tickets $2, Children under 12 years of age, $1, over 12 years, $2.

SOUVENIR PROGRAMME.—Circulation 5,000. This will be a real souvenir, handsome and unique, something to keep and show your grandchildren. It will contain a picture of every member of the New York Florists' Club, beautifully engraved, arranged in groups 24 to the page, besides much other useful information and some advertising.

DUMMY.—The souvenir dummy will be ready in a few days. Write for one if you wish to advertise. It pays. THE COMMITTEE.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Monrovia	$2 00
Polly Rose	1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

.....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.
Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

YOU ARE INTERESTED IN

May Day

as a day of **Cut Flowers and Plants** for Florists. Let us remember this fact and make May Day the banner day of the year. Ask for our list of **Soft Wooded Plants, Roses, Carnations, Ferns, Cannas, etc.**

GEO. A. KUHL, Wholesale Grower. Pekin, Ill.

Aster Seeds

That will produce good blooms.

Chrysanthemums

The best for Florists.

Elmer D. Smith & Co.

ADRIAN, MICH.

DRACENA IND., 4-in., 10c.

Scottii and **Boston Ferns,** 4-in., 12c; 5-in...20c
Hydrangea P. G., 3 ft., 8c; 1½ ft.....5c

	Per 100
Asparagus Plumosus, 2-in	$2 00
Sprengeri, 2-in., $2.00; 3-in., $4.00; 4-in.	6.00
Cannas, Egandale, D. Harum, Marlborough, America, Pennsylvania, K. Gray, B. Beauty, A. Bouvier	1.75
Vinca Var., 2-in., $2.00; **English Ivy,** R. C.	.75

J. H. DANN & SON. Westfield, N. Y.

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in **Pandanus Veitchi** at 75c each, $7.50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

"THE best way I know of to use a chafing dish is to punch a hole in the bottom of it, paint it green and plant flowers in it."—Washington Star.

KILLARNEY, BEAUTIES,

Richmond, Maids and Brides

EXTRA FANCY CARNATIONS

Big Crops. **PRICE LIST.** **Low Prices.**

AMERICAN BEAUTIES. Per doz.

Extra long	$3 00
24 to 30-inch	2 00
20-inch	1 50
15-inch	1 00
12-inch	$ 50 to 75

KILLARNEY AND RICHMONDS.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00

BRIDES, MAIDS AND PERLES.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00
Short Roses, our selection, in lots of 500 or more, per 100	2 00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100	$3 00 to $ 4 00
Fancy white, good stock, per 100	3 00
Fancy pink, good stock, per 100	2 50 to 3 00
EASTER LILIES, per doz. $1 50; per 100	10 00
LILY OF THE VALLEY, per 100	2 00 to 4 00
SWEET PEAS, per 100	50 to 1 00
ASPARAGUS SPRAYS, per 100	2 00 to 4 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, per doz	1 50 to 2 00
ASPARAGUS STRINGS, per string	50
ADIANTUM, per 100	1 00
GALAX, bronze, per 1000	1 50
GALAX, green, per 1000	1 50
FERNS, per 1000	2 50

BUY DIRECT OF THE GROWERS

Bassett & Washburn,

Store and Office: 76 Wabash Ave. **CHICAGO.** Greenhouses: HINSDALE, ILLINOIS.

St. Louis.

A BIG EASTER TRADE.

On Friday morning the wholesale market presented a very lively appearance. All of the wholesale houses were well stocked with all varieties of flowers. This was the heavy shipping day, and the bulk of all out-of-town orders were filled. Carnations were held from three to six and roses from four to 10 cents. American Beauty roses were not plentiful, especially long stemmed flowers. Harrissi lilies and callas arrived in increased quantities. Some very good California violets were in owing to the continued cold spell and brought from $3.50 to $5 per 1,000. Sweet peas in large quantities and of fine quality sold well, especially lavender, then pink and white. Clean-up sales were made, however, at reduced prices. On Sunday morning stock was scarce, especially carnations and sweet peas, the only leftovers being jonquils and outdoor Narcissus poeticus. Fancy ferns were also cleaned out and smilax was sold at 20 to 25 cents per string. Asparagus Sprengeri and A. plumosus sold well. Many split carnations were in and sold at big prices owing to the scarcity.

NOTES.

At Smith's the supply of violets and sweet peas was enormous; on Saturday the counters were overcrowded. On Sunday they were empty, with buyers waiting for further supplies. This firm also received large quantities of lilies and carnations.

A few members, not sufficient to form a quorum, met to attend the monthly meeting of the Florists' Club last Thursday, but under the circumstances no meeting was held. Most of the members were too busy with Easter business to attend.

Young & Sons had a fine supply of flowering plants and bulbous stock in boxes, together with a fine supply of lilies, hydrangeas and azaleas. These were cleaned out. Shipping trade Friday and Saturday was immense.

A severe wind and hailstorm visited us last Tuesday and did considerable damage to some of the north end growers, many frames and panes of glass being shattered, but fortunately there were no very heavy losses.

The Riessen Floral Co.'s trade was very large. Their store on Saturday was loaded up, and Sunday entirely cleaned out. There was an immense demand for violets and sweet peas.

Arbor day was celebrated last Friday. City Forester Andrew Meyer, Jr., planted a row of trees at the Wednesday club. Several florists donated trees.

All the Kirkwood growers looked happy. They all brought in heavy consignments and they were with but few exceptions all sold.

At Angermueller's shipping trade was rushing, on Friday Fred Alves and Al Gumz having their hands full.

Alex. Siegel cleaned up all sweet peas and lilies in sight on Friday, and on Sunday was looking for more.

C. A. Kuehn had an immense stock of everything. His roses and carnations were of the finest quality.

F. H. Weber, whose greenhouse was loaded up on Saturday, was quite cleared out.

W. F.

Calumet, Mich.

The Lakeside Floral Co., with head offices in Houghton, is about to make extensive alterations in its local plant, chief among which will be the erection of a modern greenhouse, to replace its present house on North Fifth street. The greenhouse occupied by this firm since it was organized to take over the Lutey stores, is entirely too small and inadequate for the needs of the concern, and the new building is a necessity.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

A portion of the old greenhouse has been torn down and work on the new structure will be commenced soon, in order it may be completed and ready for use before next fall. The store is one of the largest and best equipped in the state, and it is planned to make it even more attractive. Miss Lucy Symons of Houghton, for several years in charge of the store, has returned and is once more in charge.

Joliet, Ill.

Albert C. Rott had a big advance call for plants, especially Easter lilies. He has just taken possession of the entire store where he has had his stand, now having for his business a floor space of 32x150 feet.

Joseph Labo had a good advance demand for both plants and cut flowers. He has a fine stock of bedding plants coming on for his local spring business.

Larson & Goranson are just completing a new greenhouse, 26x115 feet.

REINBERG'S ROSES

Outlast Any Others

AMERICAN BEAUTIES

	Per doz.
Long Stems	$4.00
30-inch stems	3.00
24-inch stems	2.00
20-inch stems	1.50
15-inch stems	1.00
Short stems	.75

Richmond	Per 100
Select	$ 6.00 to $ 8.00
Medium	4.00 to 5.00
Killarney	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Mrs. Marshall Field	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid, Bride	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Chatenay, Ivory	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Perle, Sunrise	
Select	4.00 to 8.00
Roses, our selection	3 00

CARNATIONS

$2.50 to $3.00 per 100.

Easter Lilies	
Short	$10.00 to $12.00
Select	15.00
Tulips,	4.00 to 5.00
Violets,	.75 to 1.00
Valley,	3.00 to 4.00
Daffodils,	3.00 to 4.00

Asparagus Plumosus
Extra quality per bunch, 75c.

Fancy Ferns	
Per 1000	$3.00

Give your customers roses that keep well and you will keep your customers.

PETER REINBERG

35 Randolph St., CHICAGO.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

— CONSIGNMENTS SOLICITED. —

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Wholesale Flower Markets

ST. LOUIS, April 14.

Roses, Beauty, long stems	3 00@ 4 00
" " medium stems	2 00@ 3 00
" " short stems	50@ 1 00
" Bride, Bridesmaid	4 00@ 8 00
" Chatenay	5 00@10 00
" Ivory	5 00@10 00
" Killarney	4 00@ 8 00
" Mrs. Potter Palmer	5 00@ 8 00
" Rhea Reid	6 00@10 00
" Richmond	6 00@10 00
" Alice Roosevelt	5 00@ 8 00
Carnations, fancy	2 50@ 3 00
" common	1 50@ 2 00
Lily of the Valley	3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 50	
Smilax	12 50@15 00

CINCINNATI, April 14.

Roses, Beauty	$1 00@$ 6 00
" Bride, Bridesmaid	3 00@ 8 00
" Golden Gate	3 00@ 8 00
" Killarney	4 00@ 8 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 4 00
Callas	10 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Smilax	12 50@15 00

BUFFALO, April 14.

Roses, Beauty, special	4 00@ 5 00
" " fancy	3 00@ 3 50
" " shorter	1 00@ 3 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@10 00
" Richmond	4 00@10 00
Carnations	2 00@ 3 00
Callas	5 00@10 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Forget-me-nots	50@ 75
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	12 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	40@ 50
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	15 00

MILWAUKEE, April 14.

Roses, Beauty	1 00@ 4 00
" Bride, Bridesmaid	3 00@ 8 00
" Killarney	4 00@10 00
" Liberty, Chatenay	3 00@ 8 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 4 00
Daffodils	2 00@ 3 00
Lilium Giganteum	10 00@12 50
Lily of the Valley	3 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch, 25@	35
" Sprengeri, " "	25
Ferns, Common, per 1000	2 50
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	1 00

	Per 100
Killarney, select	$ 8 00
Medium	$3 00 to 5 00
Mrs. Jardine, select	8 00
Medium	3 00 to 5 00
Uncle John, select	8 00
Medium	3 00 to 5 00
Bridesmaid and Bride, select	8 00
Medium	3 00 to 5 00
Chatenay, select	8 00
Medium	3 00 to 5 00
Richmond, select	8 00
Medium	3 00 to 5 00
Carnations, fancy	3 00
Good	1 50 to 2 00
Easter Lilies, short	10 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Violets	1 00 to 1 50
Valley	3 00 to 4 00
Daffodils	3 00 to 4 00
Callas	12 00 to 15 00

Asparagus Plumosus
Extra quality, per bunch 75c
Fancy Ferns, per 1000 ..... $ 2.50

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,

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Just received another Carload of Boxwood

which we offer at following prices, (subject to being unsold upon receipt of order.)

PYRAMID	Each	Pair
18 to 24-in	$1 00	$1 65
24 to 30-in	1 35	2 50
30 to 36 in	1 85	3 50
36 to 42-in	2 40	4 40
42 to 48-in	2 90	5 40
48 to 54-in	3 75	6 50

BUSH FORM	Each	Pair
18 to 24 in	$1 00	$1 75
24 to 30-in	1 35	2 50
30 to 36 in	2 50	4 50
36 to 42-in	3 50	6 50

If you are interested in

CANNAS

Write us before you place your orders We can quote you low prices in quantity. We have the goods

REMEMBER

We carry everything a florist uses in Supplies.

Our Catalogue Free for the Asking.

Chicago.

EASTER TRADE SATISFACTORY.

The volume of Easter business was about the same this year as a year ago judging from the reports of the leading wholesale houses. Everything moved off satisfactorily at good prices, except on Saturday, when there were too many "pickled" carnations received, and violets were too poor to be sold at any price. The weather was a prime factor and had much to do with the demand. The week opened extremely warm for the season, 74° being registered at one time on the street. Then in the middle of the week it turned cold with snow. The sudden changes scared off buyers who did not buy as they otherwise would as they feared a stormy Easter. As it happened, however, both Saturday and Sunday turned out clear and sunny. Early in the week when the days were so warm it looked as if there would be a large glut of stock, but the cold wave shut off the threatened supply, and by the end of the week lilies and American Beauty, Richmond and Killarney roses were scarce. American Beauty was extremely scarce, it being estimated that there were hardly half enough to fill orders. Other roses sold very well, with just about enough on the market to supply the demand. Cut Easter lilies were also just about equal to the demand. Pot lilies sold better than ever before, the prices going steadily up from the first of the week, and the supply being practically exhausted by Friday. Carnations were scarce early in the week, but the supply proved larger in the end than expected. Quantities of held stock were unloaded on the market Saturday, bringing down prices considerably. In bulbous flowers the supply and demand were about equal, a more satisfactory condition than has prevailed in several seasons past. Southern outdoor stock is now about done for, the heavy rains having finished off what was left. Violets were a distinct disappointment. The warm weather of the fore part of the week was damaging and they shipped very poorly. It is estimated that about 250,000 violets of inferior stock were left on the market Saturday night. What good violets there were sold at good prices. The scarcity of such stock made sweet peas a very desirable item.

April 14.—The market today is decidedly weak. The supply of both roses and carnations is growing larger. American Beauty roses, which have been hard to get, are again coming in crop with some of the large growers and are somewhat easier in

HAIL DAMAGE UNDERESTIMATED.

As noted in this letter last week the hail damage to greenhouses at Bowmanville and Ravenswood was considerable, but at time of going to press with that issue, the losses were rather underestimated than otherwise. Much cracked glass that was at first overlooked began falling under the pressure of the high wind which prevailed the day after the storm, and probably the entire damage would reach quite double the amount reported. Geo. Reinberg says his loss was about 90 boxes of glass, which was inconsiderable considering his large glass area.

NOTES.

The Wells, Fargo Express Co. will become quite a factor in the shipment of cut flowers on May 1, when this concern will commence handling the business of the Chicago, Milwaukee & St. Paul R. R. The incoming shipments over this road are a very considerable proportion of the market's supply, including as they do, the cut of the Poehlmann Bros. Co., and all the other growers of Morton Grove, as well as those of Niles Center, Edgebrook where the Geo. Wittbold Co. has its big plant, and other important greenhouse centers. The United States Express Co. has heretofore been handling all this business.

The Easter display at the Washington park greenhouses was very fine and was visited by great numbers of people. On Good Friday the snow and cold winds outside made the greenhouses a very pleasant place for the park visitors and they took full advantage of it. Just now the cinerarias are very fine; also several of the begonias, including large batches of the old but graceful B. manicata with its soft pink small flowers in myriads. Bulbous flowers are also excellent, especially lilies and hyacinths while the large genistas and azaleas are in excellent shape.

Damm Bros., who grow for Zech & Mann, were extremely successful with their Easter lilies this year, getting them in full bloom on just the days they were needed. None had to be held and some 1,300 were cut for immediate shipment, which was done direct from the greenhouses to avoid unnecessary handling.

N. C. Moore & Co. are now offering for sale cuttings of their new Nellie C. Moore pompon chrysanthemum. This is a fine lemon colored flower, coming about three inches in diameter, a vase of which was much admired at the National Flower Show last fall.

Kreitling's store space has been greatly extended and it is thought that the new office building to be erected on the site of the Victoria hotel, now in course of demolition, will greatly increase this firm's business.

The E. F. Winterson Co. has been handling large lots of cattleyas and has been supplying some of the largest retailers in this city as well as out of town with a fine article.

Miss Tonner, on the Flower Growers' Market, is showing some very fancy snapdragon in all colors, also yellow, white and purple Spanish iris.

Bassett & Washburn report an average cut of 2,000 O. P. Bassett carnations per day last week, and they were in heavy demand.

Walter Scott, of La Grange, reports a good Easter business with prices good. A somewhat better demand was noted for miscellaneous pot plants as opposed to Easter lilies.

F. W. Timme suffered a paralytic stroke about two weeks ago, affecting his right side, but is now on a fair way to recovery.

O. P. Bassett and wife returned home Tuesday night from Hot Springs, Va. Mr. Bassett was much benefited by the baths.

Many of the retailers say they had a strong demand for plants, especially such as could be retailed at from $1 to $2 each.

Geo. Reinberg was lucky with 1,500 fine Easter lilies in pots which he sold to advantage on a rapidly rising market.

J. D. Thompson is now in the advertising department of one of the big daily newspapers of this city.

H. R. Hughes had recovered sufficiently April 12 to be at the store for a short time.

Peter Reinberg is fortunate with a good crop of American Beauty roses on.

Wietor Bros. are cutting fine Killarney roses of which they now have a big crop.

Vaughan's Seed Store has just received a carload of bay trees.

The A. L. Randall Co. is showing some very fine Killarney roses.

Visitors: Max Spanner, Toledo, O.; John Walker, Youngstown, O.

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THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
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All telegraph and telephone orders given prompt attention.
Greenhouses: MORTON GROVE, ILL.
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Wholesale Flower Markets

CHICAGO April 14.

Roses, Beauty, extra select	4 00
" " 30 in	3 00
" " 20 to 24 in	1 50@ 2 00
" " 15 in	1 00
" " 12 in	75
" " Short	50
	Per 100
" Bride, Bridesmaid, select	6 00@ 8 00
" " " medium	5 00
" Chatenay, select	6 00@ 8 00
" " medium	5 00
" Golden Gate, Uncle John	4 00@ 8 00
" Kate Moulton	4 00@ 8 00
" Killarney, select	6 00@ 8 00
" " medium	5 00
" Mrs. Marshall Field, select	6 00@ 8 00
" " " medium	4 00@ 5 00
" Perle	5 00@ 8 00
" Richmond, extra select	6 00@ 8 00
" " medium	5 00
Carnations	2 00@ 4 00
Callas, per doz.	2 00@2 50
Cattleyas, ($9.00 per doz.)	60 00@75 00
Daisies	50@ 2 00
Gardenias, per doz	6 00
Irises	6 00@ 8 00
Lilium Harrisii per doz.	1 50@2 00 15 00
Lily of the Valley	3 00@ 4 00
Pansies	1 50@ 2 00
Sweet Peas	75@ 1 50
Tulips	3 00
Violets, single	50@ 75
" double	50@ 75
Adiantum	75@ 1 00
Asparagus Plum, strings, each	50
" " sprays	2 00@ 4 00
" Sprengeri	2 00@ 4 00
Boxwood, per bunch	35
Ferns, fancy, per 1000	2 00@3 00
Galax, green, per 100	15; per 1000 1 00
" bronze, per 100	15; per 1000 1 00
Leucothoe sprays	75@ 1 00
Smilax, Wild, per 50-lb. case	5 00

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Telephone, Central 3284.

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Roses and Carnations A Specialty.....

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THE BENTHEY-COATSWORTH CO.

35 RANDOLPH ST. WHOLESALE FLORISTS CHICAGO.

New York.

A RECORD BREAKING WEEK.

All reports agree that the Easter trade was exceptionally good. While there may have been years when certain stocks sold for higher prices, taken as a whole, the volume of business was exceptionally large. The cool weather that came on the night of April 7 and continued until after Easter was the salvation of the trade. It saved thousands of dollars worth of stock that a week of warm weather would have rendered worthless. Reports received from leading retailers, show that their business was exceptionally fine and it is doubtful if ever before, so much stock was sold at remunerative prices. In the wholesale district there is a general sentiment of satisfaction. The leading dealers say that, while high prices were not realized, they were well cleaned out of all saleable stocks. There was more or less dissatisfaction with the condition in which many carnations and violets reached the market; but that is an old story and comes up every year.

EASTER NOTES OF THE RETAIL STORES.

At Alex. McConnell's, Windsor arcade, Fifth avenue, the main store, conservatory and other available space was filled with fine stock at the beginning of the Easter trade, and throughout the week there was evidence of good business. A feature of the stock of this store was a new crimson rambler rose, yet unnamed, which promises to surpass the old varieties.

A feature at J. P. Klausner's, Seventy-third street and Columbus avenue, was the "Hans and Gretchen" flowerholders, representing a Dutch boy and girl, each holding a shoe, after the model of the wooden shoes. These novelties were handled exclusively by Klausner, who likewise had a fine stock of plants and cut flowers.

At the large store of David Clarke's Sons, Seventy-fifth street and Broadway, there was a great stock of all seasonable plants, and trade was good from the middle of the week. It was said by a member of the firm that the highest priced plants and combinations were the first to sell.

Abraham Jacobs, who recently took the Chas. O'Reilly store at Sixty-ninth street and Columbus avenue, offered his landlord $200 for the rental of another half of a store for the Easter trade, and was disappointed in not getting it.

At the store of Christatos & Koster, Sixty-third street and Madison avenue, a noteworthy show window display was a very large camellia plant covered with white flowers. It was grown by H. Pritchard of Astoria, L. I.

Geo. M. Stumpp, Fifty-eighth street and Fifth avenue, is noted for the high class plant combinations which he offers the holiday and Easter trade. The beauty and unique features of his exhibits were unsurpassed.

C. A. Ladiges has two stores, one at 1689, the other at 1792 Amsterdam avenue. Being a thoroughly practical man and formerly a grower, both his stores were well stocked with the best in the market.

At the stores of C. A. Dards, 341 Madison avenue and 114 West Seventy-second street, we found the same high standard of stock and tasteful combinations that he has always maintained.

M. A. Bowe, at Broadway and Thirty-fourth street, always keeps a handsome and well stocked store and this year his stock was up to the high standard which he has always maintained.

Mrs. Geo. P. Esch, who continues the business of her late husband at 3279 Third avenue, had a fine Easter stock and good business.

NOTES.

A high wind on April 7, blew down the large tents which have sheltered the plant market at Canal and Washington streets. Fortunately but few plants were on hand at the time and, aside from inconvenience, the damage was slight. Through the energy of John Birnie and other leading spirits in this enterprise, everything has been again put in good shape.

A very notable display of fine designs was seen on April 12, at the funeral of Lieut. Joseph Petrosino, an honored member of the police department of this city, recently murdered in Italy. Thousands of brother officers, firemen and other city employes, escorted his remains to their last resting place. The floral emblems filled six carriages.

Nicholas Flessas, better known as "Nick the Florist" has given up his old store on Fifty-ninth street, near Columbus avenue, and moved up town to 54 Manhattan street, in the heart of the residential district. He ran a branch store for the Easter trade and had good business.

On Monday, April 12, just as soon as the Easter rush was over, Chas. Thorley removed his stock formerly at 1173 Broadway, to Broadway and Twenty-eighth street, next door to Keith & Proctor's theater. The new store is well located and fitted up in strictly modern style.

At 1241 Amsterdam avenue, Angel & Specheris have recently opened a retail store. Upper Amsterdam avenue, is now considered very desirable for business purposes as there are several of the leading educational institutions in that vicinity.

The sympathy of the trade is with Thos. Jackson of the New York Cut Flower Exchange who has just learned of the death of his mother, at the ripe age of 77 years. She died at her home near Sheffield, in Yorkshire, England.

The Hamilton Court Flower Shop is a recently organized retail concern, located at 134 Hamilton place, near One Hundred and Forty-third street. Elizabeth Talty and Max Tiebel are the active members of the firm.

Peter F. McKenny, formerly with Thorley, had an Easter store at 110 West Twenty-eighth street, with good business. He will, in a short time, open a first class retail store at 503 Fifth avenue, near Forty-second street.

Traendly & Schenck, 44 West Twenty-eight street, had a remarkably fine Easter stock. In orchids, roses, carnations, sweet peas and all other leading stocks, their offerings were of the highest order.

Lyman B. Craw, of the Lord & Burnham Co. has undergone an intricate operation, but is making good progress toward recovery.

Bulletin No. 1, published by the Outing Committee of the Florists' Club will be found in the pastimes column of this issue.

Christatos & Koster have leased 717 Madison avenue near Sixty-fourth street for a term of years.

Fred Keller is visiting the Isle of Pines.

New York Florist's Club.

The regular monthly meeting of the Florists' Club was held on the night of April 12, President Turner in the chair. While the attendance was not as large as has sometimes been seen the interest manifested was most gratifying. The paper of W. H. Elliott of Brighton, Mass., on rose growing, published on page 588 of this issue, was the leading feature of the meeting and brought out a very interesting discussion of old and new methods. After reading his paper, Mr. Elliott spoke freely of his methods in rose growing and there was a general discussion of the question, and its connection in which F. R. Pierson, Patrick O'Mara, W. G. Badgley, A. J. Guttman, C. H. Weathered, John B. Nugent, Jr., and others participated.

W. J. Stewart said he wished to hear the views of the wholesalers on Mr. Elliott's paper. F. R. Pierson and W. G. Badgley spoke of cheap transportation to market, cheap labor, large houses and permanency and durability in building. The consensus of opinion was in favor of large houses. Patrick O'Mara emphasized the advancements that have been made in rose growing and greenhouse building. Harry Barnard, representative of Hugh Low & Co., spoke interestingly of rose growing in England. A. J. Guttman said that any variety of roses will sell if well grown.

In the regular order of business, the committee on the annual dinner, held February 27, reported that the event had been self-sustaining with no expense to the club. On motion of P. O'Mara, seconded by Walter F. Sheridan, the committee was discharged with thanks, and congratulations for its good report. The outing committee reported progress. J. A. Manda, for the bowling committee, reported a contest of 15 games, to begin next month, the five men making the highest scores to constitute the club team at Cincinnati next August. On motion of Frank Traendly a transportation committee for the trip to the S. A. F. convention at Cincinnati was appointed as follows: Frank Traendly, F. R. Pierson and John Young. The report of the awards committee on the exhibits at the March meeting, which had been deferred with other business, as a mark of respect for the late President Hallock, was read and adopted as follows:

Twenty-five white Killarney roses, by F. R. Pierson, cultural certificate.

Twenty-five My Maryland roses, A. N. Pierson, Cromwell, Conn., vote of thanks.

Twenty-five white Killarney, Waban Conservatories, Natick, Mass., first prize.

Twenty-five My Maryland, Myers & Samtman, Chestnut Hill, Pa., vote of thanks.

Twenty-five My Maryland, Robt. Simpson, Clifton, N. J., cultural certificate (shown in excellent condition).

Twenty-five Mrs. Jardine, Robt. Simpson, cultural certificate.

Twelve American Beauty roses, by Brant, Hentz Floral Co., Madison, N. J., cultural certificate.

Twelve Killarney, 12 Bride, 12 Bridesmaid, by W. G. Badgley, Chatham, N. J., cultural certificate.

Twenty-five Bridesmaid, by Valentine Hamman, Summit, N. J., cultural certificate.

Rosa sinica (Cherokee rose), by W. A. Manda, S. Orange, N. J., vote of thanks.

South Orange Beauty, Wichuraiana X. Am. Beauty, W. A. Manda, vote of thanks.

Twenty-five Richmond, by A. Farenwald, Hillside, Pa., cultural certificate (an excellent display).

Vase of Killarney, A. Farenwald, cultural certificate.

Vase of Kate Moulton, Robt. Simpson, vote of thanks.

Twelve Bride and 12 Bridesmaid, by Henry Hentz, Madison, N. J., cultural certificate.

Vase of Mme. Chatenay roses, by Robt. Simpson, cultural certificate.

Harry Bunyard brought up the question of a national sweet pea association, to hold its first exhibition in the club rooms, June 30, and asked for the views of members. W. E. Marshall said he was favorable to a sweet pea society but hoped that no complications would arise between the awards and exhibition committees. P. O'Mara spoke favorably of the movement for a sweet pea society but had views similar to those of Mr. Marshall on the matter of avoiding complications. A motion by J. A. Manda, inviting the sweet pea society to hold its exhibition in the club rooms, free of charge, was carried. C. H. Weathered and C. H. Totty spoke favorably of the movement. Maurice I. Jacobs and Henry Weisman were elected to membership in the club and the names of G. L. Shiner and James Meicklejohn were proposed.

Visitors: A. Mellstrom, H. Barnard, Edward Norman.

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Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

	NEW YORK, April 14.	Per 100
Roses, Beauty,	special	25 00@35 00
" "	fancy	20 00@25 00
" "	extra	15 00@20 00
" "	No. 1	5 00@10 00
" "	No. 2	2 00@ 3 00
" "	No. 3	1 00
" Bride, Bridesmaid,	special	6 00@ 8 00
	extra and fancy	4 00@ 5 00
	No. 1	2 00@ 3 00
	No. 2	1 00
"	Killarney special	6 00@ 8 00
	extra and fancy	4 00@ 6 00
"	Richmond	1 00@12 00
Carnations,	fancy and special	3 00@ 4 00
"	common	1 50@ 2 00
Callas	per doz.	75@ 1 00
Cattleyas		40 00@60 00
Daisies		50@ 2 00
Gardenias	per doz.	1 00@ 4 00
Lilac, Cut	per bunch	50@ 1 00
Lilium Longiflorum		3 00@ 5 00
Lily of the Valley		1 50@ 2 00
Mignonette	per doz.	30@ 60
Narcissus (Paper White)		2 00@ 2 50
" (Yellow)		1 50@ 2 00
" (Southern)		20@ 30
Sweet Peas	per doz bunches	30@ 1 00
Tulips		1 50@ 3 00
Violets		25@ 35
Asparagus	doz. bunches	2 00@ 3 00
Smilax		8 00@12 00
Stocks (Double white)	per doz	1 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Moore, Hentz & Nash,

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American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

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Young & Nugent,

Telephone, 2065-2066 Madison Sq.

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CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK

Consignments Solicited

Telephone 7062 Madison Square.

Philadelphia.

A BANNER EASTER.

In reviewing the Easter trade just past the thing of most importance was the great volume of business and the large increase in the total sales over that of last or any previous season. To begin with the growers, theirs was most complete satisfaction, as, with the possible exception of a few specimen high-priced azaleas, there was nothing left. Mark Mills of Harris' said, "Best Easter trade we ever had, not a salable plant of any kind left and could have sold hundreds each of all the leading popular kinds had we had them. Look out for us next year, for big as it was, we are going to beat it then."

Robert Craig, Jr.'s report was: "Much the largest business we ever had; all our old customers bought largely and we opened many new accounts. As to what sold best it would be hard to say. Tausendschon roses were great favorites and not one was left. Lilies, every pot gone and the same all down the line. Azaleas were great favorites; also spireas, hybrid roses, in fact every plant with a flower sold; it was a great Easter."

Godfrey Aschmann was up to his eyes in business and as a result was entirely sold out and had to turn down orders for late comers. He says the weather was most favorable for shipping and stock carried splendidly. He is now busy filling up the empty benches with spring bedding plants which he always handles in large quantities.

Chas. Mackey sold every pot of his thousands of marguerites and hydrangeas everything being sold out before Easter week. Becker, Griffin Bros., Koehler, Colflesh, Anderson, Kuhn, Coles, Carpenter, Zimmer, Yates, Westcott, and in fact all the growers unite in saying it was the best Easter they have ever had.

THE RETAILERS.

In the stores the reports are most favorable. There was in nearly every case expressed a sense of satisfaction at the increase over previous years, and the satisfactory outcome in the shape of increased profits. There was not much novelty in the plant line. Fancy baskets of growing plants were seen in the best stores, Pennock Bros. making a feature of the new gilt baskets with the raised decorations. They are certainly the richest things to date and while quite expensive there are found plenty of discriminating people willing to pay the price. They also offered a number of the rambler rose, Hiawatha, which is one of the gilt edged Easter leaders. Any rose grower who does not include this grand variety in his stock for next season is certainly not up-to-date. There was also a good demand for cut flowers, violets having a great sale, the leading wholesalers handling them by the 100,000. Prices ranged from $10 to $15 per 1,000, finally settling at the former figure. The demand was for the doubles, the singles being nearly done. American Beauty roses sold out clean as in fact did all other kinds except white, which dragged and were very plentiful the Monday after. Easter lilies were good stock, most of the commission houses held them at $15, which is in great contrast to other seasons when $12 was about high. Last year $10 was thankfully received.

Warren Baker, son of Wm. J. Baker, was buried on Tuesday last. Mr. Baker, Jr., assisted his father for several years, but on account of ill health was obliged some six months ago to give up business. The sympathy of the trade goes out to Mr. Baker and his family in their affliction.

K.

WHITMAN, MASS.—The Barrows greenhouses have been sold to Arthur D. Reed, of North Abington.

READING, PA.—The Penn Flower Shop will go out of business owing to the purchase of the property at 636 Penn avenue by a local firm of jewelers.

Fischer's Grand Freesia Purity

The Unequalled, White Decorative Freesia.

Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have many more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed, avoiding all danger of mixture, as **Purity** does not come true from seed. Dealers getting getting their stock from me will always be sure of getting the purest stock.

For Sale by the Leading Seedsmen.

RUDOLPH FISCHER, San Gabriel, R. F. D., Calif.

Boston.

A FINE EASTER.

We may speak of the recent Easter trade in the most flattering terms, as everyone in this section feels amply satisfied with it. The retailers, as a whole, are jubilant and the only complaint to be heard is regarding the weather which seriously marred the first two of the three important days. Thursday was a genuine March day, no rain but a disagreeable wind preventing the people from entering the shopping districts. Then again on Friday a dismal rain storm occurred and for a time rather appalled the dealers. Saturday was a pleasant day and was one of the liveliest ever seen. More than ever was the desire for plants shown. Lily plants had to give way to the many species of far superior stock obtainable at no greater expense and more satisfying from every point of view. Dorothy Perkins and Hiawatha ramblers easily eclipsed anything of the sort ever displayed here before, and a superb line of azaleas in all sizes left nothing to be desired. Along with these, genistas, acacias and bougainvilleas were all shown in improved quality. A full line of bulb stock was seen on every hand. Lilacs, gardenias and lily of the valley, embracing all that was choice and pleasing, offered splendid inducements for novelty seekers and the entire stock was consumed. The cut flower department lost a good deal of business which would usually be cared for by reason of the splendid plant displays, and the retailers were not at all backward in showing their preferences. As a whole the growers were not prepared for the holiday with anything denoting quality. Everything was plentiful only of moderate value. Roses at Easter were never so common as this year and the price list showed it plainly. Outside of American Beauty which was in splendid form there was no first class rose obtainable, a serious reflection on our local growers. The stock of Beauties, mainly received from foreign growers, brought from $4 to $6 per dozen. Killarney and Richmond were poor. White Killarney was in great demand and largely oversold. This was the favorite rose. A good many Bridesmaid were discovered many of them in fine condition. Violets were abundant and the market price of $10 per 1,000 was held to until it was too late, when thousands were turned loose onto an already overfilled market at any price obtain-

GREENS....

We always have a large stock of **Wild Smilax, Galax, Leucothoes, Dagger Ferns** and all other **Greens.** We have the best in Philadelphia, and the quality of our stock will speak for itself.

Dagger Ferns, $2.50 per 1000.

The Leo Niessen Co.

Wholesale Florists, 1209 Arch St., Philadelphia, Pa.

AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

—Send For Prices.—

W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.
(Limited)

The Wholesale Florists of Pittsburgh,

222 Oliver Ave., PITTSBURGH, PA.

Headquarters for Choice Flowers.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.

W. E. McKissick & Bros.
WHOLESALE FLORISTS,

ABSOLUTELY THE BEST POSSIBLE SERVICE.

Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

J.B. Murdoch & Co.

714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

CHOICE

VALLEY, VIOLETS, ORCHIDS, BEAUTIES, PRIMROSES, PEAS,

THE McCALLUM CO., Inc. Pittsburg.

able. Lady Campbell was the backbone of the trade and in fair condition only. Owing to the lateness of the season single violets were not up to the standard and a difficult stock to handle. Carnations were as poor as have ever been shown and buyers were somewhat backward about filling up on questionable stock. Lilies were disappointing in most cases and the sales were strictly limited. An open space was found in the lily of the valley, orchid and gardenia stock. They were demanded with unusual vigor and the market was in no position to respond.

NOTES.

A large touring car, the property of Henry Penn, used in delivering during the holidays, became unmanageable and after some queer antics collided with a heavy iron fence guarding the foot of Bosworth street, breaking through and then dropping 10 feet to the pavement on Province street. The machine was totally demolished but no one was injured. The entire fence, in the center of which was the historic arch and lantern which has marked this as one of the city's first streets, was completely destroyed.

Wm. Sim was well prepared for the Easter trade with a fine stock of Princess and Boston violets, his cut approximating 150,000 blooms. The unexpected and extreme weather of the week worked havoc with his frame stock all primed for Easter cutting and on one day alone the damage from wind and rain destroyed over $1,000 worth of first class blooms.

Edgar Bros. of Waverley have announced themselves as among the leading sweet pea growers and were in ideal position to meet the Easter market. Thousands of the finest white, pink and lavender blooms were cut and a light sprinkling of the finer varieties of unusual types were seen.

Mann Bros. showed a fine line of Lilium candidum for the holiday and enjoyed a heavy call. A fine crop of Easter lilies was handled in excellent shape.

John O'Brien, a retailer on Beacon street, formerly on Boylston street, has been petitioned into bankruptcy with liabilities at $3,300. Assets uncertain.

B.

Wholesale Flower Markets

PHILADELPHIA, April 14	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, April 14.	Per 100
Roses, Beauty, specials	20 00@35 00
" " extras	10 00@15 00
" " No. 1	8 00@10 00
" " ordinary	6 00
" Bride, Bridesmaid	3 00@ 8 00
" Chatenay	3 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 2 50
Daffodils	2 00@ 2 50
Lilium Longiflorum	12 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50
Tulips	2 00@ 4 00
Violets, single	25
double	5C@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, April 14.	Per 100
Roses, Beauty, best	35 00@50 00
" " medium	20 00@25 00
" " culls	6 00@ 8 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	2 00@ 4 00
" fancy	4 00@ 6 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

Mobile, Ala.

Chatogue Greenhouses

TWO ACRES UNDER GLASS. ONLY HIGH CLASS FLORAL WORK SOLICITED.

Orders to be delivered at short notice in or near Mobile or New Orleans will be executed with fresh stock from our mammoth plant by our own artist at Mobile, or **Mr. U. J. Virgin, New Orleans** Orders by telegram at our expense.

Reference: R. G. Dunn & Co.

American Beauties

The finest in this Market.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

Steamship Sailings.

WEEK ENDING APRIL 24.

Apl. 18, President Lincoln, Hamburg-New York.
Apl. 20, Estonia, Libau-New York.
Apl. 20, Saxonia, Boston-Liverpool.
Apl. 20, Ivernia, Liverpool-Boston.
Apl. 20, Carpathia, Trieste-New York.
Apl. 21, Teutonic, New York-Southampton.
Apl. 21, Majestic, Southampton-New York.
Apl. 21, President Grant, New York-Hamburg.
Apl. 21, Perugia, New York-Naples.
Apl. 21, Campania, New York-Liverpool.
Apl. 22, La Savoie, New York-Havre.
Apl. 22, Sicilian, Portland-Glasgow.
Apl. 22, Hellig Olav, Copenhagen-New York.
Apl. 22, Manitou, Antwerp-Boston.
Apl. 22, Canada, Liverpool-Montreal.
Apl. 23, Celtic, Liverpool-New York.
Apl. 23, Republic, New York-Genoa.
Apl. 23, Empress of Britain, St. John-Liverpool.
Apl. 23, Empress of Ireland, Liverpool-St. John.
Apl. 24, Florida, New York-Havre.
Apl. 24, La Bretagne, New York-Havre.
Apl. 24, Chicago, Havre-New York.
Apl. 24, Lapland, New York-Antwerp.
Apl. 24, Zeeland, Antwerp-New York.
Apl. 24, Baltic, New York-Liverpool.
Apl. 24, K. Augusta Victoria, N.-Y. Hamburg.
Apl. 24, Tunisian, St. John-Liverpool.
Apl. 24, Furnessia, New York-Glasgow.
Apl. 24, California, Glasgow-New York.
Apl. 24, New York, New York-Southampton.
Apl. 24, Carmania, New York-Liverpool.
Apl. 24, Mauretania, Liverpool-New York.
Apl. 24, La Lorraine, Havre-New York.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

Kansas City, Mo.

Samuel Murray

...FLORIST...

1017 Broadway Coates House Conservatory

Both Phones 2670 Main.

Write, Telephone or Telegraph. All orders given prompt attention.

St. Louis, Mo,

Write, Wire or Phone Your Orders to

YOUNGS

1406 Olive Street,

Regular discount allowed on all orders, either Plants or Cut Flowers.

Phones Bell, Main 2306, Kinloch, Central 4981

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** 838 CANAL ST.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS,

Successor to Chas. W. Reimers'

329 FOURTH AVENUE.

Louisville, Ky.

JACOB SCHULZ,

550 So. Fourth Avenue.

San Francisco, Calif.

J. B. BOLAND

Successor to Sievers & Boland,

FLORIST,

60 KEARNEY STREET.

Los Angeles, Cal.

J. W. Wolfskill,

FLORIST,

Telegraph Orders a Specialty. 218 W. 4th St.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

Toronto, Can.

Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

Washington, D. C.
14th & H Sts.

Baltimore, Md.
1601 Eutaw Place.

Blackistone

Brooklyn, New York.

"WILSON"

3 and 5 Greene Ave. and 339 to 347 Greene Ave.

Greenhouses: Short Hills, N. J.

— Deliveries in —

NEW YORK, LONG ISLAND and NEW JERSEY

M. A. Bowe

IN HEART OF NEW YORK CITY

Phone 2270 38th St. 1294 Broadway

Our Motto—THE GOLDEN RULE.

New York.

MYER, FLORIST,

609-611 MADISON AVE.

Phone 5297 Plaza.

Omaha, Neb.

Hess & Swoboda,

FLORISTS,

1415 Farnum St. TELEPHONES 1501 and L 1582

Denver, Colo.

The Park ...Floral Co.

I. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable Cable address: "Daniels, Denver."

GUDE BROS. CO. FLORISTS 1214 F ST. N.W.

WASHINGTON D. C.

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Gude's

Philadelphia, Pa.

Robert Kift,

1725 Chestnut Street.

Prompt and Careful Attention given to all Mail and Telegraph orders.

Buffalo, N. Y.

Palmer's

Palmer & Son, 304 Main St

Albany, N. Y.

EYRES

Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL STREET,

Rochester, N. Y.

J. B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dis. Bell Phone

Indianapolis, Ind.

Bertermann Bros. Co.

FLORISTS

.....241 Massachusetts Ave.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

GREAT BRITAIN

WILLS & SEGAR,

Royal Exotic Nursery,

Onslow Crescent. S. Kensington, London

FLORISTS TO HIS MAJESTY THE KING.

We shall be pleased to carry out commissions from our American confreres to deliver CUT FLOWERS, FLORAL BASKETS, DESIGNS, etc., to any part of Great Britain.

Cablegrams—"FLOSCULO, LONDON."

Chicago.
Established in 1857.
Wittbold FLORIST
1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.
HAUSWIRTH FLORIST
M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.
JULIUS BAER,
138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.
The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.
Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long 'Phones

Kansas City, Mo.
GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

Atlanta, Ga.
ATLANTA FLORAL CO.
41 Peachtree Street.

Detroit, Mich.
John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.
Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.
HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Fred H. Weber,
FLORIST,
BOYLE and MARYLAND
Flowers delivered state or city on short notice. ST. Louis, Mo.

Owatonna, Minn.
Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

St. Paul, Minn.
L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Milwaukee, Wis.
C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
Western Union Code.

Terre Haute, Ind.
John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.
Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. Phone 1912.

Boston, Mass.
FRANK H. HOUGHTON
FLORIST
Telephone Connection. 396 Boylston St.

Anderson, S. C.
THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

DROUGHT since November has done great damage in southwestern Texas, practically ruining the cabbage crop.

TARIFF.—Seedsmen should again write their senators and congressmen to stand for specific duties on both seeds and bulbs.

THOMAS M. HUNTER, formerly a Chicago seedsman, now chief bailiff of the municipal court, thinks his pay should be $12,000 annually.

THE senate tariff bill is understood to have been completed, giving seeds a specific schedule as asked by the seedsmen's committee. But the bulb section has not yet been approved of on the same basis.

MCMINNVILLE, ORE.—C. S. Crego, late of Chicago, has just completed arrangements to start a seed growing farm here. His Crego asters, which are well known in the principal markets will be the specialty.

"HALFTONES may be fully as untrue to nature as the much abused lithograph, but they are far more deceiving to the average buyer," said a successful catalogue man not long ago in talking of illustrations.

HENRY ECKFORD, the English originator of sweet peas, was deprived of his highest reward in passing away before his favorite flower had reached the high tide of popularity which it now enjoys in Europe and America.

CHICAGO.—A. H. Goodwin, now in the Italian Swiss lake region, sails for home May 1.—Contract prices on the board of trade April 14 for grass seed were noted as follows: Prime timothy, $3.80 (nominal), white clover, $16.

THE penalty for the violation of the proposed pure seed law in North Dakota is a minimum fine of $10 and costs and maximum $100 and costs for the first offence; and a minimum of $100 and costs and maximum $500 and costs for the second or any subsequent offence. Copy of the proposed law can be had of Oscar H. Will & Co., Bismarck, N. D.

HOLLISTER, CALIF.—Charles P. Braslan of San Jose has commenced an action in the Superior Court of San Francisco against A. J. Pieters, Hattie M. Pieters, George W. Jean, A. J. Pieters Seed Company, W. H. Metson, Edgar T. Zook, Rudolph Herold, Jr. et al., asking for an accounting and the appointment of a receiver. Judge Van Nostrand will hear the case on April 23 why a receiver should not be appointed.—San Jose Mercury, April 10.

NEW YORK.—Wm. E. Cahill, Stumpp & Walter's popular representative, is still on the sick list. He is staying with relatives at East Bridgewater, Mass.—Vaughan's Seed Store after May 1 will be located at 25 Barclay street, corner of Church street, formerly Dorscher's restaurant and cafe. This place has been known to the trade for many years as the "Bulb Exchange." The premises have been thoroughly overhauled, the changes including new fronts on Barclay and Church streets. The firm has also leased extensive warehousing quarters with up-to-date storage facilities in Hoboken, rendered necessary by increasing business.—It is thought probable that the Wm. Hagemann business will be continued by the heirs.

Selling Texas' Big Onion Crop.

The development of the Texas onion industry is a very interesting subject. Previous to 1900, there were no onions grown on a commercial scale, but George Copp, who doubtless was familiar with the Bermuda methods, began in that year to experiment in Cotulla. This proved successful and in 1903, some 100 carloads were marketed. In 1906, the acreage was so increased that 1,000 carloads were shipped and the Southern Texas Truck Growers' Association was formed to market the product. Last year 2400 carloads were marketed and this will be exceeded this year. The above association has a sales manager and a selling price of 12-15, besides 150 brokers handling its products. The membership includes 500 growers and the policy of the organization is established by them. Until the present year onions only were handled, but this year all kinds of truck produce that is marketed in carload lots are included.

The Texas onion, according to the Manufacturers' Record, has practically eliminated the Bermuda onion, assisted by the present tariff. The season for the Texas onion is somewhat brief as the bulbs do not keep well. Shipments begin in March and are usually over in three months, winter onions from other states then taking up the supply of the market. Texas has a great advantage over California in the matter of freight rates and, as the onions mature three weeks earlier, they are quickly marketed in all the states from Washington to Maine and from Florida to Saskatchewan. Under ordinary circumstances the onion crop is worth about $1,000,000 a year; the profit to the growers depends lagely upon individual skill, some making very big money, others much less. The association has been a great help in many ways to the growers. All the seed needed is bought and imported direct from the Canary islands and membership in the association insures the grower credit for the purchase of crates and other necessities of the trade. Its work has been so satisfactory in every way that other growers of onion crops in this and other states would do well to entertain the idea of similar organization.

Worthless Novelties.

It is very unfortunate that the great awakening of Americans to the fact that a better and healthier life exists than can be obtained by the average individual of the city, is being worked by all sorts and conditions of men and women. Hundreds of articles are printed that have absolutely no value. They are written by people whose entire knowledge of the outdoor life is obtained through some encyclopedia, date of publication immaterial. Said articles are evidently passed upon by people possessing high literary judgment rather than basic knowledge of outdoors. Added to this is the stupendous amount of literary-varnish hidden advertising, covering stuff that years ago was tried and found wanting or of no commercial value whatever. Take for example the continuous bearing strawberry. This cute little white or pink berry has a long season and we have raised a little patch of it for years because the children use the fruit in playing doll house. No one would think of eating one of them if he had ever tasted real strawberries even of the particularly acid varieties generally raised by commercial growers, because they will ship well and look pretty. These little alpine berries have no merit whatever beyond their small size and the pleasure they give the children.

Another positively criminal novelty being pushed forward as a fodder plant is the spineless cactus. This fiendish thing was evidently designed by nature to grow where nothing else would. It wasn't discovered nor invented or wizarded by anybody. Every old time cowboy and every real traveler in Mexico knows that occasionally a plant of cactus without the long hard spines is found. He further knows that cattle or horses thirsty unto death, or absolutely lacking any other food will chew cactus mainly for the sweetish liquid found in the spongy pulp inside the leaf. Likewise the man who has lived the plainsman's life knows that though lacking spines, the spineless cactus usually has a superb assortment of short, needle-like hairs which irritate the flesh of the hand or mouth tremendously. No one in the wide, wide world will ever grow cactus if any other green thing will grow where he is exiled, because no man will stay in such a barren country unless it's impossible for him to get away. The famous fruit of the cactus, called tuna, is edible and so are acorns and raw potatoes, but no one living would drop the poorest known variety of apple, pear or peach to eat a tuna. There are many other things like the above that have saved life and that people will eat when they can obtain nothing else, but it is certainly dead wrong to bamboozle any one into permitting cactus to occupy ground that would produce even fairly good human or animal food.

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS, MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.(0	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

We believe thoroughly in trying new varieties and each year we do try a great number of new things, some of them turn out well and some prove absolutely worthless. If we find one new thing of value or even an improvement on some established standard we are thoroughly satisfied and don't hesitate to go at it again the following year. But where we run up against a thing that is being sold evidently on somebody's name or because of a good, big, advertising appropriation skillfully handled, yet without backing by test, we go at it very sparingly indeed. If it's a good thing it's easy enough to get more, and if it's a poor thing the less time and money spent the better.—Long Island Agronomist.

Mice Versus Garden Seeds.

A new terror, especially to lady clerks, has come with the establishment of the government seed depository at Washington from which congressmen supply constituents with samples, says the Troy Times. The seeds are quite as attractive to mice as to men, and the building where the grain is stored is overrun with the creatures. As most of those employed in doing up the packages are girls, a fearsome state of things is prevailing in that branch of the government service.

Imports.

During the week ending April 10 imports were received at New York as follows:

Maltus & Ware, 64 cases, two pkgs. plants.
Wadley & Smythe, 44 cases plants.
Julius Roehrs Co., 33 cases plants, 36 cases trees and shrubs.
McHutchinson & Co., 55 pkgs. plants.
P. Ouwerkerk, 111 cases trees, 148 boxes lilies.
A. Rolker & Sons, 15 cases trees.
F. R. Pierson Co., five cases trees.
Fruit Auction Co., nine cases plants, 10 cases trees and shrubs.
Stumpp & Walter Co., five cases plants.
J. M. Thorburn & Co., 1 case flower seed, 13 boxes bulbs, 10 pkgs. shrubs.
H. Nungesser & Co., 130 bags clover seed, 1 box palm leaves.
R. F. Downing & Co., three boxes lily bulbs.
Henry & Lee, one case palms.
To others, 15 cases, 368 pkgs. plants, 23 cases, 441 pkgs., trees and shrubs, 175 bags seed, 60 cases, 36 pkgs. bulbs.

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.
VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; 1/8-oz. $1.50 1/4-oz. $2.50; 1/2-oz. $4.50; 1-oz. $8.00.
VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz. 25c.; 1-16 oz. 40c.; 1/8-oz. 60c.; 1/4-oz. $1.00; 1/2-oz. $1.75; 1-oz. $3.00.
Send for our Aster Book for Florists.
James Vicks' Sons, Rochester, N. Y.

Asparagus Plumosus Nanus
Last year, owing to the almost total failure of the Asraragus Plumosus to seed, I was unable to fill my orders but this season I am to the front with about 2 000 000 seeds.
The plants after a year's rest blossomed freely and matured a heavy crop of what I believe will be the strongest seed ever sent out of California. The Asparagus Plumosus grown here needs no introduction to you, however, as you are already fully acqaainted with its merits. You can get seeds promptly, as they are being harvested now, and can be delivered upon receipt of your order.
Seed will be sold by count, with the usual guarantee as to germination, and I will again sell at my usual low, cash-with-order prices as per following list.
1,000 seeds... $ 2.00 13,000 seeds... $20.00
6,000 seeds... 10.00 25,000 seeds... 35.00
50,000 seeds....... $62.50
I shall be glad to receive your order and know you will be pleased with the results.
F. GILMAN TAYLOR,
630 H. W.Hellman Bldg., LOS ANGELES, CAL.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U.S. through seedsmen and dealers, and not through growers' associations.
Varela's Improved Onion Seeds will give best satisfaction to growers. Insist on getting them It will pay you.
Federico C. Varela, Tenerifte, Canary Islands

Skidelsky & Irwin Co.
SEEDS, BULBS AND PLANTS.
144 N. 7th St., PHILADELPHIA
KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

The Everett B. Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true.
About **90 per cent.** Double Flowers
In colors..........1/8-oz. 60c; oz. $4.00
Pure white..........1/8-oz. 75c; oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelo.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages. **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums, **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Notes on Mushrooms.

KEEPING UP THE QUALITY.

Many growers who produce good mushrooms during the first few weeks of a bed's bearing have not the happy faculty of maintaining the quality of the produce as the beds get older. The mushrooms that at first were thick and juicy become smaller and comparatively dry after a time. No one would think of allowing crop after crop of one kind of a slower growing vegetable to be taken from a piece of ground without anything being added to maintain its fertility, yet this is just what is expected from mushrooms. Presumably because they grow quickly they are supposed, in the few inches of manure supplied them, to keep on for months without any outside assistance.

The writer is not a chemist and knows little of plant physiology, but has studied the mushroom and its culture for many years along purely practical lines. One result of this is the knowledge that moisture is one of the principal requirements of the rapidly formed tissue of the mushroom. A constant supply of moisture at a suitable temperature and possibly under certain other conditions that render it available for the food of the plant, is absolutely necessary. Watering overhead, however, is not a sufficient or suitable method of supplying this moisture. The use of common salt, either sprinkled on the beds or given in solution in water, is one of the greatest aids known to the mushroom grower who wishes to keep up the available supply of moisture in the beds without constant watering and thereby maintain a good standard of quality in the produce.

The cooling qualities of salt are well known and we have heard growers condemn it for this reason. Personally we have no fears on this score; if used in altogether unnecessary quantities its effect may be to so cool the bed that the mycelium threads would cease running but that is not the way we use it. After about three weeks of heavy bearing we apply the first dressing of salt. It is difficult to say the exact weight we use per yard, but the appearance of the beds after the dressing is like that of newly turned up soil on a frosty day when the white tips show here and there about as large as a quarter of a dollar and an inch or two apart. A poor description, perhaps, but probably most growers will comprehend.

After this dressing we do not water the beds but damp the floor and all available dry places in the house thoroughly, the floor being, in many cases, absolutely soaking in water. The covering is replaced on the beds and the next morning, when opened up, the surface of the soil has that moist, dewy-morning appearance and feel that all mushroom growers delight in. Yet not a drop of water was poured directly upon the beds; the moisture is attracted in a more natural way. Pouring cold water on the beds not only makes the soil mechanically unsuitable for the mycelium to spread but it makes the bulk of the material cooler than the temperature of the house. This temperature question is a troublesome one and various methods, such as laying hot manure at the end of the beds, have been recommended, but, according to our experience, this is not a very satisfactory method. We rely upon careful preparation of the material in the first place and the avoidance of heavy waterings to keep the temperature of the bed about the same as that of the house and let it go at that.

At frequent intervals, after the first dressing of salt, the beds are sprinkled with weak solutions of nitrate of soda and salt alternately. We never use clear water in fact, but, owing to the moist state of the atmosphere, the waterings are not as frequent as they would otherwise be. If they were we would probably have to use clear water between times. Growers will observe that we are not putting this forward as a panacea for all mushroom troubles, which are many unless everything is well arranged and all necessary details carried out. But where the beds are correctly made of

MUSHROOMS OF GOOD QUALITY.

VEGETABLE PLANTS

For Transplanting.

	1000
Cabbage, Wakefield and Succession	$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100:	3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain 40c per 100	3 00
Chinese Giant and Cayenne...50c per 100	
Tomato, Earliana, Chalk's Jewell, and Early June Pink 30c per 100	2 00
Stone, Favorite and Paragon, small plants	1 00
Celery, Small for transplanting White Plume and Golden Self Blanching	1 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

NEW CANNA

W A W A

A new shade of beautiful soft pink

splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List.—

The Conard & Jones Co.

WEST GROVE, PA.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

CALLA BULBS For Sale. LILYDALE QUALITY.

Lilydale, Santa Cruz, Calif. Photographed in February.

Prices Quoted for July Delivery.

50,000 Blooms For Sale.

LILYDALE BULB & ROOT CO., Santa Cruz, California.

VAN ZANTEN BROTHERS

Royal Netherlands Bulb Nurseries and Export Trade.

HILLEGOM, HOLLAND.

Wholesale growers of the leading sorts of **Hyacinths, Tulips, Narcissus, Crocus, Spireas, Gladiolus, Peonies, etc., etc.**

Write our traveler, **MR. G. HYLKEMA, care of Messrs. Maltus & Ware, 14 Stone St., New York,** for Catalogue and Special prices of all

Holland Bulbs and Plants.

good materials, where the atmosphere is kept right and where judicious use of covering material is made the application of food of this nature to mushrooms is of great assistance in maintaining the quality on beds that have been long in bearing. COMMERCIAL.

Stem Rot in Tomatoes.

ED. AMERICAN FLORIST:—

My tomato plants rot off at the surface of the soil. I have never had this trouble before and would appreciate it if you would tell me what to do with them. K.

If K. had given a few particulars, or better still sent a sample of the plants, we might have helped him, but in the absence of this we can only guess at what is wrong. Small plants in the seedling stage are frequently eaten off at the surface of the soil by insects and on examination appear to have rotted off. Later on, some external injury often occurs to them and causes them to damp off, while faulty watering has the same effect. Then there are several fungoid troubles that attack tomato plants and any of these may be the cause of the trouble. But in the absence of information along the lines suggested we cannot help "K." further than this.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

April is the month to sow this seed.

ASPARAGUS PLUMOSUS NANUS,

Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points April 10 were as follows: New York, cucumbers, 50 cents to $1.50 per dozen; lettuce, $2 to $2.50 per strap; mushrooms, 25 cents to 55 cents per pound; mint, 30 cents to 50 cents per dozen bunches; radishes, $1.50 to $2 per 100 bunches; rhubarb, $2 to $6 per 100 bunches; tomatoes, 10 cents to 25 cents per pound. Chicago, cucumbers, $1.25 to $2 per dozen; head lettuce, $1.50 to $2.50 per hamper; mushrooms, 40 cents to 85 cents per pound; tomatoes, 10 cents to 20 cents per pound; radishes, 40 cents to 60 cents per dozen bunches; asparagus, $2 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 cents to 75 cents per dozen; rhubarb, 6 cents to 10 cents per pound, extra fancy, 14 cents per pound; French endives, 25 cents to 40 cents per pound. Kansas City, cucumbers, $1 to $2 per dozen. Cincinnati, cucumbers, $1 per dozen; mushrooms, 50 cents per pound. Boston, cucumbers, $6 to $7 per box.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-Presdent; George C. Seager, Rochester, N. Y., Sec'y. Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

TYLER, TEX.—A certificate of dissolution has been filed by the Sneed Nursery and Orchard Co.

STAMFORD, CONN.—The Fernwood Nursery of New York, has bought the Lowell M. Palmer place, Hubbard's Hill.

CANAL DOVER, O.—Daniel Wyss of New Philadelphia has purchased a tract of land northeast of the city for nursery purposes.

ASHLAND, ORE.—T. H. Thompson has just completed the planting of a large tract in Bellevue to fruit. He reports trade very active.

INVESTORS are being warned, in the western daily newspapers, against bogus eucalyptus planting schemes run by company promoters.

PORTLAND, ORE.—The Salem Nursery Co. has been incorporated with capital stock $5,000. F. J. Rupert, R. E. Parsons and Roy L. Smith are incorporators.

AUSTIN, ARK.—Joseph Anthony, proprietor of the Anthony Union Nursery Co., died at his home, March 29, of consumption at the age of 42. He leaves a widow, two sons and three daughters.

VISITED CHICAGO.—Nic. Van Hevelingen, representing Kersbergen Bros., Boskoop, Holland. This firm is offering an attractive new rose of the Baby Rambler type, Boskoop Baby, a cross of Mme. Levavasseur and Euphrosine; Henry Kallen, representing Kallen & Lunnemann, Boskoop.

BILLINGS, MONT.—A new nursery company is soon to be incorporated to do a general nursery business in this city. W. H. Ralston, for many years salesman for the Jewel Nursery Co., and M. I. Tuttle of Fort Morgan, Colo., will be active in the new concern. A 40-acre tract west of the city has been purchased and the lumber for a number of the buildings is already on the ground. Berry plants in variety will be a specialty of the new firm.

TARIFF.—Chairman Rouse of the tariff committee of the American Association of Nurserymen says: "The Payne bill as passed by the house gave us what we asked for on mahaleb and mazzard cherry and myrobolan plum stocks, but made no change on any other items from rates carried by the Dingley act." On the items noted the committee sought a specific duty of $1 per 1,000 plants instead of, as at present, 50 cents per 1,000 plants and 15 per cent ad valorem.

Arnold Arboretum Notes.

A recent visit to the Arnold Arboretum found the veteran Jackson Dawson and his new assistant, — Thatcher, busy superintending the transplanting of shrubs from the nursery to some new plantings on the grounds. The season, as a whole, has been favorable, and most of the shrubs and trees have come safely through the winter. Here and there are signs of expanding leaf or flower buds and in a few weeks the beautiful walks and drives will prove the usual attraction to thousands.

In the small greenhouse and numerous frames was the magnet that had drawn the writer to Mr. Dawson's domain. This was the collection of tiny seedlings, numbering up to hundreds of thousands, and comprising perhaps 2,000 species of trees and shrubs. This lot of seedlings comprises a part only of the collection forwarded from China by E. H. Wilson. Mr. Wilson has spent the last two years in the comparatively unknown parts of the Chinese empire, collecting these seeds for the Arnold Arboretum. Very few people have any idea of the magnitude of the work he has accomplished. Fifty-six species of rhododendrons alone are represented by some 40,000 little plants in pans. Fifteen or 20 new viburnums, as many species of lonicera, and a great many new berberises are among the subjects that should be closely watched by all horticulturists. There are new chestnuts with leaves closely resembling the oaks, numerous and varied forms of oaks, castanotis, a tree with a nut seemingly intermediate between the oak and chestnut, thousands of pinus, cherries, peaches, aralias and several species of very rare magnolias.

A brief visit was all too short to inspect and enumerate the many interesting things in this collection. It will be strange indeed if this varied assortment of hardy subjects do not include many of great value to the various sections of our country. Some day we shall appreciate the magnificent work Professor Sargent and the Arboretum is doing. Mr. Wilson has completed his present trip and is expected to reach Boston on his return, early this summer. He brings with him the dried fruits of all the species that have been collected and from these fruits Professor Sargent will proceed to classify and identify the various plants in the collection.

In some of the frames are the results of earlier collections from China, Japan and Corea, many of them nearly large enough for trial in the open ground. A fine lot of various rhododendrons from Corea was noted and an especially fine berberis, with leaf of very distinct form and as finely colored as B. aquifolia.

Mr. Purdom, also in the employ of the Arboretum, has just about reached Hong Kong, bound on a collecting tour in northern China. A great deal of Mr. Wilson's work was on the frontier of Thibet.

Forest Service Nursery in Montana.

In order to arrange for the replanting of parts of the forests in District No. 1, the officials of the service have set aside a tract on the national forest at Helena, Mont., which is to be used for raising seedlings. The tract comprises 10 acres and on it will be raised from 1,000,000 to 2,000,000 seedlings which, when sufficiently grown, will be transplanted to the various forests in the district. An expert has been detailed from the service and will have charge of the nursery. He will attend to all the planting and growing of the young trees and will have charge of their transplanting. The forest service may also, at its own expense, furnish trees and plants for the city park on Mount Helena.

Native Shrubs in the Parks.

We cut the following eloquent little peroration from a paper read by Miss E. F. Andrews, Montgomery, before the Alabama State Horticultural Society:

"I have called attention to only a few of the more common of our ornamental wild shrubs. Besides these there are many others growing in the woods and swamps around us whose very names are unknown to the majority of people. Notable among these, are itea, clethra, andromeda, and the brilliant stuartia and gordonia, of the camellia family. It is not easy to say how far all these would lend themselves to the ornamentation of our city homes. There should be congruity in all things; and the conditions of city life are so artificial that the shy gypsies of the forest would perhaps not take kindly to the change. But there is one place where they would feel at home, and ought to be made at home, and that is our city parks. Every kind of native fern and wild flower and ornamental shrub or tree—such as the dogwood, sourwood, red bud, old man's beard, the spice bush, silver bell and snowdrop trees, the wild crab and the flowering plum, ought to be collected and planted there. In this way our parks would not only be made more beautiful,

PROF. C. S. SARGENT, OF THE ARNOLD ARBORETUM.
Photograph Copyrighted by Thos. E. Marr.

W. van Kleef & Sons, Wholesale Growers of Nursery Stock .... BOSKOOP (Holland)

Beg to announce to the trade that their **W. van Kleef, Jr.,** is again in America calling on the trade.

Address all correspondence during April and May care of **Messrs. Maltus & Ware, 14 Stone St., New York**

FROM GROWER TO PLANTER

Ellwanger & Barry's

TREES

Shrubs, Roses Evergreens and Hardy Plants

Are Famous The World Over

Best stock at reasonable prices. No agents. Commissions saved. Collections unequalled. Beautiful illustrated catalogue mailed *free* on request.

MOUNT HOPE NURSERIES

ESTABLISHED 1840 *Box Q, Rochester, N. Y.*

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige, Mme. Plantier, Alfred Colomb, Perle des Blanches, Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.

Tausendschon, the great new climber $20.00 per 100
Crimson Baby Rambler..... 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

but would become a sort of museum of plant history, where the children could go and study the native growth of their own state, about which many of us know less than about the exotics that have come to us from foreign lands. In our wastefulness and destructiveness the choicest of our wild plants are rapidly approaching extinction, and unless something can be done to protect them, the world of nature, like our collective human nature, threatens to resolve itself into a lawless proletariat of noxious weeds on the one hand, and an aristocracy of pampered exotics on the other. Public sentiment has, with much difficulty, at last been educated up to the point of defending our song birds, and if this society shall lend its influence to the creation of a like sentiment in favor of the wild flowers and trees, it would justify its existence by that alone, even if it did nothing else."

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2 ft.	$1 50	$2 75	4 ft.	$4 00	$ 7 00
3½ ft.	3 00	5 50	5 ft.	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
18-22 in.	20-22 in	$3 00	$5 50	18-22 in.	30-32 in	$5 50	$10 00
22-24 in.	22-24 in	4 50	8 00	22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c; per doz., $4 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

84-86 Randolph St., CHICAGO. **14 Barclay St., NEW YORK.**

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft.	1.75
2½ to 3 ft. high	2.00
	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds, 18 to 24 in. high	$ 75.00
12 to 14 buds, 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00

	Per 100
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better	$10.00 per 1000 $11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft. high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

THE STORRS & HARRISON CO., Painesville, O.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Roses** Dwarf, Climbing, Tree and Ramblers.

CLEMATIS, and all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.

ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.

Write for descriptions and prices.

THE WM. H. MOON CO.,
Morrisville, Pa.

American Everblooming Hydrangeas

Strong, field-grown plants, 15 inches and up, $2.50 per doz., $15.00 per 100; the same, 10 to 14 inches, $1.50 per doz., $10.00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000; B. Thunbergii Seedlings, 5 to 7 inches, $1.50 per 100, $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3ft., cheap.

THE E. Y. TEAS CO., Centerville, Ind.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

Hindering Spraying Operations.

At the request of Attorney L. F. Wingard of Champaign, Ill., special agent of the state entomologists, State's Attorney Robert Tilton, April 5, filed complaint against Robt. K. DeFreitas, James Nunes and Martin Souza, charging them with offering hindrance to the work of the department in spraying infected nursery stock. The cases were called in Esquire Dyer's court and the case against DeFreitas was dismissed upon the payment of the minimum fine of $10 and costs. The cases against Nunes and Souza were continued 10 days.

Under the state law, inspectors under the direction of the state entomologist may examine nursery stock, and if it is found to be infested, order the owner to spray it. If the owner refuses, the state may spray it at his expense. It seems that in the cases above that inspectors had found nursery stock infested and had ordered it sprayed. Upon failure so to do, officers of the state had been hindered in their efforts to spray the stock and as a result an appeal was made to the state's attorney to file complaint. The statute for offenses of this character makes the minimum fine $10 and maximum fine $100.—Jacksonville Journal.

Texas Nurserymen's Association.

At a meeting of the Texas Nurserymen's Association, held at Austin, March 30, the following resolutions were passed:

Resolved, That the members of the Texas Nurserymen's Association and others assembled at Austin are impressed with the great importance of the work devolving upon our Department of Agriculture of Texas, and that to discharge these obligations will require a strong appropriation of funds.

Resolved further, That we believe that amounts asked for by Commissioner Kane, namely, $30,000 for the Agricultural Department proper, and $10,000 for the orchard and nursery inspection laws, are very conservative estimates. We hereby urge the appropriation committee of the thirty-first legislature to grant the said appropriations amounting to $40,000.

Resolved further, That the Texas Nurserymen's Association appreciates highly the efforts of the Agricultural Department and the entire administration in securing proper amendment and enforcement of adequate inspection laws, and we pledge our co-operation and support of such laws, looking to the safety and development of our horticultural interests.

Resolved, That the sincere thanks of the nurserymen and horticulturists of Texas are tendered Gov. Campbell, the Department of Agriculture and many others of the administration for the courtesies extended us while in Austin and for efficient interest in the work in hand.

Resolved, That we learn with deep regret of the protracted illness of Hon. E. W. Kirkpatrick, our long-time member, co-worker and friend, and we wish for his speedy recovery.

Three Useful Roses.

Among the most beautiful roses we have, one must include Rosa sinica Anemone and Macartney; but they are both, unfortunately, tender, and only under quite exceptional conditions can we see them at their best. Fortunately, we have some newer varieties that are quite hardy, of extra strong growth, certain to bloom every season, and that afford us the same delicate colors. R. sinica is also known as lævigata. Camellia du Japon and the Cherokee rose. It is a very large white flower, while another named sinica Anemone is silvery pink, shaded with rose. The Macartney rose has a second name in Rosa bracteata and is pure white, while all of them are single. Now, in place of old

King Humbert Cannas

We have a grand lot, 3-in., $7.50; 4-in., $10.00 per 100. Order quick.

A grand lot of Blooming Plants for May Day.

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

CANNAS

	Per 100
10 varieties, 3-in. pots, April 25	4 00
Alternantheras, red and yellow	2 00
Coleus, 10 varieties	2 00
Verbenas, April 25	2 00
Vinca Var., 2¼-in. pots	2 50

GERANIUMS

	Per 100
8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in pots	4 00
Double Petunias	3 00
Asp. Sprengeri, April 25	2 00

Asparagus Plumosus Seed, new crop.....$2 00 per 1000

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

We have on hand a large consignment of

Japanese Bamboo Canes

Fine, Strong Quality.

NATURAL.	Per 1000
6 ft., heavy, original bundle of 2,500	$4 25
6 ft., medium, " " 2,500	3 50
5-6 ft., pencil thickness, original bundle of 5,000	3 25
4-5 ft., pencil thickness, original bnndle of 5,000	2 75
3 ft., pencil thickness, original bundle of 5,000	2 25

GREEN COLORED.	Per 1000
1½ ft., original bundle of 4,000	$1 20
2 ft., " " " 4,000	1 85
2½ ft., " " " 4,000	3 00
3 ft., " " " 4,000	3 50
3½ ft., " " " 4,000	3 75

Sold in original bundles only.
Samples on application.

Cycas Stems.

Fine straight stems, in case lots of 300 lbs., assorted; 4 10 lbs., ½ 4 lbs., ½ 2 lbs., 2 10 lbs.....$19 50 per case

Kudzu Vine Roots.

Strong, heavy quality, 1000 at.....$50 00
" " " 100 at..... 7 50

The Yokohama Nursery Co.,

31 Barclay St., NEW YORK CITY.

ARAUCARIAS

EXCELSA

Fine Stock

5-in, 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls., 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in. high, each, **$1.25** doz. **$14.00.**

VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., **CHICAGO.**

14 Barclay St., NEW YORK.

Bedding Plants

Per 100

Ageratum, Little Blue Star; **Alternantheras,** 4 kinds, R. C., 60c per 100; 2¼-in.....$2.00
Asters, Dreer's best varieties, 2¼-in..... 2.50
Alyssum, Double Giant and Dwarf; **Coleus,** 10 varieties R. C., 75c per 100; 2¼-in..... 2.00
Geraniums, standard varieties, R. C., $1.75 per 100, $15.00 per 1000; 2¼-in., $3.00 per 100, $25.00 per 1000.
Hollyhocks, double, separate colors, 2¼-in..... 2.50
Lobelia Compacta and Speciosa, 2¼-in..... 2.50
Salvias, 5 varieties, R.C., $1.00 per 100; 2¼-in. 2.50
Verbenas, separate colors, 2¼-in..... 2.50
Dracena Indivisa, 4-in., $12.00 per 100; 5-in..20.00
Vinca Variegated, R.C., $1.00 per 100; 2¼-in. 2.50

Still a few **Cannas** left. Do you need any?
A fine stock of **Perennials.** Send for list.

Mosbaek Greenhouse Co., Onarga, Ill.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high.....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

Made-up Kentia Forsteriana.

9-in. tubs, 42 to 48-in. high.....$5 00 each
12-in. tubs, 4 plants in tub, 6-ft. high....15 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

Always mention The American Florist when you order stock. : : :

Paris Daisy, Giant white, yellow, 2-in. 2c.
Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c.
Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem). 2-in., 2c. **Asters,** Earliest, 40c per 100. **Stocks,** Princess Alice, 40c per 100.
Hollyhock, Single field, $2 00 per 100.
Wallflowers, field, $1.00 per 100.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, yellow; **Swainsona,** alba, $1 00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c, $8 00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5 00 per 1000; **Artillery Plant, Hardy Pinks,** 75c; **Flowering Begonias,** $1.25; **Fuchsias,** 8 kinds, $1.00; **Salvia,** Splendens, Bonfire, 90c per 100; **Parlor Ivy,** 75c; **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Varieg.,** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula.** Obc. Grandif. Lilac, 2¼-in., strong stock, $1-75 per 100; 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo. S. Kalb, fine early; Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset, Jeannie Nonin, October Frost, Early Snow, Angele Laurent.
Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean, Pink Ivory, Rosette.
Yellow—Major Bonnaffon, Cremo, Robt. Halliday, "Baby," small yellow of the button type.
50,000 Rooted cuttings ready. Send for prices.

WM. SWAYNE, Box 226, KENNNETT SQUARE, PA

Dreer's Novelties in Hardy Perennials

New or Little Known Varieties Worthy of Special Attention.

LUPINUS POLYPHYLLUS ROSEUS.

Anchusa Italica Dropmore Variety. A grand improvement on the type, with intense deep blue flowers, $2.00 per doz.; $15.00 per 100.

Anthericum Liliastrum Giganteum. A giant form of the N. Bruno Lily with very large white flowers, $2.50 per doz.; $20.00 per 100.

Aquilegia Helenæ. One of the best of the Columbines, large pretty blue flowers, with large white corolla, 85 cts. per doz.; $6.00 per 100.

Campanula Persicifolia Humosa. A very large semi-double form of the peach leaved Campanula, flowers of a pleasing shade of blue, $1.50 per doz.; $10.00 per 100.

Delphinium Gold Medal Hybrids. The finest strain ever offered in mixed varieties, $1.25 per doz.; $8.00 per 100.

Delphinium Belladonna. The freest flowering of all Delphiniums, it is never out of bloom, beautiful turquoise blue, $2.00 per doz; $15.00 per 100.

Funkia Robusta Elegans Variegata. A decided improvement on all variegated forms, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Gem. A new variety that originated on our trial grounds. Flowers old gold, suffused with bright terra cotta, changing as they mature to a wallflower-red, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Beauty. Another variety which originated with us, quite distinct in color, which is lemon-yellow, with a large disc of purplish-black, $1.50 per doz.; $10.00 per 100.

Helianthus Sparsifolius. The most desirable of all the hardy sunflowers, especially valuable as a cut flower, 85 cts. per doz.; $6.00 per 100.

Four Valuable Hemerocallis. The four varieties here offered are great improvements upon the well-known Yellow Day Lilies.

Aurantiaca. Very large, bright, orange-yellow, sweet-scented flowers, 15 cts. each; $1.50 per doz.

Aurantiaca Major. Large trumpet-shaped, sweet-scented, deep orange flowers. Requires protection, 35 cts. each; $3.50 per doz.

Florham. Large golden-yellow sweet-scented flowers; very free flowering, 15 cts. each; $1.50 per doz.; $10.00 per 100.

Gold Dust. Large golden-yellow flowers, 15 cts. each; $1.50 per doz.

Incarvillea Delavayi. Popularly known as the hardy Gloxinia; extra strong roots. $2.00 per doz.; $15.00 per 100.

Iris Pallida Dalmatica Folia Variegata. A strikingly handsome variegated leaved form of this beautiful blue Iris, 35 cts. each; $3.50 per doz.

Gypsophila Paniculata Flore Plena. This is a perfect gem and as a summer cut-flower invaluable. We have a large stock of strong roots to offer this season, $2.00 per doz.; $15.00 per 100.

Lupinus Polyphyllus Roseus. This is a most attractive rosy pink form of Lupinus, producing gigantic spikes of flowers, $2.00 per doz.; $15.00 per 100.

Pentstemon Gentianoides Sensation. Gloxinia-like flowers in a variety of bright colors, including rose, cherry, crimson, purple, lilac, etc. For bedding they rival Phloxes, Petunias, etc. Not quite hardy, 3-inch pots, $1.00 per doz.; $7.00 per 100.

Primula Cortusoides Sieboldi. These are not so well known as they deserve; they are of free, vigorous growth, and can be flowered in pots in early spring, and respond quickly to forcing when placed in a temperature of 50 degrees, forming pretty pot plants in a short time, making excellent window plants, which meet with ready sale when in bloom.

We offer six distinct varieties, from pure white to the deepest rose in color, $1.50 per doz.; $10.00 per 100.

Rudbeckia Rays of Gold. In this new variety we have a refined form of the popular "Golden Glow," with which it is identical in color, habit, etc., but the flowers have narrower petals, full to the center, forming a perfect ball of gold. $1.50 per doz.; $10.00 per 100.

Stokesia Cyanea Alba. A white form of the popular blue Stokesia, equally valuable and a desirable addition; strong plants, $1.25 per doz.; $8.00 per 100.

Choice New Trollius. (New Globe Flowers.) The five varieties listed below are decided improvements on all sorts heretofore offered; of exceptional large size and good rich colors.

Gotterfunke. Large open orange-yellow flowers.

Helios. Very free flowering, pure yellow, on strong branched stems.

Leuchtkugel. One of the finest deep orange reds.

Lichtball. Large, globular orange-yellow flowers on stiff stems.

Salamander. Soft orange-colored flowers of globular form.

35 cts. each; $3.50 per doz. The set of 5 for $1.50.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

favorites that elude us season after season I would strongly recommend Una, Jersey Beauty and Evangeline. The first gives us almost a white flower about three inches across; the second, a very pale primrose yellow and the last, a charming silvery white, flushed with the same satiny rose found in sinica Anemone. All three are very large, exceptionally hardy, of strong and rampant growth, and flower very freely upon the long rods of last season's wood.—The Garden.

Willow Culture.

Uncle Sam is encouraging the growing of high grade willow rods in this country, and in the five years since the establishment of the holts at Arlington, across the Potomac from Washington, approximately a half million select cuttings have been distributed among farmers, with directions for planting and preparing for market. Particular attention is given to selecting the varieties and strains best suited to the soil where the plantings will be made.

Willlowcraft is an industry which is constantly growing in importance in this country, yet the culture of basket willow in the United States made very little progress until five or six years ago. Even now, practically all of the best grades of basket willow are imported from Europe, chiefly from France. Experiments have shown that the best grades of willow can be grown in this country at a good profit, and farmers are turning their attention to its culture more and more each year.

This year's harvest began early in March. Four approved varieties are being sent out, and only the best and most thrifty rods are selected for distribution. The management of the holts and work of free distribution of cuttings is charged to the United States Forest Service. Cuttings for experimental planting and information on management of the willow holts are furnished those who make the request of the forester at Washington.

Cuttings of new and untried basket willows were obtained from Europe a year ago and planted in the service's experimental ground. Close observations will be made upon the growth of these and if the results are favorable during the first three years, cuttings from these varieties will be distributed in the United States. In case of some varieties a much longer time may elapse before their value can be established.

Green Plants Wanted.

ED. AMERICAN FLORIST:—

Kindly suggest some ferns or foliage plants of rapid growth that would be suitable to cut for greens with cut carnations. Are there any ferns of easy culture that would grow in the soil under a high center bench? I find Asparagus plumosus of rather slow growth to give with purchases of cut flowers.

E. W.

Probably a few of the commoner ferns of the polystichum order and some of the stronger growing pterises would meet the case best. These grow freely and the only drawback with the former is they are apt to be overrun with insects. Pteris tremula is perhaps the best of all for this purpose being free in growth and keeping clean but P. serrulata and its crested forms could be grown for variety. Either of these grow strongly in such positions if not too dark.

Washington.

WEATHER HINDERS TRADE.

Trade was greatly handicapped this Easter owing to the decided decrease in temperature, and the high wind, which wrought no end of havoc with the outdoor displays. Many a good plant was ruined by exposure. The retailers as a rule take advantage of the sidewalks in order to obtain more space indoors, and also to display their stock to a better advantage. There were many novelties and artistic basket arrangements displayed which were disposed of readily, and good prices were realized for the same. Decorated plants, such as azaleas, rhododendrons and Dorothy Perkins roses, also sold well. One of the best sellers was the hydrangea, which sold from $1 to $10 each, according to size and number of blooms on a plant. It was anticipated that there would be a scarcity of lilies; such, however, was not the case, for judging by the great number of plants handled it would be safe to say that there was an over-abundance of them. They were disposed of at the usual price, 25 cents per bloom. The cool wave helped the growers to hold back their cut stock, and when it was placed on sale it was in excellent condition, and good prices were realized. About the only bulbous stock of any importance was jonquils—no others could be held for Easter.

NOTES.

Among the attractive store windows was that of Z. D. Blackistone, who showed a huge cross made up of gilded magnolia leaves. At the cross-bar was arranged loosely a spray of these leaves, and an electric lamp placed at the center of the bar illuminated the cross at night.

The feature of Geo. C. Shaffer's window was a white cross, trimmed with cattleyas. On the upright bar above the cross-bar was placed the inscription, I. N. R. I. All the other leading stores displayed made-up plant basket arrangements.

Florists' Club meeting and banquet Tuesday, April 20. G. S.

Lenox, Mass.

ROSE AND CARNATION EXHIBITION.

The annual rose and carnation night of the Horticultural Society was held in the society's rooms April 3, and was a decided success, President A. Jenkins presiding. This meeting was one of the largest and most interesting the society has held for some time, the members turning out in full force; they were amply rewarded for their trouble. Seldom, if ever, has there been seen such a magnificent display of roses and carnations in Berkshire county, and it reflects great credit upon the gardening fraternity. Two exhibits upon which special praise was bestowed was a magnificent vase of rose white Killarney, Waban variety, exhibited by F. R. Pierson Co., Tarrytown, N. Y. The flowers staged were in perfect condition, which speaks well for its shipping qualities, and were awarded a first-class certificate, the society's highest award. Another exhibit of sterling merit was a vase of 50 flowers of Bay State carnation, exhibited by the introducer, A. Roper, Tewksbury. This seems to combine all the desirable qualities of a first-class variety, the flowers being large, from 3½ to four inches, and carried on stems strong enough to support them perfectly. As a variegated variety it is so much ahead of any other as to place it in a class by itself, and it was unanimously awarded a first-class certificate. The standard varieties were shown in first-class shape. Beacon took the honors as a scarlet, while Rose Pink Enchantress, Enchantress, Winsor, Afterglow and White Perfection were equally well shown in their respective classes. The following is the list of the principal awards:

A. J. Loveless, first for 24 Enchantress, Winsor and 12 Rose Pink Enchantress, and second for 24 Beacon. A. H. Wingett, first for 24 Beacon, 12 White Perfection Enchantress and Afterglow. S. Carlquist, first for 12 Beacon, second for 12 Enchantress and White Enchantress. D. Dunn, second for 12 Beacon and Rose Pink Enchantress. A. McConnachie, third for 12 Enchantress and White Enchantress. F. Herremans, first for a mixed vase of 50; also a diploma for a fine vase of Gardenia Veitchii.

The judges were E. Jenkins, W. Jack, R. Speire and G. Breed. Sidney Witney was unanimously elected an active member of the society. E. Jenkins gave an interesting description of the recent Boston spring show, which he described as the best exhibition he had ever seen anywhere, laying particular stress on the beautiful Japanese garden arranged by R. & J. Farquhar Co., and complimenting that firm on its enterprise. After the business of the evening was disposed of refreshments were served, and after cigars had been passed, the evening was enlivened with songs and recitations by several of the members present. A most enjoyable evening was brought to a close at midnight.

G. H. I.

MARY TOLMAN

A New Light Salmon Pink Carnation.

Of a somewhat warmer tone than Enchantress, and does not fade on the edge of the petals, having a clear, even shade all over the flower, which measures from 3 to 3½-inches, although 4-inch flowers are very common. The stem is long and stiff, holding the flower perfectly erect. The calyx is very strong, and as a producer, it comes early, is very free and continuous.

Orders booked now for January 1910 delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO.

Is the new, brilliant, glistening **PINK CARNATION** shown at Indianapolis and awarded the A. C. S. Certificate of Merit, attracting the attention of every carnation grower on account of its very pleasing color, long stiff stem and well formed flowers, measuring 3 to 3 1-2 inches. The calyx is strong, and as a producer it cannot be excelled.

Orders booked now for January, 1910, delivery.

$12.00 per 100; $100.00 per 1000.

Grown and disseminated jointly.

A. C. BROWN, Springfield, Ill. CHICAGO CARNATION CO. Joliet, Ill.

CONQUEST A NEW SEEDLING CARNATION

To be disseminated next season. This is a variety that florists have been wanting ever since they discarded Prosperity.

Conquest is a light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. It does not fade, making it a most beautiful and attractive flower. Its habit is somewhat on the order of Lawson, although the stem is somewhat longer and very stiff. The flowers are well filled and nicely formed, which add to its attractiveness. Without a doubt, it will be the most attractive as well as the most profitable variety to be disseminated the coming season.

Orders booked now for January 1st, 1910 delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., JOLIET, ILL.

Carnation Cuttings and Plants

READY APRIL DELIVERY
Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ...$10.00 per 100, from sand

Mrs. J. C. Vaughan, from 2½-in. pots,.....$12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, Joliet, Ill

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

Grand Rapids, Mich.

Easter, 1909, will be long remembered. The Monday and Tuesday previous were very warm, 80° in the shade, but on Wednesday there was a drop of 50° in about 14 hours, and the remainder of the week was unseasonably cold, Friday and Saturday being below freezing, which made it necessary to take extra precautions in wrapping everything against frost. From the reports which have been gathered the volume of business done is fully one-fourth larger than that of last year. One firm reports about one-third larger, and one or two others a little short of one-fourth, but taking Easter as a whole every one seems to be well satisfied.

NOTES.

Eli Cross had a record-breaker in bulb stock. Tulips, hyacinths and daffodils were in extra demand. He had 5,000 lilies which were cleaned up in good shape. Carnations were extra good and sold at 75 cents per dozen.

Henry Smith says there was no choice; everything that was nice went at a good figure. Rambler roses and American Beauty were fine and went right, plenty to go around. A few lilies left, but nothing like last year.

Miss Madge Dolan, who has a stand in the Plantland hotel, in addition to her plant on Quimby street, says: "The best Easter I ever had. Cut flowers went much better than plants."

Alfred Hanna & Sons report a substantial increase handled much easier than last year, their new quarters being much better in every way for quick service.

Paul Gobel reports business considerably better than last year; plants sold well and he could have sold more if the weather had been warmer.

Miss Mary Hartnett says business was brisk—much better than last year, the demand being equally divided between plants and cut flowers.

Wm. Cunningham says business was entirely satisfactory, with plenty of everything and much easier to get the price than last year.

Wealthy Avenue Floral Co. says: "We are very well satisfied. Roses, carnations and lilies were the leaders."

Jas. Schols picked 30,000 violets from one house, which cleaned up in good shape, but he filled all orders.

Peter Kunst reports sales about the same as last year, with a good demand for carnations.

Bruinslot & Sons report a large shipping trade and plenty of flowers to go around. B.

FREEPORT, ILL.—Considerable glass in the greenhouses and hotbeds at the John Bauscher, Jr., place were broken in the recent gale. The wind getting under the sashes tore the frames from their fastenings and hurled them through the air. In falling they lighted on other glass, causing further damage. In glass alone, Mr. Bauscher estimates his loss in the neighborhood of $200.

CARNATIONS

Rooted Cuttings

	Per 100	1000
Mrs. J. C. Vaughan,	$12 00	$100 00
O. P. Bassett,	8 00	60 00
per 500	$35 00	
Mrs. Chas. Knopf,	12 00	100 00
Ruby,	12 00	100 00
Alvina,	12 00	100 00
Andrew Carnegie,	6 00	50 00
Afterglow,	5 00	45 00

	Per 100	1000
Enchantress,	$3 00	$25 00
Pink Imperial,	4 00	35 00
Rose Pink Enchantress	3 00	25 00
Sarah Hill,	5 00	45 00
Winona,	5 00	45 00
Winsor,	3 00	25 00
White Enchantress,	4 00	35 00
White Perfection,	3 00	25 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph Street, CHICAGO. 14 Barclay Street, NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings $3.50 per 100 — 2½-inch pots $5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

New Carnation **Lucille**

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory. Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.
Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan $12.00 per 100; $100.00 per 1000,

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,

Madison, New Jersey.

GET NEW CUSTOMERS By placing your specialties before the purchasing florists of the entire country by advertising in

Send Copy Now. **THE AMERICAN FLORIST.**

FIELD-GROWN

Rose Plants

Suitable for Easter forcing.

NEWPORT FAIRY. One-year-old, strong plants, 3 to 4 feet, 50c each; $30.00 per 100.

Julius Roehrs Company, Rutherford, N. J.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

Roses

400 sorts; 2½- and 4-in. pots.

See column adv. and prices page 564, April 10.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

Pittsburg.

The summary of the Easter business proves it to be the most satisfactory and largest for many years, the retailers cleaning up entirely. The plant trade was excellent. A little pickled stock was in evidence; some of the violets seen were very poor, good color but falling. The orchid market was very brisk, with some very fine stock in circulation. Among the down-town stores, the varied exhibit of flowering plants and artistic window displays certainly was grand, and gained the admiration of the most critical.

NOTES.

At Randolph & McClements, Penn avenue, Easter baskets of all kinds and sizes were displayed, and after seeing them one could hardly decide which was the most beautiful. At Baum and Beatty streets they had a gorgeous show.

At the east end store of H. L. Blind Bros. one could see fine plants from their West View conservatory. The skill and artistic taste was shown in the most attractive manner.

L. A. Smith, Wheeling, W. Va., is at his post again after spending four months in the hospital.

W. S. Kidd, Beaver, lost the manager of his New Brighton store, his daughter, through marriage.

James Hargreaves was recently appointed superintendent of the city park of E. Liverpool, O.

John B. Dixon, Wheeling, W. Va., bought out J. E. Foster of the same place.

Wm. Schmidt, Johnstown, got his new store in shape for his Easter trade.

J. J. Beck, New Castle, Pa., is remodeling his store.

Visitors: L. Swarthout, Washington, Pa.; B. F. Engle, Rochester; Mr. Romen of F. R. Pierson Co., Tarrytown, N. Y.; Martin Reukauf, enroute from San Francisco. J.

VAUGHAN'S LIST OF

Roses for Forcing

Crimson Rambler.

	Per doz.	Per 100
2 yrs. old, 2 to 3 ft., well branched, own roots and budded	$2 00	$12 00
3 yrs. old, 3 to 4 ft., well branched, own roots and budded	3 00	15 00
4-inch pots		10 00

Dorothy Perkins.

	Per doz.	100
Strong, dormant, 2 yrs. old	$2 00	$12 00
5-inch pots, strong	4 00	25 00

Tausendschon.

2 yr.-old, dormant, grafted plants	3 00	20 00
5-inch, pot-grown, strong	5 00	40 00
4 inch, pot-grown, strong	3 00	20 00

Lady Gay.

5-inch pots, strong	5 00	40 00
KILLARNEY, 2 yr., budded	2 50	18 00
DEBUTANTE, 2 yr.	2 00	15 00
SWEETHEART, 2 yr.	2 00	15 00
HIAWATHA, 2 yr.	3 50	25 00
LA FIAMMA, 2 yr.	2 00	15 00
TRIER, 2 yr.	2 00	15 00

Baby Rambler.

Dormant, field-grown.

	Per doz.	100	1000
1st size, selected, budded	$3 00	$20 00	$150 00
2nd size, selected, budded	2 50	16 00	135 00
3rd size, selected, budded	1 50	10 00	80 00

Pot-grown.

2½-inch	$ 75	5 00
3-inch	1 25	8 00
4-inch	2 00	12 00
5-inch	4 00	30 00

Anny Mueller.

Dormant plants, 1 yr. $10 00 per 100

White Baby Rambler.

	Each	Doz.	100
3-inch	$ 15	$1 50	$10 00
4-inch	25	2 50	20 00
1 yr., dormant stock			25 00

TREE ROSES, H. P. Varieties ..... each, 50c; per doz., $5 00; per 100, $35 00

TREE ROSE Crimson Rambler ..... each, 50c; per doz., 5 00; per 100, 40 00

TREE ROSE Baby Rambler, 1½ to 2½ ft. ..... each, 75c; per doz., 8 00

TREE ROSE Baby Rambler, 2½ to 3 ft. ..... each, $1 00; per doz., 10 00

Now is the time to buy **H. P. ROSES,** when they are fresh and well ripened.

Write us for list and prices.

Manetti Stock for Grafting.

French Stock ..... per 100, $1 50; per 1000, $10 00; 5,000 lots at $8 00 per 1000

SEASONABLE STOCK.

	Each	Doz.	100
Azalea Mollis, for Easter forcing; fine, bushy plants, full of buds	50	4 50	35 00
Prunus Triloba, pot-grown	75	8 00	

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond.
Rose pots, $15.00 per 100; 3½-in. pots $18.00 per 100.
Brides, Bridesmaids, Golden Gates, Kaiserin, La France,
Rose pots, $10.00 per 100; 3½-in. pots $15.00 per 100.

OWN ROOTS

Rhea Reid, Chatenay, Richmond, Killarney, American Beauty.
3-in. pots $9.00 per 100; 4-in. pots $12.00 per 100.
Brides, Bridesmaids, Perle, La France,
3-in. pots $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

EVANSVILLE, IND.—A 10 per cent increase, at prices about the same as last year and plenty of stock of all kinds is the report of the Blackman Floral Co. Plants of all kinds sold well and sales are increasing on these annually. The best sellers in cut flowers were carnations, roses, lilies, American Beauty roses and lily of the valley.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$7 00	$65 00
Maids, grafted	3 50	30 00
Moulton, best salmon rose	3 00	25 00

From 2 1-2 in. Pots.

	Per 100	1000
Maids	$3 00	$25 00
Brides	3 00	25 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Vaughan's Special Offer of Seasonable Stock

	Each	Doz.	100
Areca Lutescens, 4-in., 3 plants in a pot, 15-18 in. high.		$3 00	$20 00
Kentia Belmoreana, 6-in., 6 leaves, 24-26 in. high	$1 75		
" " 7-in., 6-7 leaves, 26-28 in. high	2 00		
" " 7-in., 6-7 leaves, 30-32 in. high	3 00		
Kentia Forsteriana, 6-in., 5-6 leaves, 30-32 in. high	1 50		
" " 5-in., 5-6 leaves, 34-36 in. high	2 00		
" " 7-in., 5-6 leaves, 36-40 in. high	3 00		

	Each	Doz.	100
Latania Borbonica, 3-in., 3-4 leaves, 12-14 in. high		$1 00	$ 8 00
" 4-in., 4-5 leaves, 14-16 in. high		2 50	20 00
Phoenix Roebeleni, 4-in	$ 75	8 00	
Pandanus Utilis, 5-in., 15-18 in. high	50	4 00	
Ficus Elastica, 5-in., 18-20 in. high		35	4 00
" 6-in., 24-28 in. high		60	6 00
Genistas, 5-in., bushy plants in bud and bloom		40	4 00
Spirea Queen Alexandra and Peach Blossom, in bud.		75	8 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 14 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill. **Book for Florists, Spring Edition, Now Ready.**

Syracuse, N. Y.

If the weather conditions had been favorable the Easter business in the flower trade would have been the greatest in its history. Cold and unfavorable weather proved detrimental to trade and made the business hard to manage. The greatest demand was for pot plants, although some cut flowers were sold. The question of delivering was a perplexing one. Every available baggage wagon was pressed into service on Saturday night, and many orders were not filled until Sunday morning. In addition to the firm's own wagons and baggage wagons hired from the liveries, P. R. Quinlan & Co. had a large automobile covered truck from the Oldsmobile agency, with the firm's name on a banner on either side of the machine.

A. V. B.

Cleveland.

A BUSY WEEK.

The past week was a busy one, and it certainly has proved a banner year despite the weather conditions, which were bad up to Saturday afternoon. At the time of our last writing it was blowing a blizzard, regular Christmas weather, and the same thing was repeated Thursday, Friday and Saturday morning, but in the face of all this everything sold up pretty clean daily, Easter lilies being especially scarce at any price the latter part of the week. Violets, although not as good in quality as they generally are, were scarce and sold at good prices. Carnations and roses brought top-notch prices, and the quality was never better. Richmond roses were scarce. Sweet peas had an excellent run, as did all other stock. There was little doing on the street this week, as the prices were too high for the fakirs, and the stock too good for that class of trade. From all reports this has been a big year, and the florists and greenhouse men who worked nearly all year for this day were well repaid for their labor.

At the Sheriff street market house the growers outdid themselves on Saturday, this being the occasion of their annual flower show. The booths were stocked 15-20 feet high with azaleas, ramblers, hyacinths, tulips, lilies and all the various kinds of Easter and spring plants, until there was scarcely room to move, and the crowds that attended the sale were a sight for florists' eyes, although in the morning the faces of the already tired florists showed signs of disgust at the prospects for the day's outlook, besides their look of weariness, but when it did eventually clear up, the rush and scramble to get plants and flowers fully repaid them for their morning's anxiety. The music and flowers drew immense crowds that thronged the aisles and balconies of this large and well-planned market, testifying better than words can say the appreciation of the general public for this yearly treat. Three prizes were awarded to the best displays and were divided as follows: G. M. Nauman, first; Sam Pentecost, second; Casper Aul, third. To the writer's eyes the judges certainly had a hard proposition, as several other displays were entitled to much praise.

NOTES.

At the downtown retail stores the window displays were grand. Smith & Fetters' window, which is always good, was even better than the previous week. Many were the compliments the artist received. At Gasser's, Wagner's and Eadie's, all of whom had grand displays, the crowds that stopped to look and buy, showed their skill and efforts were not wasted, and their sales also showed the selling power of a good window display.

When making a delivery at the Westman & Getz' store, 5923 Euclid avenue, about 6 p. m. Saturday, the delivery man from The Florists' Exchange found the door locked, and the proprietors and force of clerks were eating a lunch in the rear of their store. Everything had been sold, and enough work to fill orders to keep them busy all night and possibly next day, and this at 6 p. m. It certainly speaks well for their business ability.

C. F. B.

YOUNG ROSES

2½-inch

Positively the Last Call for the Season.

These Prices Are Made to Sell This Stock Lively

And we can tell you right now that if you wish any of it you will need to get your order here Double Quick—as there are a whole lot of people in the business who know a snap when they see it.

THESE PRICES ARE POSITIVELY SPOT CASH.

The thousand price will not apply unless you get a full thousand.

The following at $2.00 per 100; $17.00 per 1000: Baby Rambler, Beauty of Glazenwood, Climbing Marie Guillot, Crimson Rambler, Dorothy Perkins, Eli Beauvillian, Glorie des Rosamones (Ragged Robin), Homer, Jas. Sprunt, Laurette, Phil. Cochet, Queen of Prairie, R. O. Wurtemburg, Vick's Caprice, White Banksia, Yellow Banksia.

The following at $2.25 per 100; $20.00 per 1000: Aug. Guinoiseau (White La France), Bride, Bridesmaid, C. Mermet, Clara Watson, Climbing Bridesmaid, Climbing Cecil Brunner Fr. Kruger, Helen Gould, La Detroit, Marquie de Querhoent, Muriel Graham, R.M.Henriette, Reve d' Or.

The following at $2.50 per 100; $22.00 per 1000: Capt. Christy, Cherokee Climbing Mme. Car. Testout, Climbing Wooton, Duch. de Brabant, **Etoile de France, Etoile de Lyon,** Gainsboro, Gen. Jacqueminot, Glorie de Margottin, Gruss an Teplitz, Helena Gambier, Ivory, Jubilee, Lamarque, Mme. Abel Chatenay, Mme. Wagram, Magna Charta, Maman Cochet, Mar. Niel, Paul Neyron, P. C. de Rohan, Climbing Meteor, Safrano, Vis. Folkstone

6,000 very fine **Frau Karl Druschki,** $4.00 per 100; 5c each less than 100.

Ulrich Brunner, $4.00 per 100; $35.00 per 1000. Killarney, $4.00 per 100.

CALIFORNIA ROSE COMPANY, Pomona, Calif.

GRAFTED ROSES

On Selected Manetti.

Clean, healthy wood. Grown especially for grafting.

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,

$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100.

Rhea Reid, $15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

JACKSON & PERKINS CO., Newark, New York.

Lancaster, Pa.

"All is well in Carnation town" so say the growers, and surely they know whereof they speak. That there is a brighter feeling abroad is evidenced by the fact of the heavy shipments made to both the Philadelphia and the Pittsburg markets and the good returns for the product. The weather, too, is ideal if 72° early in April is desirable.

H. D. Rohrer has remodeled his greenhouse range throughout. One section has been rebuilt during the past summer. Mr. Rohrer's carnations, which constitute his specialty, are invariably of a high grade and command the best market prices at all times. The Enchantress trio are his favorites and well they deserve the space given them. Beacon, in Mr. Rohrer's estimation, is the only red worthy of consideration, although Victory and Robt. Craig are likewise to be seen on his place, both looking well. White Perfection is in a class by itself as grown here.

B. F. Barr & Co. have moved into their new store on Duke street, the counterpart of State street or Broadway in this city. It is a model and up-to-date store, handsomely furnished and splendidly equipped to draw trade. They still retain their old store on W. King street. With a general stock that it would be hard to surpass and that spells dollars at sight, Mr. Barr has ample reasons for joining the ever widening circle of optimists.

Albert M. Herr, who divides both his attention and his greenhouse space between carnations and geraniums, reports an unusually heavy demand for the latter. His facilities, however, enable him to keep up with the demand up to the present. It is his intention to double his output next season and to confine himself to three or four of the best and the most desirable standard varieties. His carnations never looked better.

H. H. Girvin of Paradise has his place in the pink of condition and his stock never looked better. The Enchantress, in his estimation, will hold out for at least another generation. "Talk about this variety running out! Whoever says that simply does not know how to handle a carnation and that is all there is to it." The scribe did not contradict the assertion.

W. B. Gervin of Leola considers Winsor the best ever. So well does that variety behave for him, that 10,000 will be the quantity planted next season on his place. Enchantress, both light pink and white, White Perfection, Beacon, Robt. Craig and O. P. Bassett, will make up the rest of the varieties to be planted.

E. P. Hostetter of Manheim has a large crop in sight for Easter. He has been cutting heavily all along. Besides carnations he grows antirrhinums and finds a good sale for them in the Pittsburg market. Mr. Hostetter's general stock, as usual, is in splendid condition.

Elmer J. Weaver of Ronks finds a brisk demand for all the carnations he ships to the Philadelphia market. Mr. Weaver contemplates making a few alterations and possibly an addition to his already extensive place. S.

CALUMET, MICH.—A. E. Lutey, who has, as recently noted, sold out his business here and in Houghton, will leave shortly for Seattle, Wash., where he intends to locate.

ATLANTIC, IA.—Business at the Atlantic Greenhouse Co.'s is in splendid shape and the manager, Chas. Olson, is justly proud of the great advance made since he took charge.

STERLING, COLO.—D. E. Smith, owner of the greenhouses on the Atwood road has purchased additional land around them and is going in largely for vegetables and vegetable plant growing inside and out. He is also going to build more glass for cut flower and plant growing.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns, Boston 3-in. pots, $4.00 per 100.
Asparagus Sprengeri, 2-in. pots, $2.00 per 100.
Cannas, King Humbert and Mt. Blanc, 3 in. pots, $5.00 per 100.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Chrysanthemums, the best three early varieties: White Cloud Pacific Supreme, Golden Glow, 2½-in pots $5.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
ROOTED CUTTINGS from soil. $1.00 per 100: Heliotrope (blue and white), Fuchsias (4 varieties), Cupheas, Petunias (double white), Vinca Variegata, Feverfew (Little Gem). Coleus (Verschaffeltii and Golden Bedder). Alternantheras, 4 varieties, 50c per 100, from sand.
Carnations. R. C., from soil, $2.00 per 100—Pink: Enchantress. Dorothy; scarlet: Robt. Craig. Elbon; white: Flora Hill. B. Market.—Winsor $3.00 per 100.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2.50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-in., $2.00 per 100. 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Coleus, red and yellow $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia), Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas.** Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newport, N. J.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors, extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud..... 1.00
Strong plants bloom in April.....Per 1000, $5.00
Smaller size plants .....Per 1000, 4.00
Small plants, by mail 75c per 100 **Seed,** $1.00
□ per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**
Grower of the Finest Pansies.

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.
ALBERT M. HERR, Lancaster, Pa.

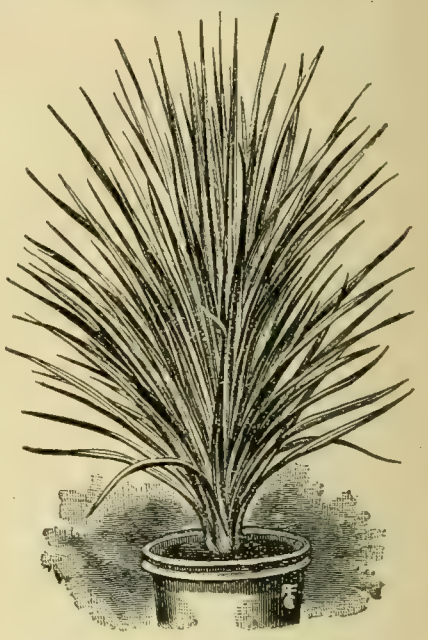
Alternantheras

Strong, well rooted cuttings—the kind that will please you. Per 100 1000
P. Major (red) 50c $4.00
A. Nana (yellow).....50c 4.00
Brilliantissima (best red).....60c 5.00

J. W. DAVIS,
225 W. 16th St., DAVENPORT, IOWA

Easter Lilies in Pots

Write for Prices.



Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

	Per doz.	Per 100
3-inch	$ .75	$ 6.00
4-inch	1.50	12.00
7-inch	7.00	

You can recommend these plants: first-class value for the money. If you don't want them shipped at once, we will reserve them until any date you name, only send in your order today.

Adiantum Cuneatum Robecki, strong stock, 3½-inch pots, $8.00 per 100; 4-inch pots, $12.00 per 100.

Send for complete wholesale price list of Palms and Ferns.

The Geo. Wittbold Co.,

1657 Buckingham Place, CHICAGO.

Moonvines

(Ipomoea Multiflora.)

Best white Moonvine, for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

GODFREY ASCHMANN

Importer, Wholesale Grower and Shipper of Pot Plants,

1012 W. Ontario St., PHILADELPHIA, PA.

Pelargoniums..

Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100; $8.00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5.00 per 1000. All rooted cuttings.

Express prepaid on rooted cuttings. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

NOW READY

The American Florist Company's

Trade Directory

For 1909

Contains 548 Pages. **Price $3.00 Postpaid.**

THE AMERICAN FLORIST COMPANY'S Trade Directory for 1909, fully revised to date, with thousands of new names and changes of address, is now ready for distribution. It contains 548 pages, including complete lists of the Florists, Seedsmen and Nurserymen of the United States, Canada, Central and South America arranged both by states and towns and all names alphabetically. Also lists of Foreign Merchants, Firms Which Issue Catalogues, Horticultural Supply Concerns, Parks, Cemeteries, Landscape Architects, Experiment Station Horticulturists, Botanical Gardens, Seed Growers, and much other conveniently indexed and invaluable trade information.

PUBLISHED BY THE

American Florist Co.

324 Dearborn St., Chicago.

HEADQUARTERS FOR

ARAUCARIAS

"By jingo," was the remark of a bright looking gentleman, as he stepped with his lady friend into one of our Araucaria houses. "If these are not the best shaped and finest looking specimens of **Araucaria Robusta Compacta, Glauca** and **Excelsa** I have ever seen, *then I am a shade.* ☞ Just look! What a sight this time of the year, one as nice as the other!"

Araucaria Robusta Compacta, Glauca and **Excelsa.** Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century, that our name, as well as the Araucaria itself, shall never die out, and is still fresh in people's minds, same as when we first started. Why the Araucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen. As big as an elephant, for 75c; as big as a jumbo for $1.00; and as big as a holy terror, for $1.25 to $1.50.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high, same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50 $1.75, $2.00, $2.50 to $3.00 each,

Araucaria Excelsa, 3-4-5 year old 4-5-6-7 tiers 6-in. pots, 20-25-30-35 in. high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

GODFREY ASCHMANN
Importer Wholesale Grower
and Shipper of Pot Plants.
1012 W. Ontario St., **PHILADELPHIA, PA.**

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.
We sell only first-class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

Orange, N. J.

The regular monthly meeting of the New Jersey Floricultural Society was held April 9 in the clubrooms. Chas. H. Totty addressed the gathering upon the chrysanthemum. He confined himself in the body of his paper to the history of the flower and its commercial development and left the cultural side to be brought out in the discussion which followed. The subject as handled by Mr. Totty was full of interest in both departments. Mr. Totty in forecasting a further development of the flower in the next 35 years, announced that he has several surprises himself for future dissemination. A letter from Daniel MacRorie upon the scenery and flora of the Pacific coast where he has established himself as a wholesale dealer and importer of orchids, etc., was read. The usual display of the season's flowers filled the tables. Andrew Greer was elected a member.

Arthur T. Caparn, for a number of years in charge of the estate of Stewart Hartshorne at Short Hills, has resigned to go into business for himself and has been succeeded by Wm. Hyland.

S. Wyatt has succeeded John J. Dervan at A. C. Van Gaasbek's.

J. B. D.

HACKENSACK, N. J.—H. S. Mabie has opened a new store at 148 Main street under the name of the Ideal Store.

GERANIUMS

We have an immense stock of fine plants from 2-in. pots at $2.00 per 100, $18.50 per 1000 and up. We will send 1000, 50 each of of 20 good sorts, our selection, for $18.50 cash, or we will send 1000 from 3-in. pots in good assortment for $3.00 per 100; $25.00 per 1000.

	Per 100 2-in.	3-in.
AGERATUM, 5 kinds	$2 00	$3 00
ALYSSUM, Dwarf and Giant	2 00	
CENTAUREA, Gymnocarpa	2 00	3 00
ACHRYANTHES, Emersoni and Mosaica	2 00	3 00
CINERARIA, Maritima	2 00	3 00
HARDY ENGLISH IVY,	2 00	
PARLOR IVY, Senecio Scandens	2 00	
LOBELIA, Kathleen Mallard	2 00	3 00
LOBELIA, Crystal Palace Gem	1 50	
PETUNIAS, Dreer's Single Superb	2 00	
SAXIFRAGA, Sarmentosa	3 00	

	Per 100 2-in.	3-in.
SALVIA, Bonfire	$2 00	$3 00
SALVIA, Zurich	3 00	4 00
SMILAX, Extra strong	2 00	
VERBENAS, Red White, Pink and Blue	2 00	
COLEUS, Verschaffeltii, Golden Bedder, Queen Victoria, Eldorado	2 00	
TRADESCANTIA, Dark variegated	2 00	
HARDY POMPON CHRYSANTHEMUMS, 75 varieties	2 00	

Write for prices on large lots. We will make interesting special prices for cash.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

Fresh Stock, Guaranteed True Type.

ORCHIDS

No Greenhouses. Direct to You.

JUST ARRIVED.

100 cases **Cattleya Trianae** in perfect condition. If potted now, **will flower this season.** Order at once.

Dendrobium Nobile, Wardianum and **Thyrsiflorum** in two weeks. Splendid specimens if desired.

Cattleyas in all varieties. **Miltonia Vexillaria** now.

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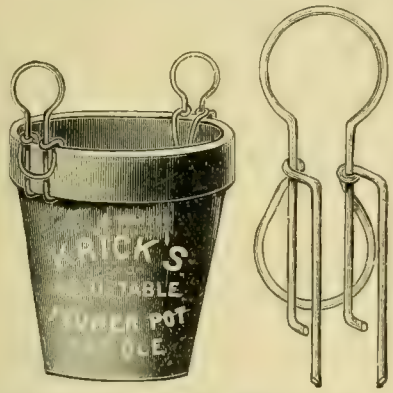

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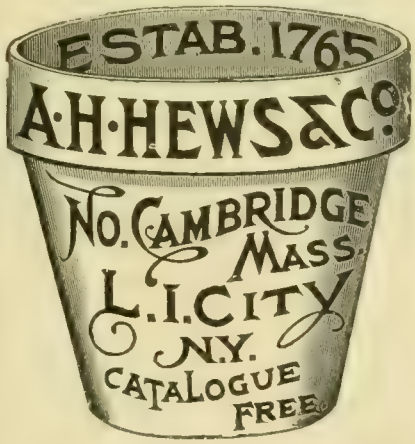

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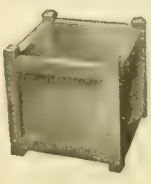

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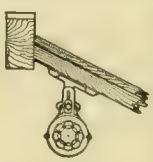

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German iris, 3 named varieties, $2.50 per 100; $20 per 1,000. O. B. Stevens, Shenandoah, Iowa.

Iris, Japan, fine clumps. J. M. Thorburn & Co., 33 Barclay St., New York.

Iris. E. S. Miller, Wading River, L. I. N. Y.

IVIES.

Ivy, hardy English and parlor ivy, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Ivy, English, R. C., 75c. J. H. Dann & Son, Westfield, N. Y.

English ivy, 2-in., $2.50 per 100. The Wallace Hornaday Co., Lawton, Okla.

Ivy, hardy English, 3-in., $5 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

LILACS.

Lilacs. Jacs Smits, Ltd., Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., $2; 3-in., $3 per 100; Crystal Palace Gem, 2-in., $1.50. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Kathleen Mallard, double from 2-in. pots, 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

MOONVINES.

Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Sphagnum. Both quality and quantity, bag or barrel. $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

MUSHROOM SPAWN.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., New York.

Mushroom spawn. Lambert's Pure Culture. American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, roses, rhododendrons, hydrangeas, conifers, herbaceous and bulbous stock. Wm. Elliott & Sons, 45 Vesey St., New York.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Berberis Thunbergii, seedlings, 5 to 7 ins., $1.50 per 100; $12 per 1,000; transplanted, 8 to 12 ins., $2.50 per 100; $20 per 1,000. E. Y. Teas Co., Centerville, Ind.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock. Storrs & Harrison, Painesville, O.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock. W. Van Kleef & Sons, Boskoop, Holland.

Nursery stock, fruit and shade trees, shrubs, evergreens. W. & T. Smith Co., Geneva, N. Y.

ORCHIDS.

Orchids, just unpacked, Oncidium varicosum Rogersii, O. splendidum, O. crispum, O. Forbesii, O. sarcodes, O. Wentworthianum, O. grande, Miltonia candida, M. spectabilis, M. flavescens, Lycaste Skinneri, Scuticaria Steelii, Zygopetalum, crinitum, Z. Gautieri, Cattleya Warnerii Phalænopsis amabilis, P. Schilleriana, Vanda Sanderiana. To arrive in few days: Cattleya Trianæ, C. labiata, Odontoglossum crispum, Dendrobium formosum, D. nobile, D. Thyrsiflorum, Vanda cærulla, Cattleya Percivaliana, Lager & Hurrell, Summit, N. J.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids, Cattleya Trianæ, Dendrobium nobile, Wardianum and Thrysiflorum, cattleyas in all varieties. G. L. Freeman, 388 Appleton St., Holyoke, Mass.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

PALMS.

Palms. Washingtonia, robusta, Chamaerops excelsa and humilis and Phoenix Canariensis, 3-in. pots, $4.00 per 100; $30.00 per 1,000. Robusta, field-grown, 1 to 2 ft., $15.00 per 100. Enonymus Japonicus and grevillea, 3 and 4-in. pots, $4.00 per 100; $30.00 per 1,000. Dracæna indivisa, 4-in. pots, 14 to 18 in., $3.50 per 100; $30.00 per 1,000; transplanted, 1-year-old, 12 to 15 in., $1.50 per 100; $5 per 1,000. Acacia melanoxylon and floribunda, 3-in. pots, 14 to 18 in., $4.50 per 100; $30 per 1,000. F. O. B. Cash. Los Medanos Nursery Cornwall, Calif.

Palms, Areca lutescens, 4-in., 3 plts. in pot, 15-18 ins. high, $3 per doz.; $20 per 100. Kentia Bel., 6-in., 6 lvs., 24-26 ins., $1.75 each; 7-in., 6-7 lvs., 26-28 ins., $2; 7-in., 6-7 lvs., 30-32 ins., $3. Kentia Fors., 6-in., 5-6 lvs., 30-32 ins., $1.50; 6-in., 5-6 lvs., 34-36 ins., $2; 7-in., 5-6 lvs., 36-40 ins., $3. Latania Borb., 3-in., 3-4 lvs., 12-14 ins., $1 per doz.; $8 per 100; 4-in., 4-5 lvs., 14-16 ins., $2.50 per doz., $20 per 100. Phœnix Rœbeleni, 4-in., 75c each; $8 per doz. Vaughan's Seed Store, Chicago and New York.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 ins., $5. Made-up Kentia Fors., 7-in., 34 to 36 ins., $2.50 each; 7-in., 36 to 38 ins., $3; 9-in. tub, 42 to 48 in., $5. Joseph Heacock Co., Wyncote, Pa.

Cycas stems, case lots of 300 lbs., $19.50 per case. Yokohama Nursery Co., 31 Barclay St., New York.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

PANSIES.

Pansies, Jenning's strain, 1st size in bud and bloom, $1.25 per 100; 2nd size, bud and bloom, $1 per 100; strong plants bloom in April, $5 per 1,000; smaller size, $4; seeds, $1 per pkg.; 4,000 seeds, $4 per oz. E. B. Jennings, box 254, Southport, Conn.

Giant pansy plants, stocky, from fall sown seed, 50c per 100, prepaid; 1,000, not prepaid, $3.50. Chas. Frost, Kenilworth, N. J.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

PANDANUS.

Pandanus utilis, 5-in., 15-18 ins., 50c each; $4 per doz. Vaughan's Seed Store, Chicago and New York.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

If you do not find what you need in our Ready Reference Department, write us about it.

PEONIES.

Peonies, distinct named kinds and colors; strong roots, $1 per doz.; $8 per 100. F. A. Baller, Bloomington, Ill.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

PETUNIAS.

Petunias, Dreer's single superb, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., $3 per 100. Jos. H. Cunningham, Delaware, O.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

PRIVET.

AMURENSE, AMOOR RIVER PRIVET—35,000 6 to 20 ins., for transplanting at $10 per 1,000; 10 per cent off for 5,000 or over; 25,000, 12 to 18 ins. at $12 per 1,000; 20,000, 18 to 24 ins. at $15 per 1,000; 12,000, 24 to 30 ins., $20 per 1,000; 30 to 36 ins., at $25 per 1,000. CALIFORNIA PRIVET, transplanting grade, 50,000 at $6 per 1,000, 10 per cent off for 5,000 or over; 30,000, 12 to 18 ins., at $10 per 1,000. All the above is number one stock, ready for immediate shipment. Delivered f. o. b. Cash with order. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

Choice selected C. PRIVET Cuttings, $1.50 per 1,000; $5 for 4,000; $10 for 10,000. Cash with order, packing free. Large privet for screens, 8 ft. high, $10 per 100. Atlantic Coast Nurseries, Asbury Park, N. J.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

Privet, dwarf Chinese, 3 to 4 ft., $15 per 100. Vaughan's Seed Store, Box V., Chicago.

RHODODENDRONS.

Rhododendrons. Parson's hardy vars., 8 to 12 buds, 18 to 24 ins., $75 per 100; 12 to 14, 24 to 30 ins., $100 per 100. Storrs & Harrison Co., Painesville, O.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROOTED CUTTINGS.

Rooted cuttings from soil, $1 per 100; Heliotrope, fuchsias, 4 vars.; cupheas, petunias, dbl. white; Vinca Var., feverfew, Little Gem; Coleus, Vers. and Golden Bedder; alternantheras, 4 vars., 50c per 100 from sand. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

ROSES.

Roses for forcing: Crimson Rambler, 2-yr., 2 to 3 ft., own roots and budded, $2 per doz.; $12 per 100; 3-yr., 3 to 4 ft., own roots and budded, $3 per doz.; $15 per 100; 4-in., pots, $10 per 100. Dorothy Perkins: Dormant, 2-yr., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $25 per 100. Tausendschon, 2-yr., dormant, grafted, $3 per doz.; $20 per 100; 5-in., pot-grown, $5 per doz.; $40 per 100; 4-in., $3 per doz.; $20 per 100. Lady Gay, 2-yr., dormant, $3 per doz.; $20 per 100; 5-in., pots, $5 per doz.; $40 per 100. Debutante, $2 per doz.; $15 per 100. Sweetheart, $2 per doz.; $15 per 100. Hiawatha, $3.50 per doz.; $25 per 100. La Fiamma, $2 per doz.; $15 per 100. Trier, $2 per doz.; $15 per 100. Baby Rambler, dormant, field-grown, 1st size, budded, $3 per doz.; $20 per 100; $150 per 1,000; 2nd size, budded, $2.50 per doz.; $16 per 100; $135 per 1,000; 3rd size, $1.50 per doz.; $10 per 100; $90 per 1,000; pot-grown, 2½-in., 75c per doz.; $5 per 100; 3-in., $1.25 per doz.; $8 per 100; 4-in., $2 per doz.; $12 per 100; 5-in., $4 per doz.; $30 per 100. Anny Mueller, dormant, 1 yr., $10 per 100. White Baby Rambler, 3-in., 15c each; 4-in., 25c each; $2.50 per doz.; $20 per 100; 1-yr., dormant, $25 per 100. Tree roses, H. P. Vars., 50c each; $5 per doz.; $35 per 100. Tree roses, Crimson Rambler, 50c each; $5 per doz.; $40 per 100. Tree Baby Rambler, 1½ to 2½ ft., 75c each; $8 per doz.; 2½ to 3 ft., $1 each; $10 per doz. Killarney, 2-yr., budded, $2.50 per doz.; $18.50 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, 400 sorts, 2½ and 4-in., for prices and varieties, see adv. page 564, April 10 issue. Leedle Floral Co., Springfield, O.

Roses, 2½-in., $2 per 100; $17 per 1,000: Baby Rambler, Beauty of Glazenwood, Clbg. Marie Guillot, Crimson Rambler, D. Perkins, Eli Beauvillian, Glorie des Rosamones, (Ragged Robin), Homer, Jas. Sprunt, Laurette, Phil. Cochet, Queen of Prairie, R. O. Wurtenburg, Vick's Caprice, White Banksia, Yellow Banksia. Following, $2.25 per 100; $20 per 1,000: White La France, Bride, Maid, Mermet, Clbg. Cecil Brunner, Fr. Kruger, Helen Gould, La Detroit, Marquie de Querhoent, Muriel, Graham, R. M. Henrietta, Reve d'Or. Following, $2.50 per 100; $22 per 1,000: Capt. Christy, Cherokee, Clbg. Mme. Testout, Wootton, Duch. de Brabant, Etoile de France, Etoile de Lyon, Gainsboro, Gen. Jacq., Glorie de Margottin, Gruss an Teplitz, Helena Gambier, Ivory, Jubilee, Lamarque, Mme. Chatenay, Mme. Wagram, Magna Charta, Maman Cochet, Mar. Niel, Paul Neyron, P. C. de Rohan, C. Meteor, Safrano, Vis Folkstone, 6,000 Frau Karl Druschki, $4 per 100. U. Brunner, $4 per 100; $35 per 1,000. Killarney, $4 per 100. California Rose Co., Pomona, Calif.

ROSES. American Beauty, 2 or 2½-in., $7 per 100; $65 per 1,000; 3 or 3½-in., $9 per 100; $85 per 1,000. My Maryland, grafted strong stock, 3 or 3½-in., $20 per 100. My Maryland, own roots, 3 or 3½-in., $12 per 100. Killarney, own roots, 2 or 2½-in., $6 per 100; $55 per 1,000; 3 or 3½-in., $7.50 per 100. Bridesmaid, Bride, Richmond, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Mrs. Potter Palmer, 2 or 2½-in. $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Perle, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Kaiserin, 2 or 2½-in., $5 per 100; $45 per 1,000; 3 or 3½-in., $6.50 per 100. Uncle John, 2 or 2½-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

GRAFTED AND OWN ROOT ROSES.

Grafted 2½-in. pots.	Per 100	Per 1,000
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

ROSE PLANTS.

2½-INCH STOCK.

	Per 100.	Per 1,000
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
K. Moulton	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Killarney	5.00	45.00
Kaiserin	4.00	35.00

WIETOR BROS.,

51 Wabash Avenue, Chicago, Ill.

Roses, dormant, field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, 1-year bench plants, Am. Beauty, $7 per 100; $65 per 1,000. Maid, grafted, $3.50 per 100; $30 per 1,000. Moulton, $3 per 100; $25 per 1,000. From 2½-in.: Maid, Bride, $3 per 100; $25 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Roses, hybrid perpetual, dormant field-grown, $11 per 100; $100 per 1,000. Moss, field-grown, $12 per 100. Hardy climbing, field-grown, $8 per 100. Tree roses, 4 to 5 ft., $30 per 100. Storrs & Harrison Co., Painesville, O.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, Richmond, Bride, Bridesmaid, 2-in., $2.50 per 100; $20 per 1,000; 2½-in., $3 per 100; $25 per 1,000; 3-in., $4 per 100; $35 per 1,000. E. B. Sage, Red Rock, McKean Co., Pa.

Roses, 2,500 2 to 2½-inch Richmonds, fine stock, $25 per 1,000. Sinner Bros., 60 Wabash Ave., Chicago.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses. Ask for our catalogue and get your rose lists priced. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Roses, Bride, Richmond, Killarney, 2½-in., own roots. Thorn Hedge Greenhouses, Newtown Square, Pa.

Roses, Crimson Rambler, Trier, Dorothy Perkins, Lady Gay, $3 per 100; $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, dwarf, climbing, tree and Ramblers. Bobbink & Atkins, Rutherford, N. J.

Roses. Chas. H. Totty, Madison, N. J.

Roses. 3-in. Wood Bros., Fishkill, N. Y.

SALVIAS.

Zurich, type selected for 2 years, R. C., $1 per 100; $9 per 1,000; 2-in., 2½c. Bonfire and Lord Fauntleroy, R. C., 1c; 2-in., 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Salvia Bonfire, 2-in., $2; 3-in., $3 per 100. Zurich, 2-in., $3; 3-in., $4 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia splendens, Bonfire, R. C., 90c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

SEEDS.

Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis, Hambergia, pkt., 25c; Barnard's Perpetual, White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi., 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg, Pa.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. Henry Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. O. V. Zangen, Hoboken, N. J.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds of all kinds. Stokes' Seed Store, 219 Market St., Philadelphia.

If you do not find what you need in our Ready Reference Department, write us about it.

Seeds, Asparagus plumosus, 1,000 seeds, $2; 6,000, $10; 13,000 $20; 25,000, $35; 50,000, $62.50. F. Gilman Taylor, 630 H. W. Hellman Bldg., Los Angeles, Calif.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton C. Zvolanek, Boundbrook, N. J.

Seeds. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seed, Asparagus plumosus, $2 per 1,000. Jos. H. Cunningham, Delaware, O.

Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, garden peas and beans. Rogers Bros., Alpena, Mich.

Seed, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SMILAX.

Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spirea, Queen Alexandra and Peach Blossom, in bud, 75c each; $8 per doz. Vaughan's Seed Store, Chicago and New York.

Spireas. Jac. Smits, Ltd., Naarden, Holland.

STEVIA.

Stevia, 2-in., 90c per 100. S. V. Smith, 3323 Goodman St., Philadelphia.

Stevia, fine 2-in., at $2.50 per 100. The Wallace Hornaday Co., Lawton, Okla.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

VEGETABLE PLANTS.

Vegetable plants, cabbage: Wakefield, Succession, $1.50 per 1,000. Egg plant: N. Y. Improved Black Beauty, 40c per 100; $3 per 1,000. Peppers: Bull Nose, Ruby King, Sweet Mountain, 40c per 100; $3 per 1,000; Chinese Giant and Cayenne, 50c per 100. Tomatoes: Earliana, Chalk's Jewel, Early June Pink, 30c per 100; $2 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, red, white, pink, blue, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Lemon Verbenas, R. C., 75c per 100 prepaid. Chas. Frost, Kenilworth, N. J.

Verbenas, $2 per 100. Jos. H. Cunningham, Delaware, O.

VINCAS.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vinca variegata, 2-in., $2. J. H. Dann & Son, Westfield, N. Y.

Vincas, var., 2¼-in., $2.50 per 100. Jos. H. Cunningham, Delaware, O.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 300 for $5; 2½-in., J. C. Schmidt, Bristol, Pa.

VIOLETS.

Violets, Baronne Rothschild, the freest, most fragrant and best paying single violet, R. C., $10 per 100. Chas. H. Totty, Madison, N. J.

Violet Blue rose. Ellwanger & Barry, Box Q, Rochester, N. Y.

Violets. Wood Bros., Fishkill, N. Y.

STOCK WANTED.

Stock wanted: Gladiolus May, Mme. Monneret, Augusta, Princeps, America and Gandavensis mixed to color. Van Meerbeek & Co., Hillegom, Holland.

WHOLESALE CUT FLOWERS.

Commission Dealers.

Abrahamson, Wm. W., 21 Wabash Ave., Chicago.
Amling, E. C., 32-36 Randolph St., Chicago.
Berning, H. G., 1402 Pine St., St. Louis.
Deamud, J. B. Co., 51 Wabash Ave., Chicago.
Ford Bros., 48 W. 28th St., New York.
Froment, Horace E., 57 W. 28th St., N. Y.
Growers' Cut Flower Co., 39 W. 28th St., N. Y.
Guttman, Alex. J., 34 W. 28th St., New York.
Henshaw & Fenrich, 44 West 28th St., N. Y.
Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.
Hunt, E. H., 76 Wabash Ave., Chicago.
Kennicott Bros. Co., 48-50 Wabash, Chicago.
Kessler Bros., 50 W. 28th St., New York.
Keuhn, C. A., 1122 Pine St., St. Louis.
Krueger Bros., Toledo, O.
Langjahr, Alfred H., 55 W. 28th St., N. Y.
McCallum Co., 937 Liberty Ave., Pittsburg, Pa.
McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.
McKellar, Chas. W., 51 Wabash Ave., Chicago.
McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.
Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.
Millang Bros., 41 W. 28th St., New York.
Chas. Millang, 444 6th Ave., cor. 27th St., New York.
Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.
Murphy, Wm., 311 Main St., Cincinnati, O.
Niessen Co., Leo, 1208 Arch St., Philadelphia.
N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.
Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.
Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.
Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.
Pollworth, C. C. Co., Milwaukee, Wis.
Randall, A. L. Co., 19 Randolph St., Chicago.
Raynor, John I., 49 W. 28th St., New York.
Rice Bros., 128 N. 6th St., Minneapolis, Minn.
Riessen Floral Co., 21 S. Broadway, St. Louis.
Robinson, Henry M. & Co., 11-15 Province St., Boston.
Schreiner, Nicholas C., 41 W. 28th St., N. Y.
Seligman, John, 56 W. 26th St., New York.
Sheridan, Walter F., 39 W. 28th St., N. Y.
Smith & Co., W. C., 1316 Pine St., St. Louis.
Traendly & Schenck, 44 W. 28th St., N. Y.
Vaughan & Sperry, 58-60 Wabash Ave., Chicago.
Welch Bros., 226 Devonshire St., Boston.
Winterson, E. F. Co., 45-49 Wabash, Chicago.
Young, A. L. & Co., 54 W. 28th St., N. Y.
Young, John, 51 W. 28th St., N. Y.
Young, C. & Sons, 1406 Olive St., St. Louis.
Young & Nugent, 42 W. 28th St., New York.
Zech & Mann, 51 Wabash Ave., Chicago.

Growers.

Bassett & Washburn, 76-78 Wabash, Chicago.
Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.
Bruns, H. N., 1409-11 W. Madison, Chicago.
Budlong, J. A., 37-39 Randolph St., Chicago.
Elliott, W. H., Brighton, Mass.
Hill, The E. G. Co., Richmond, Ind.
Jensen & Dekema, 674 W. Foster Ave. Chicago.
Peacock Dahlia Farms, Atco, N. J.
Poehlmann Bros. Co., 35-37 Randolph, Chicago.
Reinberg, Peter, 35 Randolph St. Chicago.
State Nursery Co, Helena, Mont.
Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.
Weiland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

RETAIL CUT FLOWERS.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Anderson, S. C.—The Anderson Floral Co., 533 Marshall Ave.
Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.
Baltimore, Md.—Z. D. Blackistone, 1601 Eutaw Pl.
Boston, Mass.—Hoffman, florist, 59 Massachusetts Ave.
Boston, Mass.—Frank H. Houghton, 396 Boylston St.
Brooklyn, N. Y.—Robt. G. Wilson, Fulton St. and Green Ave.
Buffalo, N. Y.—Palmer's.
Chicago—Hauswirth, Florist, Auditorium Annex.
Chicago—Wittbold, Florist, 1657 Buckingham Place.
Cincinnati, O.—Julius Baer, 138 E. 4th St.
Dayton, O.—Matthews, 16 W. 3rd St.
Colorado Springs, Colo.—Frank F. Crump.
Denver, Colo.—Daniels & Fisher.
Denver, Colo.—The Park Floral Co.
Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.
Galveston, Tex.—Mrs. M. A. Hansen.
Helena, Mont.—State Nursery Co.
Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.
Kansas City, Mo.—Geo. M. Kellogg Estate, 906 Grand Ave. Also Pleasant Hill, Mo.
Kansas City—Samuel Murray, 1017 Broadway.
London, Eng.—Wills & Segar, Onslow Crescent, Kensington.
Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.
Louisville, Ky.—J. Schultz, 644 4th Ave.
New Orleans, La.—U. J. Virgin, 833 Canal St.
New York—M. A. Bowe, 1294 Broadway.
Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.
Owatonna, Minn.—Clinton Falls Greenhouses.
Philadelphia, Pa.—Robt. Kift, 1725 Chestnut St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.
San Francisco, Calif.—J. B. Boland, 60 Kearny St.
St. Louis—Fred H. Weber, Boyle and Maryland.
St. Louis, Mo.—Young's 1406 Olive St.
St. Paul, Minn.—Holm & Olson.
Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.
Toledo, O.—Krueger Bros.
Toronto, Ont.—Dunlop's, 96 Yonge St.
Washington, D. C.—Z. D. Blackistone, 14th and H Sts.
Washington, D. C.—A. Gude & Bros., 1214 F St.

BLOWERS.

Blowers. Sirocco. American Blower Co., Dept. A. F., Detroit, Mich.

BOILERS.

Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

If you do not find what you need in our Ready Reference Department, write us about it.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers. Meyers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, New York.

Boilers, boilers of high grade for greenhouses. Steam or hot water. Giblin & Co., Utica, N. Y.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., N. Y.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

BUILDING MATERIAL.

Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouses and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material, cypress sash bars. Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1:60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress;" everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes. Established 1851. John B. Smith & Sons, Ltd., Toronto, Can.

Building material of all descriptions for all cypress, semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, New York.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard shredded Cattle Manure, 100 lbs., $1.20; 500 lbs.,$5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., New York.

Glass. High grade, double thick greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

GLAZING POINTS.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No right or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chicago and New York.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. Y.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, N. Y.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters. Jenning's improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

KNIVES.

Razor steel, hand forged, postpaid. Propagating, 50c; budding, 35c; Grafting, 25c; pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, Ohio.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

MISCELLANEOUS.

Krick's Perfect Plant Stand No. 1, including 10-inch saucer and rest, $2.35; No. 2, 14-inch saucer and rest, $2.50. W. C. Krick, 1166 Greene Ave., New York.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products, The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Pl., Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co, 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Stuttle's patent pipe clamp. Henry Stuttle, Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edward, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island City, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

FREE TO FLORISTS—Sample box of RED POTS. George E. Feustel, Fairport, Iowa.

STAKES.

Japanese bamboo canes, natural, 6 ft., original bundles, 2,500, heavy, $4.25 per 1,000; 6 ft., medium, $3.50; 5-6 ft., original bundles 5,000, pencil thickness, $3.25; 4-5 ft., $2.75; 3 ft., $2.25. Green colored, 1½ ft., original bundles 4,000, $1.20 per 1,000; 2 ft., $1.85; 2½ ft., $3; 3 ft., $3.50; 3½ ft., $3.75. Sold in original bundles only. Yokohama Nursery Co., 31 Barclay St., New York.

Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Reservoir vases for cemeteries and parks, from $6 to $100 each. Walbridge & Co., Buffalo, N. Y.

Iron reservoir vases. McDonald Bros., Columbus, O.

VENTILATING APPARATUS.

Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

If you do not find what you need in our Ready Reference Department, write us about it.

Best Quality. Hand-made

Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

——WRITE US.——

Baur Window Glass Co.

EATON, INDIANA.

MASTICA

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

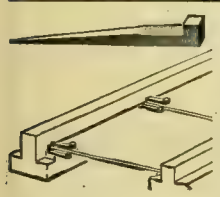
THE BEST WAY

to collect an account is to place it with the

National Florists' Board of Trade

56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



Siebert's Zinc Glazing Points.

Good for small or large glass. do not rust, easy to drive 5/8 and 7/8 inch Per lb. 40c. 5-lbs. $1.85. 20-lbs. $7.00.

VAUGHAN'S SEED STORE, Chicago or New York.

ROSE RHEA REID.—This American raised novelty, says The Garden, is the result of crossing American Beauty and a red seedling, and as a summer bedding variety, both in Paris and America last season, it is said to have proved to be the finest of outdoor varieties, bearing the unprecedented drought with impunity and providing a sheet of crimson-scarlet throughout the summer. As exhibited recently before the Royal Horticultural Society as a forcing variety the color was pale red, the blooms very full and the older petals rolled back at the margin, as is the case with La France and others. Whether the remarkable discrepancy of color as stated above is due to the forcing treatment and the absence of winter sun in England, we do not know; but in America its success as a forcing variety is said to be variable. The variety is certainly a free-flowering one, and if it can endure long continued drought will not be wanting admirers on this side of the Atlantic. It is, we believe, from the same source as the welcome and now indispensable Richmond.

YOUNGSTOWN, O.—John Walker held his annual reception at his greenhouse at Crab Creek April 4.

BAY CITY, MICH.—Potratz & Schweers have taken possession of the old Wm. Reuther greenhouses and are conducting a retail business there.

Attention!! Glass Buyers!!

WHILE IT LASTS—FIRST COME, FIRST SERVED.

A limited stock of "HIGHEST QUALITY" GREENHOUSE GLASS at the following RECORD BREAKING PRICES:

16x18 A, Double Strength.....$2.20 16x24 A, Double Strength.....$2.35
16x18 B, " " ..... 2.05 16x24 B, " " 2.20

F. O. B. Chicago, Less 2 per cent. for cash. Mention prices when ordering.
——other sizes at low prices also——

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,

Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

Don't Buy the "Just as Good" Kind

Insist upon "the best" brand

Greenhouse Glass

Made by the

World's Largest Producers

Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

AMERICAN WINDOW GLASS CO.

Farmers' Bank Building, PITTSBURG, PA.

The James H. Rice Co.

IMPORTERS and JOBBERS

GREENHOUSE GLASS

A SPECIALTY.

Window Glass, Paint, Putty, etc.

Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

STENZEL-GLASS CO.

2 Hudson St., NEW YORK.

——Specialists in——

GREENHOUSE GLASS

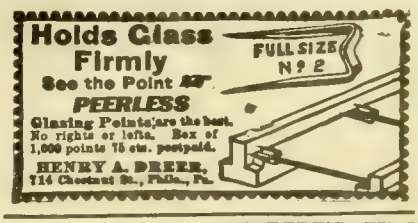
In carload lots or less direct from factory.

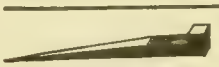
NO HANDLING. NO BREAKAGE.

Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address

JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.





SIEBERT'S ZINC Never Rust GLAZING POINTS

Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes 5/8 and 7/8. 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

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"SULFOCIDE"

PRATT'S

SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use **1** part to **75** or **100** parts of water.

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INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. **$1.50 per gallon.** Also in quarts, half gallons and in bulk.

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Original Designs.

Attractively Finished.

We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers. Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

Reservoir Vases

For Cemeteries and Parks

THE BEST MADE

The reservoir supplies the plants with moisture by capillary attraction.

Not necessary to water plants oftener than once in ten days.

We make nearly 100 styles, ranging in price from $6.00 to $10.00 each.

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The Original Patentees and Makers,

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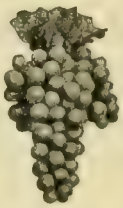
Vine, Plant and Vegetable

MANURE

UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



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Tweed Vineyard, Clovenfords, Scotland.

Iron Reservoir Vases

AND

Lawn Settees

Manufactured by

McDONALD BROS.,

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The largest manufacturers of these goods in America. Send for catalogue.

"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

ALBANY, N. Y.—Gloeckners are showing pink and white hawthorn at their store at 87 State street.

NEWPORT, R. I.—The creditors of John J. Butler and Agnes T. Moore, doing business under the name of M. Butler & Son, have petitioned the United States district court to declare the firm bankrupt. The court has ordered the firm to show cause why the petition should not be granted. The creditors allege that the firm has made an assignment. The principal creditors are Wm. C. Scott, $841; A. and H. G. Hammett, $228; Oscar Schultz, $93; Wm. Scott & Co., $98, and Vencelslaus A. Vanicek, $129.

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,

OWENSBORO, KY.

This Kills Mildew Every Time.

For particulars write

BENJAMIN DORRANCE,
Rose Growers,
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Published quarterly. Annual subscription for weekly and quarterly numbers. One Dollar. (International money order). Subscribe today and keep in touch with European markets and topics.

The Horticultural Printing Company
BURNLEY, ENGLAND.

BASKING RIDGE, N. J.—Chas. Roberts is building a large greenhouse on his property at Madisonville.

PITTSBURG, PA.—James Maranti, aged 32, a landscape gardener, of 109 Stoebner alley, while riding a bicycle near the entrance to Highland park April 4, was struck by an automobile owned and driven by E. C. Wefing, a real estate dealer of 5433 Walnut street. Maranti's left leg was broken above the knee, his scalp lacerated and his left hand bruised.

Vi Fluid

THE IDEAL WINTER SPRAY SCALE KILLER & FUNGICIDE

POWERFUL CLEANSER AND INVIGORATOR
Mixes Instantly. No Sediment. No clogging. Non-injurious to user
COMPARATIVE TEST WILL PROVE ITS MERITS
Quart, $1.00; Gallon, $3.00
1 gallon makes 100 gallons. Write for descriptive pamphlet and testimony

PROPS. WM COOPER & NEPHEWS
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Freight prepaid on direct orders. Mention this paper.

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Use These in Your Decorations

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All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

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PHILADELPHIA OFFICE:
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Green Flies and Black ones too are easy to kill with
The Fumigating Kind Tobacco Powder
$3.00 per bag 100 lbs.
Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?
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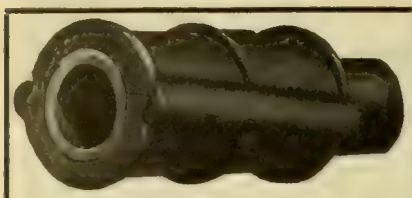

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For Rust Holes and Split Pipes.

Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by

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STEEL Return Tubular BOILERS

The Most Economical type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

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CHRIS. PFEIFFER BOILER CO.,

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We build a special steel hot water boiler shipped ready for operation. No brick required.

Phones; Main 4361. 4399.

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THE HORTICULTURISTS' RULE-BOOK (L. H. Bailey).—Contains information valuable to all those engaged in any branch of horticulture. Illustrated. 312 pages. 75 cents.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent).—The most complete and authentic work on the subject. The pages number 826, with over 600 illustrations. $6.00.

THE ROSE.—Its cultivation, varieties, etc. (H. B. Ellwanger).—A complete guide of the cultivation of the rose, together with the classification of all the leading varieties. $1.25.

GREENHOUSE CONSTRUCTION (Taft).—It tells the whole story about how to build and heat a greenhouse, be it large or small, and that, too, in a plain, easily understood, practical way. It has 118 illustrations. $1.50.

AMERICAN FLORIST CO. 324 Dearborn St., Chicago.

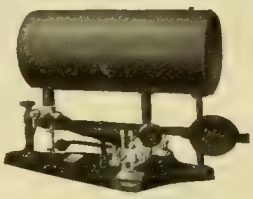
Vaughan Specialties

Lowest Prices.

Scollay's Sprinklers, Perfection Points, Mastica, "Rose Grower" Bone Meal, Cane Stakes, Sphagnum, Nicofume, Nikoteen.

Vaughan's Seed Store,
Chicago. New York.

20 Years in Service



MOREHEAD Return Steam Traps

Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.

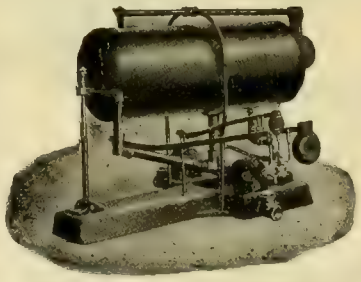
The Floral Establishment of Mr. George Reinberg, Chicago, Ill., is equipped with **24 Morehead Traps.** Repeat orders. See the point?

——Write for particulars and a 30-day free trial.——

MOREHEAD MFG. CO., 1043 Grand River Avenue, **Detroit, Mich.**

INSTALL A :: :: **"DETROIT" Return Trap**

And You Buy a Guarantee.



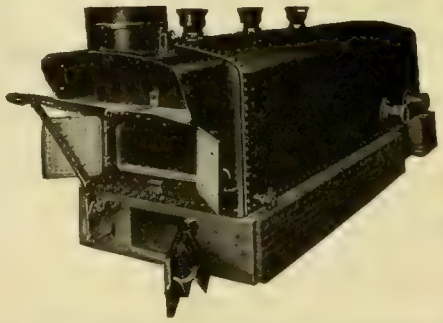
"Detroit" Return Trap. (Patented)

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one-tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

Dept. A. F. DETROIT, MICH.



SEE HOW WELL THEY LIKE ME

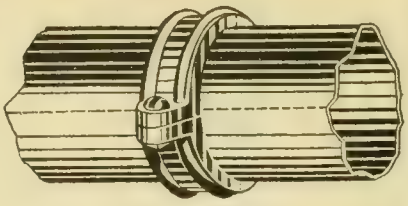
150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906.

Ask for list of users and get acquainted with the men who know.

Catalogue and prices on application.

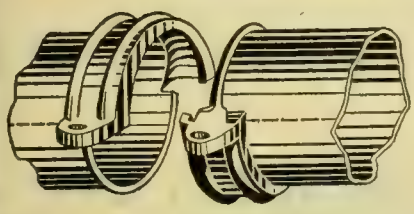
KROESCHELL BROS. CO., 45 Erie St... ...CHICAGO.

Stuttle's Patent Pipe Clamp



Especially adapted for joining old boiler tubes now so generally used in hot-water heating of greenhouses. Also it is invaluable for utilizing old cast-iron pipes which otherwise would be consigned to junk pile.

Easy to put on in any position and even more easily removed.
Cheap as the cheapest joint in use and 100 per cent superior.



HENRY STUTTLE,

Inventor and Patentee.

BATAVIA, - ILL.

The Superior Improved Internal Fired Boiler

Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use; shipped on skids ready for installation. Specially designed for greenhouse use.

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Catalogue and Prices on Application.

Superior Machine & Boiler Works,

125-133 W. Superior St. CHICAGO, ILL.

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

S. WILKS MFG. CO.,

3525 Shields Ave. **CHICAGO.**

WESTERLY, R. I.—Stock is scarce in this section, especially carnations, and the prices just before Easter held high.

ASHEVILLE, N. C.—Rocklin & Lehman have opened a branch store at 405 Fourth street between Pierce and Douglas. Their increasing business necessitated another store.

PASSAIC, N. J.—W. L. Hundertmark, manager of the McAllister Co., reports excellent business right along with future prospects of the brightest. Good wedding decorations have been quite a feature of the work of late.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates: 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler. 60 horse power. 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!

A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc. some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted: 50 4½-in. tubes: 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted: 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

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A WIRELESS MESSAGE
IF YOU WANT
BUY FROM PHIL FOLEY
WHO RUNS THE FACTORY
IN THE CITY OF CHICAGO.
YOU WILL WEAR A SMILE
CAUSED BY PROFITS
FROM CROPS
GROWN IN HOUSES
BIG
RESULTS
WESTERN, ARTESIAN AND CAMPBELL AVES
25TH TO 26TH STS
CHICAGO
BUY YOUR BUILDING MATERIAL · WOOD · IRON · GLASS FROM FOLEY

Davenport, Ia.

The Tri-City Florists' Club held its regular monthly meeting at the residence of its ex-president, Wm. Knees of Moline, Ill., nearly every member being in attendance. The topics for the evening were "The Hail Storm," and "Would it be a Benefit to the Florist to Hold a Flower Show." The club was divided as to the benefit so the question will come up again at some future meeting. A. Anderson had on exhibition some very fine seedling carnations, which won the admiration of all present. One of the seedlings was variegated yellow and red, a good flower with fine, stiff stem and a first class carnation in every respect but color. Two others, a red and a light pink, will bear watching. One new member was added to the club. After the other routine matters relating to the late banquet were disposed of, the members adjourned to the dining room where a fine luncheon awaited them, after which an hour or so were spent in sociability.

NOTES.

A terrific hailstorm visited this locality on the evening of April 5, doing a great deal of damage. Hail fell measuring three inches and more in circumferance and every florist in the three cities lost glass with the exception of Wm. Knees and John Staack. The Bills Floral Co. lost about 2,000 panes, Chas Hunwell, 400, Central Park Greenhouses, 800, Bahr, 200, Henry Pauli, 500, Ewoldt Bros., 523, Ludwig Stapf, 750, Henry Gaethje, 800, Henry Brookman, 650, — Davis, Miss R. Woltman, Underhill and Asmussen sustained heavy losses. John Temple lost about 600 lights and Henry Behring, 125. Garrett lost nearly one-third of his glass. Hotbeds were completely wiped out of commission. Had there been the least wind no doubt it would not have left a pane of glass in the establishments of the firms named Luck, however, was with the florists, at least for two days, as it remained above the freezing point. On April 8, the thermometer went down to 20° and April 2, to 12° above zero. Nearly all were fortunate enough to carry hail insurance.

Cold and heavy wind is on hand for the Easter business. If this weather keeps up, lilies will have to be wrapped in horse blankets for delivery.

Wm. Knees is planning to visit his mother in Germany this summer, intending to leave the first week in June.

T. E.

LAFAYETTE, IND.—Herman Roth intends to double the capacity of his greenhouses this season and, when complete, it will be one of the finest plants in the state.

POTTSTOWN, PA.—The flowers at the funeral of Mrs. H. T. Narvell of Cleveland, O., April 3, were very choice and the designs most elaborate. Their value was estimated at $4,000 and they covered the entire lot in the cemetery.

A 256-Page Book Free

Every greenhouse owner will want one of these books. It contains over 2,500 valuable hints and pointers for the grower and 700 remedies for diseases and insects. It gives you formulas for standard remedies, and is **worth $5.00** to anyone who is in the trade.

WRITE FOR THIS BOOK

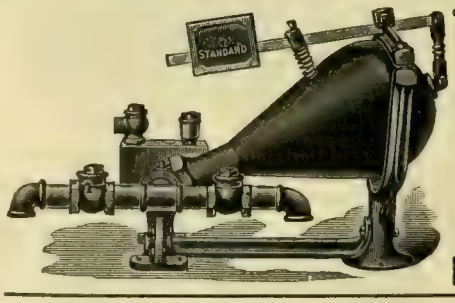
If you have no printed letter head, send us 25c to pay the cost of printing and the postage, and the book will be sent you promptly. You will never regret buying one of these books, and if you have a printed card, envelope, letter head or stationery of any kind, you will get the book, postage prepaid, free of cost.

JOHN C. MONINGER CO.
CHICAGO
113 E. Blackhawk Street.

Get in Line--Now is the Time

IT is bound to cost you more to build in the near future. Save your money by building now. Give us a chance to estimate. We furnish plans free with all orders for materials.

Hitchings & Company
1170 Broadway New York



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

E. HIPPARD, Youngstown, O.

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ARE THE IDEAL HOUSES FOR PRIVATE ESTATES, PARKS, INSTITUTIONS AND FLORISTS' SHOWROOMS.
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1 MADISON AVE. NEW YORK
Send for catalog.

Send Your Advertisements Early.

A BOXWOOD WREATH.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, APRIL 24, 1909.** **No. 1090**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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Address all correspondence, subscriptions, etc., American Florist Co., 324 Dearborn St., Chicago.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

The Celandine.

Pansies, Lillies, King-cups, Daisies,
Let them live upon their praises;
There's a flower that shall be mine,
'Tis the little Celandine!
E'er a leaf is on a bush,
In the time before the thrush
Has a thought about its nest,
Thou wilt come with half a call,
Spreading out thy glossy breast,
Like a careless prodigal;
Telling tales about the sun
When we've little warmth or none.

Careless of thy neighbourhood,
Thou dost show thy pleasant face;
On the moor or in the wood,
In the lane—there's not a place
Howsoever mean it be,
But 'tis good enough for thee.

—WORDSWORTH.

SUGGESTIONS FOR PLANT GROWERS.

Salvias.

Look carefully after the young stock now, whether seedlings or from cuttings, and do not allow them to get hard in the pots. Avoid overcrowding, too, as these cause checks to the growth that are followed by flowering and not by the healthy growth that is desirable now. Where the stock is likely to be sold out clean at bedding-out time it is a good plan to root some cuttings now to plant in flats and top them once. Then at the middle or end of June these can be planted out in good soil, kept pinched, and will produce a lot of fine cuttings in August and September for stock purposes. Make the cuttings of the soft tops and side shoots and they will root very rapidly.

Foliage Begonias.

The make-up of some of the baskets used at the recent Easter showed the value of the smaller-leaved varieties and species of begonias of the Rex and similar sections. The heavier large-leaved kinds are not so good, but the color in the foliage of these small kinds, especially if kept to small pots and grown in a good light, is exquisite, and a return to favor of many of the old and half forgotten species and varieties is not at all unlikely. Where stock is scarce the leaves may be used for propagating, simply breaking the midrib in one or two places and a few of the stronger sub-divisions of the raised veins and pegging them down on pans or flats of sand kept constantly moist. Young plantlets will soon appear and may be first pricked off around pans and later potted singly to be grown on. Nothing is easier to grow, and anyone who has a demand for small and cheap made-up devices ought to raise some at least.

Small Fine Foliage Plants.

The principal point in the culture of small ornamental stock is to keep it always moving and always have new plants to replace those that are past their best. Frequent propagation is necessary for this and should go on practically the year around. For summer use a portion of a bench should be divided off and surrounded with linen or other material as used for shading, this keeping the divided-off part closer and moister than the other portions of the bench. Here, without any bottom heat, many of the small foliage plants such as petunias, tradescantias, panicums, coleuses and others may be rooted in quantity, and it also makes a useful place to nurse along any plants that need special attention and a closer atmosphere, such as newly pricked off seedlings or recently potted small stock that is hardly able to stand the air of the growing quarters. Referring again to the small ornamental plants, retailers who have their own greenhouses do not show this class of stock as much as they ought to. The price that can be obtained for it is not high, it is true, but it is quite a distinct side line and need not detract in any way from other sales. Then there are numberless little vases, jars and other receptacles that, filled with this class of plant, retail at a fine profit, while the plants, after doing a turn in the store, may be cut up again for stock if not sold.

Dracenas.

Before the propagating season is over see that there is a good stock of dracænas. Well ripened shoots may be cut into lengths and laid in sand just deep enough to cover them, a little rough moss being placed over the surface to retain the moisture. Where there is a doubt about the stems having been well ripened before being cut, it is good practice to lay these in entire and not to cut them up. We recently saw a batch treated this way, and while the number of shoots starting may not have been quite so great as from a first-rate batch from well-ripened stems, yet there were quite a large number, and the propagator in this instance had used this method in preference to cutting up the stems, as he was afraid of losing them all by damping. The joints that were placed in sand some time ago will now probably be ready for potting. They may go into 2½-inch pots and be stood fairly close for a time until they get over the change, the heads lightly sprayed over twice daily and a light shade put on when the sun is bright. Now that the Easter stock is out of the way the young dracænas in 3-inch pots

may be spread out, given a shift if necessary and grown on through the summer. They will make fine stock for fall use.

Lantanas.

The foliage of the smaller varieties of lantanas is singularly attractive to red spiders and white fly, and if these insects are allowed to get ahead they soon spread to salvias, heliotropes and other small stock that is frequently grown in the same house. There is often a lack of room in the plant houses at this time and such stock is very apt to be crowded on the benches. In these crowded parts the insects always get their first start, and from here spread to clean plants. This is another reason for our frequently repeated advice to plant growers not to propagate more stock than they can grow on to a finish or else dispose of as young plants. Just now a new stand and more room will be needed by this class of stock, and in moving them over watch the lantanas closely for any signs of these insects and clean them thoroughly should any be noticed. Cuttings still on the bench must be potted, and fall stock given a shift where needed. Keep the buds regularly pinched out until they are wanted in flower, allowing about four weeks for the flowers to open.

Geraniums for Winter Flowering.

The value of the zonal geranium as a winter-flowering plant is not sufficiently recognized. There are many subjects more difficult of culture, more expensive and less attractive that are grown much more than they are, and we would like to see them more popular. The present or any time within the next two months is a good time for propagating. Cuttings should be taken of good top shoots where possible, but almost any piece of geranium wood with a couple of eyes to it will strike and make a plant. Many of the bedding varieties, such as S. A. Nutt, Poitevine, Jean Viaud and a number of others, are just as suitable for winter flowering as for bedding; any variety, in fact, of good dwarf habit, free flowering and of bright color. The latter is an especially good form and will doubtless increase in popularity. Then there is the old Rasfail and its improved forms which produce remarkably long-lasting and showy flowers. The round-flowered single forms that are such favorites in England are very fine in appearance, but the semi-double and double forms of the Bruanti section are far better for growing as plants, the habit in most cases being better, the foliage finer and the plants better for shipping, as they do not drop like the single forms. Plenty of light and plenty of air all through the growing season and sufficient pot room to prevent anything approaching starvation are the principal needs of pot geraniums, and the plants must be kept pinched and the flower buds picked out until about six weeks before they are needed in flower.

BOSTON, MASS.—A Leuthy & Co. sold out everything they had at the recent Easter at prices about the same as those of last season. There was enough stock to go around but the old story of growers holding back stock was repeated.

THE RETAIL TRADE

WE note that the ladies' hat proposition is being described as an exclusive novelty by some magazines.

BLOOMINGDALE BROS.' roof garden at Third and Lexington avenues, New York, was a magnificent sight during the Easter trade rush. Under the 30,000 square feet of glass were banked azaleas, heather, rhododendrons, genistas, rambler roses and all the popular Easter plants making a scene of great beauty.

Floral Muff.

The floral muff herewith illustrated was the work of W. L. Hundertmark, manager for the McAllister Co., Passaic, N. J., for a recent wedding. Yellow gauze ribbon was used with the one composed of yellow daisies, white satin with that of lily of the valley and the effect in both cases was excellent. In connection with the wedding the company carried out all the decorations at the church and home, which were very elaborate.

Floral Muff.
By McAllister Co., Passaic, N. J.

Wreath of Sweet Peas and Cattleyas.

SEE SUPPLEMENT WITH THIS ISSUE.

Beautiful wreaths may be made by the use of sweet peas alone but, unless they are very skillfully arranged, there is apt to be a flatness to the finished wreath that is not exactly pleasing and here is where the addition of some larger flowers is advisable. Cattleyas are especially suitable; their soft neutral tints blend finely with those of sweet peas, or indeed almost any other flower, while the graceful contour of the blossoms is the very reverse of stiff and corrects any tendency to stiffness in the other flowers. When they can be obtained, the feathery flowers of Gypsophila paniculata are one of the most beautiful additions to a bunch or wreath of sweet peas. It gives an airy lightness to them that is impossible to obtain in any other way though when this flower cannot be had Asparagus Sprengeri pulled to pieces and stemmed may be introduced with good effect. Some of the sweet pea vine and tendrils may also be used with good effect, when they can be obtained fresh, another instance of a flower looking best with its own foliage.

The coloring of the sweet pea makes it more difficult to select a suitable ribbon than is the case with some other flowers of a more purely self color. But, on the other hand, if a good selection is made there is a chance of getting most beautiful combinations or gradations of color through the pinks and rose tints, mauve and pure white. See to it that the colors do not clash and detract one from the other, this needing more care, perhaps, in the mauve and blue shades than in the pinks. In making up this class of wreath it will be found an advantage to work a little moss between the stems of the flowers to keep them apart and prevent bunching, the sprays of Asparagus Sprengeri also helping in this way. The cattleyas should be so arranged that the flowers look straight out of the wreath and are not crowded, each one showing its characteristic shape and exhibiting the fine color of the lip to advantage. Thus treated these orchids are among the finest flowers extant but crowded in a bunch with the sepals pressed inwards they lose all individuality.

Easter Plants in the New York Stores.

The week preceding Easter opened with unseasonably warm weather and there were grave fears for much of the plant stock. Fortunately, the weather turned cold on Wednesday and though high winds caused some discomfort and inconvenience it was an improvement over earlier conditions. An immense stock of plants was in evidence throughout the week. As previously outlined in these columns, there was no surplus of pot lilies. Though there were many lilies, strictly first class stock was an exception. What was offered sold well, which goes to prove a leading retailer's claim that "the people are as fond of lilies as they ever were if they can get good ones."

Judged by the calendar this was not a late Easter, but seldom has stock been so far advanced. This was particularly noticeable in the pink roses, Dorothy Perkins, Lady Gay, Hiawatha, Newport Fairy and others. Much of the stock of these roses, of which there was an immense quantity, was so far advanced as to be off color, and consequently unsatisfactory. While the azaleas as a rule were nearly wide open, there were many fine specimens to be seen and they did not suffer like the roses. In popularity, the oft repeated saying that a good azalea will sell if anything will, was again verified. There were many fine specimens of rhododendron but they too suffered from the open season.

The hydrangeas, in blue, pink and white, seemed all that could be desired in point of bloom, but did not seem to sell as well as other stocks. "They are trouble makers," said a dealer, "because most of the people neglect to water them." It seemed, however, that more small or medium sized plants would have been very desirable. Many fine plants of bougainvillea were noted. In the show

EASTER PLANTS IN STORE OF ALEX McCONNELL, NEW YORK.
New Unnamed Rambler Rose on Right.

windows of several retail stores, standard plants of this variety were exhibited with fine effect. There was also a good stock of small bush plants in 5 to 7-inch pots, which sold well. The marguerites played an important part in the plant trade; their popularity does not seem to wane. There were many splendid specimens to be seen, grown in 12 to 14-inch pots to standards and covered with blooms. From these sizes there was a grading down to small plants that wholesaled for $4 per dozen. Some of the large sizes brought $5 and $6 each.

The stock of ericas was not large, but it showed its worth, particularly in basket combinations. It may be said in passing, that though we have heard more or less of the Crimson Rambler rose being displaced by newer varieties, it has shown decidedly to advantage, in keeping qualities, over the others this year. Pans of lily of the valley and hyacinths, the latter singly and grouped, were frequently seen and seemed popular. There was a very great stock of good geraniums on the market; they, as well as many other plants, being frequently seen in the wagons of street vendors. On April 9 a dealer of long experience in this city remarked: "I have never seen so many plants on the streets of this city as I saw yesterday." With a great amount of stock in the last stage of bloom it was simply a case of getting something out of it. The annual Saturday before Easter plant sale on Union square brought out large numbers of both sellers and buyers. Though much of the stock was far advanced, there were many really good specimens of rambler roses, azaleas and hydrangeas. A great amount of stock was sold, prices dropping as the day advanced. By night a very fair rambler rose or azalea could be bought for $1 to $1.50. In the leading retail stores many handsome basket combinations of plants were noted and many of them were sold at prices ranging from $20 to $30. The rambler roses were much used in basket combinations. For this purpose, trellised baskets were used for large plants, the combinations being completed with small azaleas, ericas or such other plants as pleased the fancy of the designer.

Easter Cut Flower Trade at New York.

Viewed as a whole and taking into consideration the condition of other lines of business, the trade in cut flowers was very satisfactory. John I. Raynor, one of the oldest and most reliable members of the wholesale craft, voiced the general sentiment when he said: "The days of very high prices have passed. There are now so many growers and so much stock is being sent to this market that it is unreasonable to expect extraordinary prices at this season." A large amount of stock was sold in this market for more than its actual worth, and nobody realizes this more than the wholesalers themselves. We are now dealing with the present. It is a mistake and a great and inexcusable blunder for growers to "salt" or hold back stock for Easter. Within a few days preceding Easter, we noticed many carnations and violets, that, to drop into the vernacular of the street, were "rotten." Roses were not at all plentiful, but prices could not be forced up much above the normal. the best average price for special American Beauty roses was 50 cents each; a few probably sold for 60 cents but they were the exception. Killarney went better than Bride and Bridesmaid, specials bringing 15 cents, extra good stock going as high as 20 cents. While a few Bride and Bridesmaid may have brought 15 cents the bulk of the stock went at from 8 to 12 cents. There came very near being a surplus of carnations and many sold for three cents, five cents being top figures; excepting the Ward and John Young novelties which, we believe, sold for as much as six cents. There were no good cut lilies on the market. We saw cut lilies sold for 12 and 15 cents, that in former years would scarcely have been taken as a gift.

On Easter morning lily of the valley was an impossibility; it could not be

bought. Six cents was offered, but it might as well have been 25 cents, for it was not to be had. In this one stock the wholesalers made a mistake. They started it at $2.50 and $3 per 100 when they might have had $5 and $6. But we all have hindsight, foresight being what counts at Easter. On the afternoon of April 9, thousands of violets sold for 25 cents per 100. It was hoped that a reaction would set in on Saturday but the influx of little short of 1,000 boxes on that day prevented this. The hot weather of Monday and Tuesday was very unfavorable to violets, but the situation was inexcusable. On Easter morning we saw violets, the odor of which was but little more pleasing than that of a compost heap.

Orchids went very well at from 60 cents to $1 each for cattleyas, other varieties in proportion. There was no very unusual movement in gardenias, good blooms selling for $5 per dozen which is little more than the normal price. Good sweet peas sold readily at from $2 to $2.50 per dozen bunches, and as a whole this stock exceeded expectations. It is unnecessary to go into detail respecting a number of the minor stocks, possibly excepting Ulrich Brunner and General Jacqueminot roses, which, while not in great abundance sold readily; special Brunners bringing 40 cents each, wholesale, and Jacqueminots 15 cents. Stocks, both double and single, narcissi, tulips and other bulb stocks were in good suply, but the prices realized were little above the figures of ordinary trade.

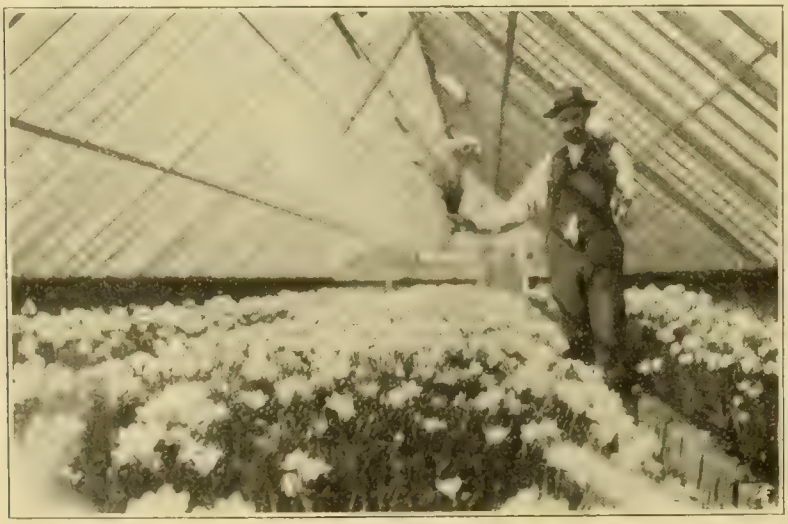
FREESIA PURITY.

Growing in the Field with Rudolph Fischer, San Gabriel, Calif.

A Pretty Evansville Wedding.

The wedding of Miss Margaret Grant Gray, only daughter of the late Senator and Mrs. James Gray, to Robt. Flint of Los Angeles, Calif., on April 6, was one of the most elaborately decorated ever seen in Evansville, Ind., the bride's home town. Julius Niednagel had the decorations which transformed the palatial home of the Grays into a veritable garden of flowers with floral decked arbors running the entire length and breadth of the large reception room. Stately palms and garlands of southern smilax were used to outline the room, the mantel decorations being of Bride roses.

Ivory roses graced the drawing room in which the ceremony took place and vases of Easter lilies on pedestals on either side the altar gave a seasonable touch. A pretty feature was the large rose ball over the foot of the stairway. Here, as she left the lower step, the bride met the groom and the great rose, bursting into bloom showered rose leaves on both, literally a roseate promise of future happiness. The bride's dress was embroidered with roses and lily of the valley, a tulle veil being caught with an orange blossom coronet from which the flowers drooped gracefully to her shoulder. Her bouquet was a shower of lily of the valley. The dining room was also very beautifully treated, Killarney roses being the principal flowers used.



FREESIA PURITY.

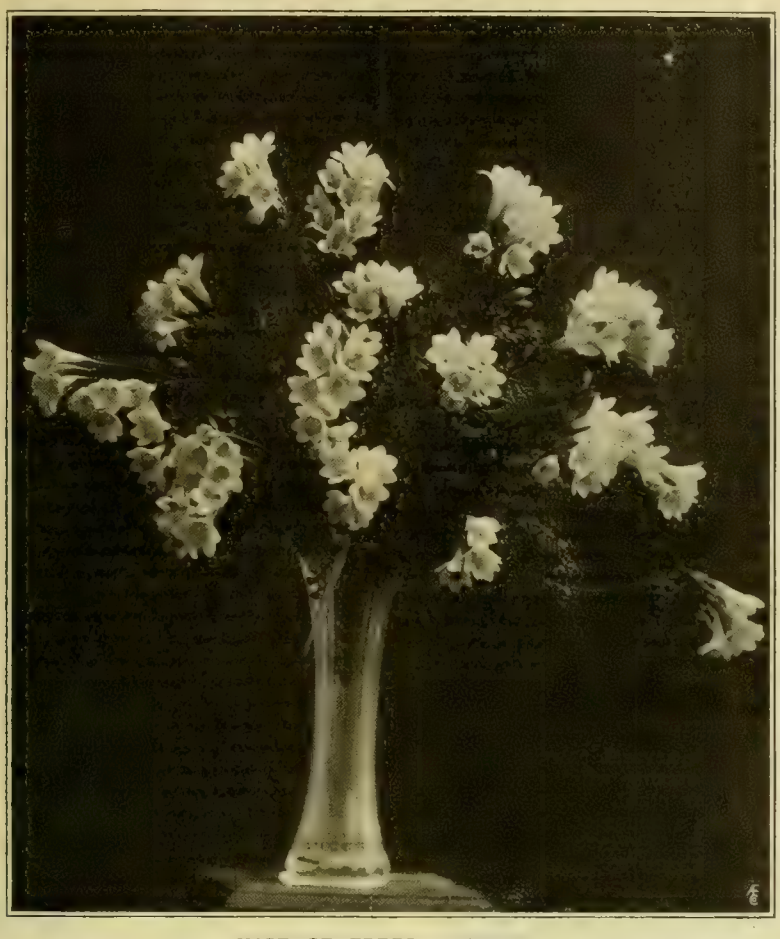
In the Greenhouse at R. Fischer's, San Gabriel, Calif.

Choice Funeral Work.

After a very satisfactory Easter trade, Mrs. M. D. Reimers, of Louisville, Ky., was called upon to furnish some very choice emblems for the funeral of Ernest Ball, of Versailles, Ky., who frequently exhibited fine horses from the stables of Ball Bros. at the Kentucky horse shows. One piece consisted of a large horseshoe, made entirely of large California violets and edged with mignonette. It required 3,000 violets to make the piece. A handsome spray of six dozen long stemmed American Beauty roses was placed on a pall of Asparagus plumosus and adiantum. A beautiful basket of Harrisi lilies was placed at the foot of the grave. The three pieces made a beautiful grave decoration.

CLEVELAND, O.—The J. M. Gasser Co. reports a 10 per cent increase in sales with better prices on plants and plenty of stock in all lines except violets. Rambler roses, lilies and azaleas were the best sellers in plants, violets, sweet peas and roses in cut flowers. Bulb stock and spireas met with little favor.

DENVER, COLO.—The Park Floral Co. reports a 20 per cent increase in sales at prices the same as those of a year ago. More lilies and Lady Gay roses could have been sold in plants, also violets, but there was plenty of everything else. Pot azaleas and bulb stock in pots and cut were slow sellers.



VASE OF FREESIA PURITY.

Freesias of Pedigree.

The illustrations herewith show Freesia Purity as grown by Rudolph Fischer, San Gabriel, Calif., in field, greenhouse and lath house, with a vase of the cut flowers as used for decorative purposes. Mr. Fischer has a large stock of this fine freesia and says there is a great demand for seed, which, of course, cannot be supplied, as Purity or any other freesia does not come true from seed. The high price of stock of this fine variety is evidently a great temptation to unscrupulous growers to increase their stock by seed, thereby making it practically impossible in a few years to secure pure stock. It is too bad that such a condition should exist after all the work and care bestowed on this variety to bring it to its present state of perfection.

PORTLAND, ORE.—Clarke Bros. report a 20 per cent increase in sales at Easter at prices the same as last year. Easter lilies were the only short item. Bulb stock had only a poor demand.

HALIFAX, N. S.—Sales at Easter were greater this year than last with F. W. Killam at similar prices. There was a sufficiency of plants but not enough roses, violets or carnations. Trade in general is good.

LAWRENCE, KANS.—Sales and prices with C. M. & E. S. Luther at Easter were almost the same as those of last year. More plants and cut roses could have been sold. Lilies were in great demand in plants and roses, lilies and carnations in cut flowers.

THE ROSE.

Roses.

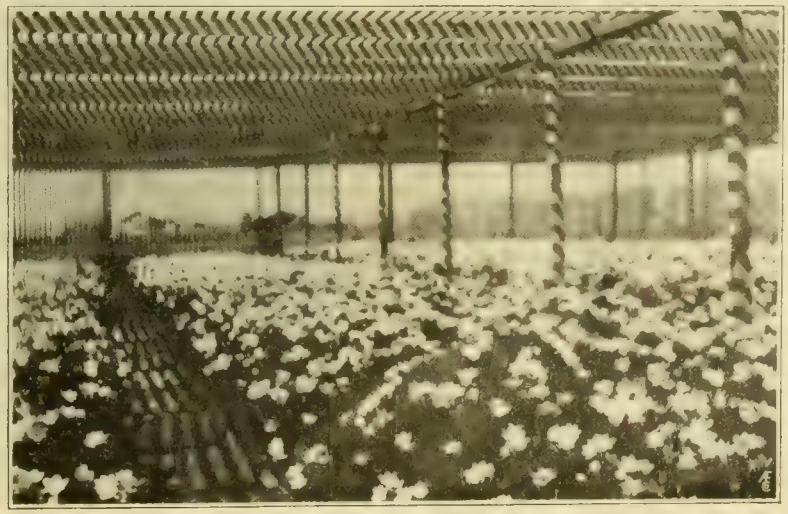
A paper read by L. Reuter, Westerly, R. I., before the Gardeners' and Florists' Club of Boston, April 20.

It has been somewhat of a puzzle to me to know what line to take in talking on roses at this meeting. Although I sometimes find myself talking as though I really had very definite ideas on methods of growing roses I generally get back again to the point where I think that I am only a student and that what seems to be a settled fact today is surrounded by questions tomorrow. The subject "Roses" is broad enough, in a way, but when I come down here to your shows I am struck with the idea that the growers for this market know quite a lot about roses. It would be much easier for me to show what I don't know than it would what I think I know. Consequently I shall not try to say anything regarding culture in general. The Boston growers know some things about growing almost any crop. Anyone who is not aware of that had better come here to some of the shows. He will see exhibits of all kinds and will find that within a not very great distance from Boston there are located men who can hold their heads up with the best in all lines, so I have decided to say a few words in the way of comparing the results from a few of our standard varieties.

CONSIDERATION OF VARIETIES.

Of course, we must consider Bride and Bridesmaid first, and my first impulse was to escape the bother of following out a maze of figures and say that these two varieties were alike in productiveness, but I met a surprise there. Whether this is only a local condition or not I am not prepared to say, but I found Bridesmaid to produce the better. It has always been apparent to me that our stock of this variety was a little more thrifty, better able to resist mildew, etc., and I was a little bit reluctant to pass by the opportunity while I was poring over our records of satisfying myself as to the productiveness of these two old standbys. I found that our plants have cut as high as 12 blooms more of Bridesmaid than of Bride for the year. This number represents the limit, but in every case Bride fell short. As to the average price on these two there is little to be said. They hold about the same in the long run. This leaves Bridesmaid with an advantage.

Next we come to Killarney. This variety takes kindly to our conditions and we are able to get good stems and good color; it is hardly as good a producer as Bridesmaid but there is one important point to be considered. We cut short and weak stemmed blooms of the latter while on Killarney we



FREESIA PURITY.
Growing in a Lath House at R. Fischer's San Gabriel, Calif.

cut nothing less than No. 1 grade. All shorter breaks are pinched and left for double joint stems. The market price also favors Killarney, and with the public inclining to it when a pink rose is wanted, we must place it at the head of the list. How long this condition will last is a question. Bridesmaid had been the only standby as a pink rose for quite a number of years and we are now glad of a change, but the buying public are not going to be satisfied with nothing but Killarney as a pink rose any more than they were with Bridesmaid. Of the new ones none seems more likely to succeed in taking a share of the honors than My Maryland. It will by no means crowd out Killarney, but it will find a place if it can be grown properly. (Regarding this I want to say a few words later.) Richmond does not take kindly to our soil. I can hardly think that other growers who cut such excellent blooms get as low returns per plant as we do. We cut good flowers but not enough of them and are trying to find a soil which will suit the variety better. Another year we may find different results, but our experience this far has not been very satisfactory.

Chatenay is a heavy producer, ranking close to Bridesmaid, and is really a surprise when the seasons' average is considered. In grading there is an advantage at once, a good percentage of blooms being No. 1 and better. There are two main reasons why this rose is not more generally grown. First it has a bud too light for warm weather. Until the cool nights come on it is impossible to cut blooms with sufficient body for them to be salable, and the same condition exists by the early part of June. The other reason is that the buying public seem to consider Chatenay only as a novelty. A limited quantity will find a good sale, but I don't think it would be wise to plant very heavily. Mrs. Jardine has not been a success with us, it being shy and also weak in color during the time when the sun is strong. A perfect bloom of this rose is really very handsome and such blooms as were offered in the Philadelphia market at Christmas would always find a ready sale at a good price. Rhea Reid has been a stubborn variety and we found it necessary to discard it early this spring because it was not paying and we needed the room. With the coming of White Killarney, Bride will have its first strong competitor and there seems little doubt that this grand new rose will be received with a hearty welcome. It seems to be the general opinion of the store men, who had a good chance to form an idea, that this variety will prove a strong favorite for some time at least. It surely will be as good a producer as Killarney and consequently should be more profitable than Bride.

MY MARYLAND.

Now for a few more words concerning My Maryland: There has been a great deal said about this variety lately and several articles in the trade papers which have spoken well for the rose have kept well within the bounds of truth. There is no good reason for doubting the great value of My Maryland as a forcing rose, and not only is it good in winter, but it is especially good in the summer. The blooms have good substance, enough petals, and these hold their color so well that it will surely be appreciated during July and August. It is not susceptible to mildew or black spot and, as a producer, I believe that the best we now have will be pushed to hold first place. No doubt it has been inclined in some places towards resting this winter, but is that surprising? We didn't know the rose and its requirements and practically every one who grew it took every eye that could be used for grafting or cuttings, robbing the plants so much that it is not at all strange that the cuts were not heavy in some cases. It is a fact, however, that it has been made to produce very well by quite a few growers this year even through the most trying part of the season, and I will venture to say that next year will tell us a different story. We don't know yet how good it can be grown and it is very probable that we have heard the worst and only a small part of the good. I will try to give an idea as to what some of the varieties I have mentioned may be expected to cut. I have never gathered any definite ideas as to what other growers can get from their plants, but the following statements will give some faint idea at least as to what a plant may do.

PRODUCTION OF VARIOUS KINDS.

There are several things to be considered in stating what a lot of roses will cut per plant. Where the cut is given from a house of first year stock we must consider when the stock was housed, whether it was in the spring or in June or July. If we are speaking of carried over stock we must consider how the plants have been handled. We have cut from one house, to date, 20 months without a break. The plants were not rested last summer and are still doing well. In this case a count may be taken for a full 12 months. Where we rest a house each summer and carry it over two or more years, it is possible to count on 10 months' flowering. This is an advantage which carried over plants have over young stock planted each year, but when the stock passes the third year they seem to gradually cut less; two and three years at the most seems to be the limit for growing our forcing roses. From a house of Bridesmaid which cut 10 months in the second year we took 53 flowers per plant. This same house is cutting well now in its third year and had no rest last summer, but it will not equal that cut this year. The best cutting we have done for 10 months on Bride was 40 blooms per plant and Killarney 40 to 38, but the Killarney had hardly the full 10 months to its credit. Chatenay has cut for us 42 blooms for eight and one-half months; during that time the buds were of good quality, but to have run them longer into the summer would have been of little consequence. I cannot give an average cut from Richmond, as we have never handled it in a way that will permit comparison with our other sorts.

These records which I have mentioned do not mean that these are given because they are the best cuts I could find, but are simply a statement of last year. A house of roses may no doubt be made to produce better than these and it is also true that we may expect to fall below these figures at any time. All I have in mind is to give a general idea of the matter. When forming conclusions as to the relative values of these varieties mentioned, it is necessary that the subject be considered from all sides. While there is a difference in the productiveness of several varieties there are also facts to be taken into consideration before deciding which is the most prof-

ROSE WHITE KILLARNEY.

itable. While Killarney will not produce as heavily as Bridesmaid the higher percentage of No. 1 grade and better, with no No. 3 at all, which are cut from Killarney, gives this sort the advantage at once. And so it is with all the varieties. To make sure which are the best paying ones a record must be kept of the cuts, prices and grade of blooms. In conclusion I would say that I believe Killarney ranks first, Bridesmaid and Bride next in order named, with a possibility that Richmond may come in close to Bridesmaid.

CHRYSANTHEMUMS

Selecting Chrysanthemum Shoots.

ED. AMERICAN FLORIST:—

Last year the AMERICAN FLORIST contained the following statement: "After stopping chrysanthemums or after the June bud do not take the first shoot; pinch this out and take the next." Does this mean after the top has been pinched the first shoot is removed and the next allowed to remain? E. W.

Yes. The first shoot from the June bud or other natural break is often weaker than the next below while in the case of shoots following pinching the upper one is sometimes damaged in the operation. Hence the advice given.

Chrysanthemums.

A paper read by Elmer D. Smith, Adrian, Mich., before the Detroit Florists' Club, April 19.

Some time ago your secretary requested me to supply a paper on "Chrysanthemums," and, as this is a rather broad subject, I will only touch upon the most important phases. In the beginning let us consider the plant itself: It is a perennial, which, you are aware, means a period of active growth, terminating in the development of flowers, which is followed by a season of inactivity or rest. The most hardy are those whose antecedents originally came from northern China and represent the pompons or small flowering section. Those which are usually displayed and sold in flower shops are either the progeny of natives of Japan or those in which these two classes have been interbred. Those who are propagating for their own use only will have stronger stock if they adopt nature's way by giving the old plants partial rest; exciting them into active growth with heat weakens their vitality. Stock plants kept in the light and at a low temperature until the cuttings are needed will furnish the best material for the purpose. When the time arrives for propagation do not hasten roots from the cuttings by strong bottom heat. It is true perennials under glass will grow faster than when under more natural conditions, but ample ventilation will do much to produce a moderate and healthy growth.

PLANTING.

Strong plants and rich soil are important in the beginning, and with these two things provided at planting time, the results will surely be gratifying, if the watering, airing, tying, fumigating, feeding and disbudding are given prompt attention. Early varieties require early planting to secure strong plants by the time the early buds appear. The end of May or beginning of June should see such stock benched, the midseason sorts by June 25, while this work for the late kinds may be deferred until July 15. "How far apart should they be planted?" is a question often asked. Each grower must decide this for himself, for he knows best the grade of bloom which meets his requirements or can be disposed of at a profit. Within certain limits the greater the distance between plants the stronger the growth, the heavier the stem and larger the blooms. Eight or nine inches apart each way is a good distance and will produce high grade commercial blooms, while for fine exhibition stock 10 to 12 inches, according to the varieties being treated, is considered none too much. Varieties with small leaves, like Ivory, may be planted closer than some of the stronger kinds. Nicely finished blooms from four to five inches in diameter may be had by planting six inches each way, but the stem is usually weaker than when greater space is allowed. Occasionally some one asks how many plants will be required for a bench of a certain size. The following tables may be of some service. Multiply the square feet of bench surface by four when planting six inches each way, by 2.25 at 8 inches and 1.78 at nine inches apart.

ROSE BRIDESMAID.

DISBUDDING.

"How many blooms to the plant?" This, like the preceding question, is at the discretion of the grower. The greater the number the smaller the size. Two plants of the short jointed kinds, particularly those with small leaves, are often planted together, which gives longer stems than when set singly and then stopped to secure two or more blooms. Let the appearance of the foliage be the index in watering. So long as it is of good color there need be no anxiety, but should it become yellow it is evident there is an over abundance, due either to lack of drainage or too frequent application. Doubtless you are all familiar with the methods and realize the advantages of keeping the plants securely tied, and the same may be said of weeding, fumigating and removing the stools which spring up as the plants come into active growth. So let us pass on to more important features. This will bring us up to the time when disbudding will need attention.

This operation is very simple but it is imprudent to defer the work. That excellent motto "Do it now" should be tacked up in a conspicuous place

before the buds appear. In the beginning it was suggested to plant early for early blooms, and if the selection has been judicious there are some kinds which will show buds in July. Those forming at this early date are termed crowns and may be saved on Golden Glow as early as July provided extra early blooms are desired. Probably the best way to manage this variety is to plant from the first batch of cuttings about May 15 and then follow with subsequent batches as fast as ready up to June 20, securing the first bud that appears. This should give a succession of blooms from August 15 to October 25. Monrovia is also best from early buds, about July 20 to 25, October Frost and Beatrice May August 10, Early Snow, Polly Rose, Glory of Pacific and Pacific Supreme August 15 and later. All of the so-called early buds should be selected by August 20, or your competitor will have his crop cut before yours is ready. The best period for selecting buds of the mid-season sorts are the 10 days following August 25. In the late varieties from September 15 and onward for a month, according to date of planting and the kind under consideration.

FEEDING.

As the buds begin to swell the necessity of feeding will confront us. The commercial grower has little or no cause for over feeding while, on the other hand, those whose whole object is size, must reach their aim by applying to the limit. The limit is often difficult to discern, particularly when new sorts are being treated, and so it is some blooms are injured rather than improved by this unnatural procedure. What and when to apply requires some consideration. Experience has taught us that manures and chemicals are conducive to strong growth and large blooms, hence we resort to their use to bring about this end. Those who have not had experience with chemicals must be content with light applications or leave them alone entirely. All the failures attributed to this source are without doubt due to too strong or frequent applications. Some will question the truth in the assertion that nitrate of soda, nitrate of potash or sulphate of ammonium should not be given stronger than one ounce to 10 gallons of water. It has been recommended by some at the rate of one pound to a 50-gallon barrel, which is approximately one ounce to three gallons. I have used these proportions at long intervals without apparent injury, but if the applications are to be repeated every few days there is danger of doing great harm. Where soda and ammonia are used exclusively the growth is rampant and inclined to be soft. Potash seems to govern or control this undue vigor by increasing the metabolical or harder woody tissues. Soluble phosphoric acid (which is present in varying quantities in all manures and some of the chemicals) acts more directly upon the flower, increasing the number of petals, which gives the bloom greater depth, to the joy of the exhibition grower.

Hen, duck and dove manures are rich in phosphoric acid and vary from 14 to 17 per cent. If any of these are used in the liquid form it should be very weak. Bone black gives about 16 per cent, ground bone 5 per cent. Potash is present in all manures and is also supplied by nitrate of potash and wood ashes, the former supplying 40 per cent as well as 12 per cent nitrogen and the latter 8 per cent of potash. Nitrogen is common in all manures, but is more abundant in the urine, and the same may be said of potash, so the

The Late Lewis J. Risser.

Courtesy of the Canner Publishing Co.

real amount contained in the material at hand depends largely upon the loss from drainage and other causes. The cheapest form in the chemical salts is nitrate of soda, containing 16 per cent. Of these three constituents, nitrogen is the least staple, being easily removed by the continued application of water, hence it is required in larger quantities than the other two elements. The foregoing data is really of little consequence, further than showing the ma-

The Late Francis Calvert.

terials which contain them and the comparative strength. No fixed rule can be given for their application, as all depends upon the condition of the stock to be treated. Plants growing in very rich soil or those receiving a heavy topdressing will require less than where the conditions are not so favorable. Feeding is one of the features which is shrouded with mystery for the reason we have no knowledge of the functions performed by the assimilation of these foods except as they appear in the growth and texture of the leaves. The mystery of this problem depends on the grower's ability to grasp the meaning of these varied conditions presented at this final stage of development and decide whether to continue or desist. The foregoing principally refers to the commercial branch of chrysanthemum culture.

POMPONS AND SINGLES.

Before concluding this part of the subject I wish to impress upon you the adaptability of the pompons and singles to your use. Both of these sections lend grace and beauty to floral decorations of all kinds and to a degree that cannot be attained where the large flowers are exclusively used. They also make beautiful pot plants, either large or small, and, being of the easiest culture, are sure to find favor both with the grower and those who appreciate flowers from an artistic standpoint. Exhibition blooms are produced by practically the same methods. Varieties are selected for this purpose which produce the largest blooms, as size is considered the chief feature. Early propagation and planting are essential to this end. Rich soil and liberal feeding are also of equal importance. You are all aware that achievements in floriculture are not the result of any one thing we do, but the many things which receive prompt attention from time to time. It is equally true that it is not so much the superior knowledge, but the ability and energy to put this knowledge into practical use which gives one the advantage over another. Those of you who have been successful with carnations know full well that the promptness with which you have looked to every detail marks the degree of your success, and so it is with the chrysanthemums. A small amount of knowledge and a large amount of energy well applied will be better than these conditions reversed.

Callas Unsatisfactory.

ED. AMERICAN FLORIST:—

We are sending a plant of calla that for some reason is decaying. The plants were started last year and kept in a temperature of 60° at night; then, on account of the decay, they were moved to a house kept at 45° at night, but the decay kept up just the same. Please let us know the cause. The soil contained one part cow manure and three parts sod and the plants have been fed with sheep manure. The plants were the best we could buy and were treated as recommended in the AMERICAN FLORIST last fall.

S. BROS.

There is very little the matter with the callas. The soil in which the plants are growing could not be better and the mass of roots is prefectly healthy. But the appearance of the growth suggests that they have been rather over fed. Possibly had the atmosphere been kept a little drier at the time the decay started it would have ceased. It was not good practice to introduce the plants suddenly to a temperature so much lower. This could serve no good purpose respecting the decay and forms a check to growth.

As the season is so nearly over for these plants they may be kept growing until finished and then dried off. Another season we would suggest a little less feeding and a temperature of about 50° at night, increasing this a little should the flowers be needed early. G.

Berlin International Exhibition.

The great horticultural event of the year so far was the international exhibition of the Prussian Horticultural Society, held in Berlin, April 2-13, inclusive. Two large new buildings in the Zoological gardens were given over to this event, which was graced by the presence of the kaiser and the kaiserin.

Probably about two-thirds of the exhibits, according to the London Gardeners' Chronicle, were contributed by German exhibitors, and one-third by those of other nationalities. Altogether there were 420 exhibitors. Belgium contributed most of the fine foliage plants, including the excellent group from the Van Houtte Nurseries at Ghent. The Dutch Bulb Growers' Society produced a striking color effect with their hyacinths and tulips, and Holland also exhibited a considerable quantity of vegetables and salads, which were in every respect creditable. From France there were choice orchids from Lambeau, hybrid gerberas from Adnet, cinerarias from Vilmorin-Andrieux & Co., and various growers sent cut carnations, collections of fruit, vegetables and salads, which latter exhibits were amongst the best in the show. We may draw special attention to the hybrid gerberas. Flowers of some of the earlier hybrids have been seen at the Temple shows in London, but we have never seen such a presentment of their infinite variety and beauty as that shown by Adnet. England was represented by but few exhibits, of which the chief were orchids from Charlesworth & Co., carnations from C. Engelmann and G. Lange, and pelargoniums from H. Cannell & Sons.

Indian azaleas were well shown by T. J. Seidel, of Dresden, who was the principal exhibitor of these plants. The uncongenial weather of the present spring, however, has been much against these and other plants that in more favorable circumstances would have appeared to better advantage. Englishmen were impressed with the excellence both of the cyclamens and of Primula obconica. We have never seen such fine displays of Primula obconica as those at Berlin. The development of this plant has been of an extraordinary character; in the varieties exhibited the colors ranged from white through mauve, pink and red to the deepest crimson, whilst in some varieties the flowers measured as much as two inches across. Cyclamen cultivation is evidently well understood in Germany, the groups of these plants in the exhibition being remarkable for their unusually large and finely colored flowers produced in the greatest profusion.

Like most of the continental shows, the Berlin show was remarkable for the good taste evinced in the arrangement of the exhibits. In this respect, though not in the excellence of the individual classes, the Berlin show was superior to the exhibitions to which they are accustomed in England. In Berlin each several exhibit contributed to the general harmony. There was but little need for stages, since most of the plants were bedded out in natural groups. The pots for the most part were hidden, there were no obstructive labels, and any architectural features in the building that were considered inelegant were either draped with pleasing colors or covered with branches of spruce.

The countries represented on the board of jurors were France, Belgium, Holland, Sweden, Russia, Denmark, Italy and England. The exhibition covered an area of 2½ acres and the rental of the buildings was approximately $12,000; premiums, $16,800.

OBITUARY.

John Scott.

John Scott, the well known grower of Flatbush, Brooklyn, N. Y., ex-president of the New York Florists' Club, whose name is familiar to every florist in the country as the disseminator of Nephrolepis Scotti, was shot dead by Aloysius Gross, a discharged fireman, at his greenhouse establishment April 19, at 6 p. m. The man had been discharged by Mr. Scott's foreman. He went away and secured a weapon, returned and opened fire on Mr. Scott who was standing talking to his foreman at the time, the revolver, it is said, being directly aimed at Mr. Scott.

The Late John Scott.

Words cannot express the feeling of horror and regret, as a result of this fiendish deed, that is felt in the trade throughout New York and nearby towns, in which Mr. Scott was well known personally. To his aged parents, mourning wife and children and several brothers and sisters who also survive, the heart of the community goes out in deepest sorrow.

Mr. Scott was born at Newlandrig, near Dalkeith, Midlothian, Scotland, January 23, 1868, and served his apprenticeship at New Battle Abbey under Wm. Priest, a well known successful gardener. After a short time with a local nursery firm he went back to Mr. Priest, who now has charge of the gardens at Eglinton Castle, Ayrshire. He also served some time at the famous Bredalbane place, Taymouth Castle, and other Scottish places, and he came to this country in 1889. He filled several private places here and, after a visit to his old home, he accepted a position with the late Frederick Scholes of Keap street, Brooklyn. This place shortly after was turned into a commercial establishment and Mr. Scott succeeded to it. For some time he kept this on and also built new glass at Flatbush. A year or two ago the old Scholes establishment was broken up and the business removed wholly to Flatbush.

Mr. Scott is perhaps best known to the trade as the originator of Nephrolepis Scotti, a fern which has become very widely known and much grown, a staple variety, in fact, among the many of this class. He always grew a large stock of fine decorative and flowering plants and was a propagator and grower of very marked ability. He was president of the New York Florists' Club in 1905 and had then been a member for about 10 years.

The funeral will be held April 23 and members of Masonic Lodge Clan MacDonald and the New York Florists' Club will attend.

Lewis J. Risser.

Lewis J. Risser, proprietor of the Mosbaek Greenhouse Co., of Onarga, Ill., died in New York on the afternoon of April 13. Mr. Risser was born September 19, 1848, at Ashland, O. He went with his father's family to Onarga, Ill., about the year 1863. For 40 years he was engaged with his father, Peter Risser, in a general mercantile and grain business at that place. In 1892 he started in the corn canning business, for which he grew his own corn, having a farm of 3,000 acres planted to this crop. In 1904 he became interested in the greenhouse industry, and erected eight 100-foot houses for the growing of bedding stock, ferns, etc. This branch of the business is at present in charge of Chas. W. Reimers, but took its name from Ludwig Mosbaek, the former manager. At the time of his death Mr. Risser was president of the Western Packers' Canned Goods Association.

Mr. Risser was taken sick late in March, the trouble being diagnosed as ptomaine poisoning, which he thought came from eating some cold storage fish. It is believed that the attack of heart failure was brought on by the weakened condition in which this illness left him. On the day before his death he came to Chicago and late that afternoon left for New York. While walking at Franklin street and West Broadway at 1:30 o'clock he became ill and was removed to the Hudson street hospital, where he died a few minutes later. His body was taken back to Onarga, where he was buried. He is survived by his widow and one daughter. The business of the greenhouse department will be continued as before with Mrs. Risser, Anabelle Risser and John Bessier as sole proprietors and under the management of Chas. W. Reimers, formerly of Louisville, Ky., who has had charge for some time past.

Francis Calvert.

Francis Calvert, of Lake Forest, Ill., died April 14 at the ripe age of 79 years. Mr. Calvert was born at Eccelfechan, Dumfriesshire, Scotland, February 14, 1830, and came to America July 4, 1854. He spent two years in Tarrytown, N. Y., under John Wallace, on what is now the W. D. Rockafellow estate, and came to Chicago in 1856. He was married to Jane Wallace, who survives him, September 10, 1857. Mr. Calvert was in charge of the S. H. Kerfoot Lake View estate until March, 1859, when he removed to Lake Forest. Here he laid out the H. M. Thompson and D. R. Holt places and later he laid out the C. D. Bradley, John V. Farwell, C. B. Farwell and W. H. Smith places. He built his first commercial greenhouse in 1875. The present firm of F. Calvert & Son, consisting of the late Mr. Calvert and his son Edgar S. Calvert, was established in 1884. This firm was, we believe, the pioneer firm shipping to the Chicago wholesale market. The business will be continued by E. S. Calvert under the same style and along the same lines as in the past. The funeral took place from the Lake Forest home April 16. Five children survive.

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1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time.

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements.

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

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ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

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324 Dearborn St., CHICAGO

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ONE of our correspondents complains that his customers withhold many of their orders until Sunday morning and demand delivery on the shortest possible notice. Sunday work, happily for the store man, is on the decrease, but there seems to be no way out of it for the grower.

TWO very valuable papers appear in this issue, one on "Roses" by L. Reuter of Westerly, R. I., and the other on "Chrysanthemums" by Elmer D. Smith of Adrian, Mich. Both are growers of great practical experience and their papers contain carefully compiled data that should not only be read by cultivators but filed for future reference.

SOUTHERN CAPE JASMINES are unusually late this season.

OLD putty and paint may, it is said, be removed from glass that is to be used again by soaking the panes in a very strong solution of potash.

CHICAGO retailers report that individual plants sold better than baskets this Easter, a change, to some extent, from the experience of former years.

A CORRESPONDENT of the Garden says that Gruss an Teplitz can be raised from cuttings outdoors as freely almost as privets and that own-root plants are freer flowering than budded plants.

THE Bulletin of the New York Botanical Garden (Volume 5) is to hand, containing 150 pages of interesting matter referring to the garden and many contributions on various horticultural subjects.

ANNOUNCEMENT has been made that the New England states intend holding a joint show in Horticultural Hall, Boston, Mass., October 19-24, 1909. Wilfrid Wheeler, Concord, Mass., is secretary.

IN the issue of April 17, the first two cuts illustrating Elmer D. Smith's article on "Concrete Benches" were transposed, Fig. 1 representing the bottom sections, Fig. 2 the side. A glance at Fig. 3, page 587, will explain this.

CLEANING UP day has been fixed as May 1 in many cities of the United States and whenever our florist and nursery friends have an opportunity they should seek to aid such a movement in their home town or city.

Ladies' Society of American Florists.

Mrs. J. C. Vaughan, president of the Ladies' Society of American Florists, has appointed the following committees on resolutions: Mrs. Geo. Asmus, Mrs. E. F. Winterson and Mrs. P. J. Foley, upon the death of Mrs. P. J. Hauswirth, Chicago; Mrs. W. J. Vesey to appoint two associates to act with her upon the death of Mrs. D. E. Gorman, Williamsport, Pa.; Mrs. F. H. Traendly, Mrs. John Scott and Mrs. John V. Phillips, extending sympathy to E. V. Hallock's family. Will the above committees report to the secretary as soon as possible.

MRS. CHAS. H. MAYNARD, Sec'y.

New Trade Directory.

The seventeenth edition of the American Florist Company's "Directory of Florists, Nurserymen and Seedsmen of the United States and Canada" has just been issued, increased in size from 509 to 547 pages. With changes and additions there are approximately 800 new names and two new features appear for the first time, viz., a list of the leading florists, nurserymen and seedsmen in South America and a list of seed and bulb growers. The regular features revised to date include park superintendents, landscape gardeners, trade associations, leading cemeteries, horticultural societies, experiment stations, botanical gardens, postage rates, florists' clubs, foreign houses, catalogue firms, express rates, supply concerns, judging scales and statistics. The book is substantially bound and indispensable in every office connected with the trade in any way. The price is $3 per copy, postpaid.

Society of American Florists.

ADVISORY COMMITTEE.

President Valentine has appointed the remaining two members of the advisory committee for the Trade Exhibition at Cincinnati. The committee now stands: Albert McCullough (Chairman), R. Witterstaetter and E. G. Gillett.

W. N. RUDD, Sec'y.

April 16, 1909.

National Council of Horticulture.

The fifth installment of the press service of the National Council of Horticulture, contains articles on "How Not to Sow Seed," "How to Make a Lily Pond," "Cannas" and "House Ferns." The articles are, as usual, timely and practical and may be had free on application to James H. Burdett, 1720 W. One Hundred and Fourth place, Chicago.

Are Flowers A Necessity?

This question is frequently asked, apparently in all sincerity, by people who should know better and who ought to recognize the futility of it. While we would hardly go so far as to say flowers were as necessary as bread or raiment yet anyone who will take the trouble to look around him will see that, at the present day, they come very near to it. Literally, of course, without flowers we could not have either bread or raiment, there would be no wheat or other cereal for the former or flax or wool for the latter. But, in their decorative character, as distinct from their utility in manufactures, medicines and otherwise flowers are a necessity.

Look at their value for instance from an advertiser's point of view. Open the first newspaper or magazine that comes to hand and note how everyone uses flowers in some form or another. It may be only a flowered border or scroll, but more often the flowers will be a distinct feature of the advertisement. It doesn't matter what the advertiser wishes to sell, soap or shoes, furniture or provisions or any of the thousand and one necessities of life, the flowers are used to draw attention to them. The designer of carpets, of wall paper or of any choice materials in any class of merchandise seizes at once upon flowers as a never failing attraction to the eye of every man, woman or child. The craving for flowers is as natural as that for food and no one is exempt from it, no matter how depraved the character.

The earth in prehistoric times, before the advent of man, was probably destitute of flowers. In the older fossil formations there are no flowers, simply leaves, but by the time man in due course arrived on the scene, the atmosphere on the earth had been gradually so changed that it became suitable for flowers as well as the human race. In the great scheme evolved from the inner workings of natural forces flowers were not placed on earth until man was here to enjoy them; the two were contemporary. In the primitive ages they were necessary to man in many ways and the most savage and uncultivated races enjoyed them, some even going so far as to make gods of various species and worship them. Today the very fact that they are enjoyed in a more reasonable and almost a subconscious way, even by those who rail at the cost of the expensive kinds supplied by the florist, show that they are more necessary to the human race than ever before. And they always will be a necessity.

The Boston Orchid Exhibition, 1910.

The schedule for the great exhibition of orchids that is to be held in the fine hall of the Massachusetts Horticultural Society, May 26-30, 1910, has been published. The splendid prizes offered will doubtless have the effect of bringing out a magnificent show of these plants and should prove of great value in popularizing orchid culture all over the country. While orchids are being more and more grown by the trade for cut flowers it cannot be said that private collections of orchids are advancing with the same rapidity. Should this exhibition serve to interest affluent patrons of gardening and popularize them also with the amateurs, it will benefit horticulture generally by widening its scope in both respects.

The grand prize is offered for a group of orchids in bloom arranged for effect, and consists of $1,000 in cash and a gold medal, the second and third prizes being $500 and a silver medal and $250 and a bronze medal, respectively. Such offers should bring out the best from all parts of the world, as there are many other good prizes. Regarding the European growers it is perhaps a little unfortunate that the exhibition will just about clash in date with the great show of the Royal Horticultural Society in the Temple gardens in London, Eng. The reason in each case, of course, is the fact that at that time orchids are at their best and more species are due to flower than at any other time. A good point about the schedule is that the points that will be allowed for judging in each class are clearly set forth and exhibitors can see at a glance what they must aim at in order to be successful. Such a spirited attempt by this world-famed society to put orchids on a higher plane in America is deserving of the very hearty support of both trade and private growers and we trust that it will be rewarded with a magnificent exhibition.

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibition le Jardin des Tuileries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine, France.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. H. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scot.

Meetings Next Week.

Baltimore, Md., April 26, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Cleveland, O., April 26, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

Hartford, Conn., April 26, 8 p. m.—The Connecticut Horticultural Society, County building.

Lake Forest, Ill., April 28, 8 p. m.—The Horticultural Society of Lake Forest, Council Chamber, City Hall.

Lake Geneva, Wis., May 1, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

San Francisco, Calif., May 1.—Pacific Coast Horticultural Society.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By an all-around grower, commercial or private place, single, 17 years experience. Key 851, care American Florist.

Situation Wanted—A young man, college graduate with experience in landscape gardening and park work desires position with landscape firm. Key 853, care American Florist.

Situation Wanted—As working foreman of roses, carnations, chrysanthemums and violets; good references; married; give full particulars with wages please. Address H. M., care 234 E. Madison St., Lancaster, Pa.

Situation Wanted—By young married man as grower of carnations, 'mums, vegetables and bedding plants; either commercial or private and near Philadelphia; 10 years' experience; best of references; at liberty June 1. Address Key 828, care American Florist.

Situation Wanted—By an expert propagator and grower of general line of cut flowers and pot plants; German; ten years in Germany, six years in this country; can take charge; sober and steady; only good place wanted; married; 29 years old. Address B. KAEZOR, 332 Mettler St., Toledo, Ohio.

Situation Wanted—As foreman or manager by a young married man age 35; good business education; 17 years' experience in all departments of the business, roses especially; now employed on one of the large places near Chicago; a permanent place with good wages desired. Key 846, care American Florist.

Situation Wanted—Competent bookkeeper; open to engagement in seed nursery or floral establishment; has had practical experience in horticultural line and speaks several languages. Could assist with other work besides bookkeeping if necessary; German, age 35. Address Key 842 care American Florist.

Help Wanted—Handy young man as apprentice. DOUGLAS BLVD. FLORAL CO., 425 Douglas Blvd., Chicago.

Help Wanted—A sober, industrious man, with knowledge of perennials and of handling hotbeds; Swede preferred; good wages. MOSBAEK GREENHOUSE CO., Onarga, Ill.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address Key 849, care American Florist.

Help Wanted—A competent young man to do general greenhouse work on retail place; nice place; county seat; near Pittsburg, Pa.; Catholic preferred. Key 844, care American Florist.

Help Wanted—An all-round greenhouse man, single, who understands designing; carnations, 'mums, pot plants and general line of plants; sober, give reference also state wages with board and room. J. M. NUSSBAUMER, San Angelo, Texas.

Help Wanted—Reliable man to grow general stock, carnations, 'mums, roses, potted stuff; house now being built, 22x140; must be sober, reliable and capable of taking entire charge; position permanent; give references and salary expected in first letter; place ready May 15. HOSKINS' FLORAL CO., Bismarck, N. Dak.

For Sale or Rent—Greenhouses, close to Rockford, Ill.; 10,000 feet of glass; lot 120x165; 6-room dwelling house on premises; plant just rebuilt after fire. No stock. Address EDWIN DEMPSEY & CO., Rockford, Ill.

For Sale—Like new two Hitchings greenhouse boilers, Nos. 22 and 23; capacity, glass area 450 feet and 675 feet. Price, $180.00. Address WILLIAM LE BAW, Plainfield, N. J.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

For Sale—5 greenhouses, 6,000 feet of glass, in perfect order, built 3 years, stocked with vegetables and bedding plants; a rare opportunity for a vegetable grower; 4 acres of land; ready sale for everything you can raise; will be sold at a bargain; owner got to leave city; easy terms; location, Okla. Key 850, care American Florist.

FOR SALE BEES

Full colonies, $7.50; Three frames of bees with queen, $5.00.

W. C. DAVENPORT, 4166 Central St., Chicago.

For Sale.

Good retail store in one the best business cities of the middle west. Now clearing $2500 annually, and showing an improvement every year. Fine opportunity for a pushing man. Good reasons for selling. Address

Key 852, care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Men for Outdoor Wook.

We want two good men experienced in the planting and trimming of shrubs and in general jobbing work around small private places. Give full particulars, including experience, age and wages expected. Address

Key 854, care American Florist.

Good Opportunity.

A chance for an ambitious young or middle aged man to get into business for himself. Half interest in a business which can be made to pay $150.00 per month by a hustler and grower. 'Mums, carnations, roses and pot plants. Trade established. If interested write giving experience, reference, etc., to

A. J. SEIDERS,
Route 4. **1106 W. 38th St., AUSTIN TEXAS**

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y.

NOW READY

Trade Directory

FLORISTS, NURSERYMEN, SEEDSMEN

THE NEW 1909 EDITION

—PRICE, $3.00 POSTPAID.—

AMERICAN FLORIST CO., 324 Dearborn St., CHICAGO.

New Crop of Ferns
FANCY AND DAGGER
Log Mosses, Natural and Perpetuated,
Lyrata, (The New Green).
E. A. BEAVEN,
EVERGREEN, ALA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

New Crop Ferns
FANCY and **DAGGER** ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
EVERGREEN, ALA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.
Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Providence.

EASTER TRADE FAIR.

The Easter trade of this city and vicinity was not as large as that of last year. Competition in plants was acute; the trade was overdone by the growers, and the latter sold their goods to all sorts and conditions. The best plants sold well, nothing being too good or too high for the discriminating purchaser. Azaleas were first in call, with plenty of demand at $2.50-$8. Fine Vervæneana were scarce, but Prof. Wolters filled in nicely in the large sizes and Van der Cruysen was the chief in evidence, with a few splendid Simon Mardner to round out the show. Few hydrangeas were seen. Easter lilies were cleaned up at 25 cents per flower. The supply was not as large as in 1908. In pan stock we noted a steady call for red tulips. Daffodils seem to attract the cheap buyer. Marguerites in 6-inch pots sold well. Taken altogether, the plant trade was one-quarter to one-half less than last year, according to the florist and his location. Carnations were in very poor call at 60 cents to $1 per dozen, with a few going at $1.25. Enchantress and Winsor were good. The crop was not large. Bride, Bridesmaid, Killarney, Chatenay and Richmond were in abundance and at scarcely any raise from regular rates. At $1.50 to $3 the public obtained dozen lots that were duly appreciated, Richmond especially finding favor. While the business was not within 15 to 20 per cent of last year's call for violets, still they were in large demand and the chief flower of commerce; $2 per 100 was the prevailing figure for good quality Princess. The weather on Thursday was a gale of dust, Friday was heart-breaking rain, Saturday was clear and cold, and Sunday was a dream of a day. M. M.

DAYTON, O.—H. H. Ritter reports sales at Easter as one-third greater than those of last year at the same prices. Plants were scarce but there were plenty of cut flowers though all sold out.

OMAHA, NEB.—Sales with J. H. Bath showed a slight increase over those of last Easter at similar prices. The cut flower supply and demand were about equal but there were more plants than needed with the exception of lilies which were in great demand.

Fischer's Grand Freesia Purity
The Unequalled, White Decorative Freesia.
Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have many more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed, avoiding all danger of mixture, as **Purity** does not come true from seed. Dealers getting getting their stock from me will always be sure of getting the purest stock.
For Sale by the Leading Seedsmen.
RUDOLPH FISCHER, San Gabriel, R. F. D., Calif.

Fancy and Dagger FERNS $2.00 per 1000
Discount on large orders.
New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs.. 8.50
Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway. All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.
15 Province St. and 9 Chapman Place, **BOSTON, MASS.**
WHOLESALE COMMISSION FLORISTS
Hardy Cut Evergreens and Florists' Supplies
We have the stock and can fill all orders, large or small.
FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Send Advertisements Early for Best Display.

Maids and Brides

Richmond, Killarney and Beauties.

EXTRA FANCY CARNATIONS

Big Crops. **PRICE LIST.** **Low Prices.**

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00
24 to 30-inch	2 00
20-inch	1 50
15-inch	1 00
12-inch	$ 50 to 75

KILLARNEY AND RICHMONDS.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00

BRIDES, MAIDS AND PERLES.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00
Short Roses, our selection, in lots of 500 or more, per 100,	2 00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100,	$3 00
Fancy white, good stock, per 100	3 00
Fancy pink, good stock, per 100	$2 50 to 3 00
EASTER LILIES, per doz. $1 50; per 100	10 00
LILY OF THE VALLEY, per 100	2 00 to 4 00
SWEET PEAS, per 100	50 to 1 00
ASPARAGUS SPRAYS, per 100	2 00 to 4 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, per doz	1 50 to 2 00
ASPARAGUS STRINGS, per string	50
ADIANTUM, per 100	1 00
GALAX, bronze, per 1000	1 50
GALAX, green, per 1000	1 50
FERNS, per 1000	2 50

BUY DIRECT OF THE GROWERS

Bassett & Washburn,

Store and Office: 76 Wabash Ave. **CHICAGO.** Greenhouses: HINSDALE, ILLINOIS.

EASTER TRADE REPORTS.

TOLEDO, O.—Geo. Heinl reports an increase of 10 per cent in sales at Easter at prices about the same and plenty of stock. Roses in pots and cut sold poorly, but violets sold well.

GALENA, ILL.—Ben Vandervate has just closed the most successful flower show he has ever held here. Easter lilies and flowers of all kinds were disposed of at a rapid rate during the show.

POMONA, CALIF.—O. Roessner reports Easter sales as about the same as last year, with no better prices and plenty of stock. All plants sold well and carnations were the best property in cut flowers.

BUFFALO, N. Y.—S. A. Anderson reports no increase in sales at Easter, the weather being very bad. Prices were low and stock plentiful in cut flowers. There were just enough plants to meet the demand, but no more.

BERKELEY, CALIF.—E. M. Sanborn reports a drop in Easter sales of about 10 per cent from those of last season, with lower prices on some goods. All flowering plants sold well, lily of the valley and Easter lilies being most in demand as cut flowers. The best of the business was crowded into the last two days.

LOS ANGELES, CALIF.—The Ingleside Floral Co. reported a business almost double that of last year at Easter at similar prices and plenty of good stock. Easter lilies and spireas in pots sold well but lily of the valley made up was not so popular. Carnations sold best in cut flowers. All other retailers report good busines and the fakirs were out of it for once.

ROCKLAND, ME.—H. H. Billings reports a 25 per cent increase in sales at about the same prices as last Easter. There were plenty of flowers and plants and a good demand for jonquils, carnations, lilies and azaleas.

MOBILE, ALA.—Sales at the Chatogue Greenhouses were about the same as last year, but prices all through the season have been low. Wholesale orders for cut flowers had to be refused to all but regular customers. Lilies were scarce.

LEAVENWORTH, KANS.—The Easter business with R. C. Hinz showed an increase of about 10 per cent under similar conditions of prices and supply. In plants lilies and those of a cheaper grade sold best, carnations and bulb stock in cut flowers.

WILMINGTON, DEL.—H. P. Potter reported sales at Easter as about 25 per cent greater than last year, with prices the same and plenty of stock in all lines. Fancy plants sold well, roses a little slow, also violets in cut flowers, but as everything sold out it was hard to determine which flowers sold best.

AKRON, O.—The Akron Floral Co. reports a 25 per cent increase in sales over last Easter. Pot plants brought better prices, but cut flowers were cheaper. Easter lilies were scarce and dear owing to diseased bulbs, and cut bulb stock sold well. This company carried a very large and extremely varied stock in all lines.

ALBANY, N. Y.—Business with Meany & Tracey at The Rosery was 10 per cent better at Easter than that of a year ago at similar prices. Sweet peas, lily of the valley and orchids were slow, but all other stock was plentiful. Bulb stock, both in pots and cut, was slow sale, but pot azaleas, lilies and rhododendrons sold well. Medium-priced hampers and baskets sold better than ever before.

"Give Us a Trial. We Can Please You

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

TAMPA, FLA.—The Tampa Floral Co. reports an increase of 10 per cent in sales over those of last Easter at prices a little lower and plenty of stock. In plants, palms and foliage plants were leaders, roses, carnations and violets all selling well in cut flowers.

KANSAS CITY, MO.—The Alpha Floral Co. reports a 20 per cent increase in sales this Easter at considerably better prices and enough of everything to go around. Easter lilies were the best sellers in plants, next spireas, hydrangeas and Crimson Rambler roses. White Rambler was not saleable in plants, nor were colored sweet peas, but other lines of cut flowers sold well. A great deal of funeral work materialized around the holiday and many of the helpers had to work all night getting it out. Twenty-seven hands were employed, many of them a week beforehand, and even at that there was much difficulty in getting the work out on time.

St. Louis.

MARKET OVERSTOCKED.

The wholesale houses on Saturday were all heavily loaded up and the increase in the supply of everything was apparent. The weather has become very warm; carnations, good stock, could be obtained for $1 per 100 and extra fancy for $1.50-$2. Roses could be bought at low figures. Violets have at last seen their day and quite a few of the growers have quit picking. Sweet peas are increasing and prices are on the downward trend. Quite a few callas and Lilium Harrisii are still in; lilac is expected next week as the warm spell will bring it on quickly.

NOTES.

Crowds gather daily at the Missouri Botanical Garden to get a glimpse of the tulips which are on exhibition all week free to the general public. All varieties are gorgeous and there is a great variety of plants including magnolias and vanilla in bloom. In one of the greenhouses is one of the finest specimens of this orchid in America. These form a great attraction.

The opening of the American League baseball park furnished quite a little business, several large pieces were sent to the management and individual players. Quite a number of advance orders were received for the opening of the National League season next Thursday.

Park Commissioner Scanlon decorated the chamber when Mayor Kreisman took his seat; the decorations were very fine. The retailers were busy generally, large quantities of cut flowers going to the inauguration.

C. A. Kuehn received his first consignment of outdoor white and purple lilac from southern Illinois. It brought from $3 to $5 per 100 sprays.

We regret to announce the death of W. J. Pilcher father of W. J. Pilcher of Kirkwood. The funeral took place on Saturday.

W. F.

Cincinnati.

TRADE VARIABLE.

Business up to last Saturday was all that could be expected; prices remained firm and the wholesale houses sold out the stock every day. There were no gluts of any flowers, in fact there was a shortage in some lines principally American Beauty roses. Flowers were fine, the delightful weather having a tendency to make them hard and no complaints were heard about the keeping qualities. Saturday, however, the weather began to warm up and on Sunday it was hot. On Monday immense quantities of all kinds of stock began pouring into the commission houses from all quarters and it was an utter impossibility to move one-third of it. But this is to be expected as it has been a long time since we have had a glut and no doubt the time has arrived.

NOTES.

J. A. Peterson took a day off Monday and came down to the city on a little business. At present he is busy putting in cement benches on the Wittbold system and is very well satisfied as far as he has gone. He contemplates changing all his wooden benches to this system as they wear out. Mr. Peterson claims the cement benches to be cheaper than wood. For instance on a bench 12x108 feet, he used $11.70 worth of cement. This, however, does not include posts. The sand and ashes used in construction was all old material having been used previously in the propagating bed and on the benches for plants. The wire netting was also old material which was used years ago and had been stored away. Mr. Peterson is very anxious to have his brother florists call and inspect his benches and form their own opinions. The latch string is always out at this place.

At the meeting of the Florists' Society, Saturday evening, about 15 members were present. All committees in charge of S. A. F. affairs reported progress and Wm. Murphy, Dick Witterstaetter, Gus Adrian, E. A. Forter and J. W. Rodgers were appointed a committee of five to induce more members from this city to join the national society. The next meeting takes place Saturday evening, May 8, and we hope to have more members present.

Julius Dillhoff, representing Schloss Bros., New York, was in town the past week with a nice line of ribbons. He reports business on the increase all along the line.

A. J. Horning is the name of the party who purchased the greenhouses from Mrs. Wm. Cunningham, 935 Ludlow avenue, Clifton.

K. Wolff has opened a retail store at 1631 Western avenue.

S.

SPRINGFIELD, MO.—Had there been more stock available W. A. Chalfont says he would have sold more, but as it is sales were equal at Easter to those of any other season. Everything in sight was sold out, two large funerals helping the clearance.

REINBERG'S ROSES

Outlast Any Others

AMERICAN BEAUTIES

	Per doz.
Long Stems	$4.00
30-inch stems	3.00
24-inch stems	2.00
20-inch stems	1.50
15-inch stems	1.00
Short stems	.75

	Per 100
Richmond	
Select	$ 6.00 to $ 8.00
Medium	3.00 to 5.00
Killarney	
Select	6.00 to 8.00
Medium	3.00 to 5.00
Mrs. Marshall Field	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid, Bride.	$3.00 to 6.00
Chatenay	3.00 to 8.00
Ivory	3.00 to 6.00
Perle, Sunrise	
Select	3.00 to 8.00
Roses, our selection	3 00

CARNATIONS

$2.00 to $2.50 per 100.

Easter Lilies	$1.50 per doz.
Callas	1.50 per doz.

	Per 100
Tulips,	$4.00 to $5.00
Violets,	.75 to 1.00
Valley,	3.00 to 4.00
Daffodils,	3.00 to 4.00
Asparagus Plumosus Extra quality, per bunch	50c to 75c
Fancy Ferns Per 1000	$3.00

Give your customers roses that keep well and you will keep your customers.

PETER REINBERG

35 Randolph St., CHICAGO.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

— CONSIGNMENTS SOLICITED. —

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Wholesale Flower Markets

ST. LOUIS, April 21.

Roses, Beauty, long stems	2 50@ 3 00
" " medium stems	1 00@ 2 00
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 8 00
" Ivory	2 00@ 8 00
" Killarney	2 00@ 8 00
" Mrs. Potter Palmer	2 00@ 6 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 8 00
" Alice Roosevelt	2 00@ 8 00
Carnations, fancy	2 00@ 2 50
" common	1 50@ 2 00
Lily of the Valley	3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $2 50	
Smilax	12 50@15 00

CINCINNATI, April 21.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 6 00
Carnations	2 00@ 4 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb, 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, April 21.

Roses, Beauty, special	3 00@ 4 00
" " fancy	2 00@ 3 00
" " shorter	50@ 1 00
" Bride, Bridesmaid	4 00@10 00
" Killarney	4 00@10 00
" Richmond	4 00@10 00
Carnations	1 50@ 3 00
Callas	5 00@10 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	12 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Violets	50@ 75
Asp. Plumosus strings, each	40@ 50
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	15 00

MILWAUKEE, April 21.

Roses, Beauty	1 00@ 4 00
" Bride, Bridesmaid	3 00@ 8 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 8 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodils	2 00@ 3 00
Lilium Giganteum	10 00@12 50
Lily of the Valley	3 00
Narcissus	2 00@ 3 00
" Trumpets	2 00@ 3 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, "	35
Ferns, Common, per 1000	2 50
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	1 00

	Per 100
Killarney, select	$ 8 00
Medium	$3 00 to 5 00
Mrs. Jardine, select	8 00
Medium	3 00 to 5 00
Uncle John, select	8 00
Medium	3 00 to 5 00
Bridesmaid and Bride, select	8 00
Medium	3 00 to 5 00
Chatenay, select	8 00
Medium	3 00 to 5 00
Richmond, select	8 00
Medium	3 00 to 5 00
Carnations, fancy	3 00
Good	1 50 to 2 00
Easter Lilies, short	10 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Violets	1 00 to 1 50
Valley	3 00 to 4 00
Daffodils	3 00 to 4 00
Callas	12 00 to 15 00
Asparagus Plumosus Extra quality, per bunch	75c
Fancy Ferns, per 1000	$ 2.50

All other stock at lowest market rates. Prices subject to change without notice. No charge for packing.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Winterson's Seed Store

Nurserymen, Plantsmen, Seedsmen and Florists' Supplies.

45-47-49 Wabash Avenue, Long Distance Telephone Central 6004. **CHICAGO.**

Just received another Carload of Boxwood

which we offer at following prices, (subject to being unsold upon receipt of order.)

PYRAMID	Each	Pair
18 to 24-in	$1 00	$1 65
24 to 30-in	1 35	2 50
30 to 36 in	1 85	3 50
36 to 42 in	2 40	4 40
42 to 48-in	2 90	5 40
48 to 54-in	3 75	6 50

BUSH FORM	Each	Pair
18 to 24 in	$1 00	$1 75
24 to 30-in	1 35	2 50
30 to 36 in	2 50	4 50
36 to 42-in	3 50	6 50

If You Are Interested In CANNAS

Write us before you place your orders We can quote you low prices in quantity. We have the goods.

Tuberoses, Caladiums, Gladiolus,

Are now ready for shipment. We carry a full stock of leading grades of above.

REMEMBER We carry everything a florist uses in supplies

Our Catalogue Free for the Asking.

Chicago.

GLUT OF ROSES IN MARKET.

There have been big supplies of stock of all sorts in the market the past week. The glut of roses was particularly noticeable, all the growers seeming to be in crop together, which is only natural at this time of year. All varieties are showing flowers of excellent quality and the poorer ones go begging for customers at any price. American Beauty roses are selling well and are of good grades. Carnations are little more than equal to the demands of the market; the fact that some growers are off crop helps out the balance on this item. Bulbous stock is not moving any too well, more outdoor flowers being seen again. Outdoor lilac is among the offerings. A novelty for this time of year are small yellow and pink chrysanthemums. The yellow were forced last year and found to meet with some little favor and this year the pink (Grunewald) have been added.

NOTES.

Samuel Muir's fine store on Michigan avenue is a remarkably fine sight now. Excellent plant stock and baskets very artistically arranged are the principal attractions and the genistas are especially good and make a fine feature. Mr. Muir reports a very satisfactory Easter business at both stores in all lines. In the greenhouses adjoining the Michigan avenue store the stock is in excellent order, fine batches of Begonia Gloire de Lorraine, small ferns, Dracæna fragrans and others, crotons and, in fact, all the popular decorative and flowering stock, being seen. Bedding stock is coming along in great shape, the large blocks of geraniums such as S. A. Nutt, Poitevine, Mrs. E. G. Hill and the beautiful semi-double pink Jean Viaud looking remarkably well.

Bassett & Washburn have been exhibiting a vase of E. G. Hill's new Rose Princess, a summer blooming sort of a beautiful shade of pink. The flower is nearly as large as an American Beauty and borne on a strong stem with fine, heavy foliage. If it can be generally grown as fine as the specimen vase shown, it will be a great addition to the summer roses. Its keeping qualities seem to be of the best, as the flowers were shipped Saturday and on Monday showed up as well as ever. Bassett & Washburn have decided to give it a trial in their greenhouses.

The Chris Pfeiffer Boiler Co., 66-68 Michigan street, Chicago, has just put out an attractive booklet calling attention to that firm's fire box boiler. This concern is by no means a new one, having been established in 1871, and incorporated in 1900. During the past 35 years, or more, a studied effort has been made to establish a reputation for a reliable product and general square dealing. But it is only recently that any special effort has been made to meet the particular requirements of the greenhouse trade.

George Mugler, secretary of the west park board of commissioners, appeared before the legislature at Springfield April 14 in connection with a bill prepared by the commissioners. This bill asks that they be authorized to issue $1,000,000 in bonds for the establishment of several more parks.

The A. L. Randall Co. is receiving a novelty in the shape of yellow and pink chrysanthemums. It will be remembered this firm had yellow ones last spring, and so well were they liked that the same grower decided to force them again this season and added a pink one.

The Kroeschell Bros. Co. last week started one of its large boilers all the way across the continent, having an order from a California vegetable grower for a complete heating outfit, including this firm's new piping system.

A trip of inspection over the territory included in the proposed forest reserve on the borders of the city and to several of the small parks was made Tuesday afternoon by a delegation from the state legislature.

Arbor day is April 30, according to Governor Deneen's proclamation and appropriate programmes to be observed by the school children on that day are now in course of preparation.

The Lord & Burnham Co. will open a branch office in the Rookery building, corner La Salle and Adams street, on May 1. It will be under the management of Geo. Sykes.

J. Shattls is now associated with his brother in taking care of the local trade of Lion & Co., of New York. M. Shattls left Monday for a five weeks' business trip.

V. Bezdek, of Wilmette, is putting up an addition of six new houses, for which the A. Dietsch Co. is furnishing the material.

The death last week of Francis Calvert, of Lake Forest, is noted in our obituary column elsewhere in this issue.

The J. B. Deamud Co. reports some large orders for wild smilax, which this firm can still furnish in quantity.

Winterson's Seed Store is in receipt of a carload of bay trees and reports two more carloads on the way.

Geo. Asmus is suffering from an aggravated case of primula poisoning, as is also Mrs. John Bruchner.

W. N. Rudd, who has been confined to his house the past week with the grip is better.

The Poehlmann Bros. Co. has made a start in the growing of orchids.

Visitors: Ed. Roehrs, Rutherford, N. J.; W. Billingsley, Indianapolis, Ind.; James Schols, Jr., Grand Rapids, Mich.; Otto Benthey, New Castle, Ind.

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

Illinois State Fair.

The department has secured for next fall's exhibit at the Illinois state fair, Springfield, all of the rotunda of the Dome building, a circular space containing about 13,000 square feet of floor space, exclusive of the main aisle. There is a premium of over $2,700 offered in this department. The walls will be well decorated and every facility offered for making the finest display ever shown in the state outside of the Coliseum in Chicago. The superintendent of the department is arranging for private space for the florists to make up their artistic designs and pieces in the building, and is also trying to arrange for cooling rooms.

GEO. ASMUS.

SPRINGFIELD, ILL.—Albert Friedley, grower for Miss Belle Miller, is sick.

NILES CENTER, ILL.—The Blameuser Floral Co. has been incorporated with capital stock $25,000. The incorporators are Edward H., Mary and Emil C. Blameuser.

MARION, ILL.—Great damage was done here by a tornado April 6, and at Pittsburg, six miles away, two persons were killed. The Copeland greenhouse was badly damaged.

PEKIN, ILL.—Geo. A. Kuhl has sent out great quantities of flowering and foliage plants this season, his reputation among the trade in far-off western points being as great as nearer home.

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

"THE BUSIEST HOUSE IN CHICAGO"

Everything in Seasonable

Cut Flowers in Quantity

Let us estimate on your large orders.

J. B. DEAMUD CO.
51 Wabash Ave., Chicago

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO, April 21.

Roses, Beauty, extra select		4 00
" " 30 in		3 00
" " 20 to 24 in	1 50@	2 00
" " 15 in		1 00
" " 12 in		75
" " Short		50
		Per 100
" Bride, Bridesmaid, select	5 00@	8 00
" " medium	3 00@	5 00
" Chatenay, select	5 00@	8 00
" " medium	3 00@	5 00
" Golden Gate, Uncle John	3 00@	8 00
" Kate Moulton	3 00@	8 00
" Killarney, select	5 00@	8 00
" " medium	3 00@	5 00
" Mrs. Marshall Field, select	6 00@	8 00
" " medium	4 00@	5 00
" Perle	5 00@	8 00
" Richmond, extra select	6 00@	8 00
" medium		5 00
Carnations	2 00@	4 00
Callas, per doz.	1 50@	2 00
Cattleyas, per doz.	6 00@	7 50
Daisies	1 50@	2 00
Gardenias, per doz		6 00
Irises	6 00@	8 00
Lilium Harrisii per doz.	1 50@	2 00
Lily of the Valley	3 00@	4 00
Pansies	1 00@	1 50
Sweet Peas	60@	1 25
Tulips		3 00
Violets, single	50@	75
" double	50@	75
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	6 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		3 00
Galax, green, per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50-lb. case		5 00

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WEILAND AND RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders ——given prompt attention.——
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

The Benthey - Coatsworth Co.

35 Randolph St. **Wholesale Florists** CHICAGO.

New York.

MARKET OVERSTOCKED, PRICES LOW.

The past week showed the usual reaction that follows a great Easter trade. To add to this, about the middle of the week, the weather was very bad. On April 14 there was a continuous downpour of rain and "nothing doing" was the watchword. The increase in the volume of stock arriving, was marked and there was a general decline in prices. American Beauty roses dropped to 25 cents for specials and they were slow at that. Cut Lilium longiflorum has been coming in large lots and five cents was the best offering the last of the week. That however, is no surprise to those who follow the market. Orchids and lily of the valley, not being plentiful, are holding up better than any other stocks. Sweet peas are very plentiful. One wholesale firm on Twenty-eighth street, sold 15,000 bunches to one man April 17 and there were many others. The tea roses are more plentiful as are carnations and the prices of both are on the decline. Violets have been going at all sorts of prices, but will soon be over. The weather of the last of the week was fair and warm and the prospects are good for a great influx of stock throughout this week. Saturday was a very good business day, and though no high prices were realized, a great amount of stock was moved. There is a lively trade in geraniums, pansies and "button" daisies for planting out.

NOTES.

Geo. Sykes, for many years connected with the Lord & Burnham Co., will go to Chicago May 1 and open an office in the Rookery building, La Salle street, where the company he represents will hereafter have western headquarters. There is not a big or little thing about greenhouse building, from the furnace to the peak of the roof, but Mr. Sykes knows all about it.

Mrs. W. C. Krick and her sons have recently made great improvements in the machinery of their factory for the manufacture of immortelle letters, plant stands and pot handles and hangers, 1166 Greene avenue, Brooklyn. While considerable expense has been entailed, the ultimate object is to reduce the cost to the consumer.

A garden on an ocean liner is among the new things in horticulture. It is said that one of the steamers of the Hamburg-American line, when it next sails from New York, will carry a small portable greenhouse on deck in which lettuce and other small vegetables will be grown for the table.

Robert Craig came over from Philadelphia early in the week and was storm-bound. After the clouds rolled by he visited some of the leading growers of this vicinity.

The new wholesale flower market that A. L. Young proposes to start at 46 West Twenty-eighth street is one of the largest and finest stores on the block.

N. C. Schreiner has been receiving large consignments of arbutus from Maryland and sales have been good.

Frank Millang, who has been very low with pneumonia, is, we are glad to state, rapidly improving.

The Julius Roehrs Co. will install a Kroeschell boiler this season.

A. J. Guttman and M. W. Kempner have formed a partnership.

Buffalo.

EVERYBODY SATISFIED.

The retailers can well feel satisfied with the trade as a whole. The cut flower trade was no better than last year with the exception of violets, lily of the valley and orchids, which showed an increase. Plants were good and sold well. Made up baskets were as much in demand as in other years and more tastily arranged. Roses are not called for as much as they were, no matter how they are arranged. Baby Ramblers, azaleas and lilies had first call, hybrids and tulips coming next, with lilacs in a class by themselves. Hyacinth pans, spireas and other bulb stock is handled in limited quantities by the down-town stores owing to their being so easily broken or showing the effects of not being watered. Hydrangeas were good and had a ready sale. Trade before and since has been very good.

NOTES.

The Florists' Club had its first meeting under the new administration and bids fair to have a busy time. The committees appointed by President Slattery will try and aid him in increasing the membership and providing entertainment for the club.

The Italian garden of J. Benson Stafford had a nice trade as did the Lenox Flower Shop, both having had their first Easters. A fire near the latter on Friday flooded the cellar but fortunately did not hurt the stock.

S. A. Anderson had every reason to be happy for Easter as his advance present was a young daughter which arrived on April 1. Baby Elizabeth is doing fine and expects to call at the store soon.

There are no removals this year, and Arthur Beyer will be in his new location by May 1.

BISON.

Baltimore.

EASTER TRADE GOOD.

The Easter market proved one of the most satisfactory for several years. There was, as a rule, ample supplies of nearly all kinds of stock, and the weather had been such as to bring it out ready for delivery in good shape, whilst buyers were abundant, and the best of feeling prevailed all down the line of producers and consumers. Warm and sunshiny weather had prevailed until a day or two before the great vernal holiday, but on Friday and Saturday the temperature fell and cold, sharp winds played havoc with stock which was exposed outdoors. The market men suffered greatly in this direction, the stores of course being exempt from this trouble. Stores never were more handsomely decorated, and the moving stream of passers-by enjoyed to the utmost the choice productions which filled the windows. One retailer on N. Charles street (Seidepark board of cimmissioners, appeared witz) changed his color scheme each day, one day having white, another yellow, purple, red, etc. Wm. J. Halliday invited visitors who merely wanted to see the flowers to inspect his store. More advertising was done in the trade probably than ever before, especially in the use of the newspaper mediums, though some showed a preference for the trolley cars. White carnations were decidedly short of supply, and there were just about lilies enough to go around. Violets were abundant in the hands of the curbstone merchants, but the bulbous stock from the south seemed to have been ahead of the holiday, and was not conspicuous by its abundance. At the Exchange on Saturday evening practically everything was cleaned out, and the results for the week, according to John J. Perry, the manager, show sales largely in excess of last year. The week following Easter saw many weddings, and there was good inquiry for suitable flowers. The most expensive preparation from the point of view of florist and decorator was the Tailer-Brown wedding. The ceremony was performed in the private ball room of the bride's home amid a great profusion of plants and cut flowers. Many of the palms, etc., and lilies came from the greenhouses on the family place in the suburbs, but Samuel Feast & Sons had general charge of the decorations.

Henry Eberhardt, long established near Catonsville, and having a stall in the Lexington market, died the week before Easter. The business is being carried on by his son.

S. B.

Madison, N. J.

Rose night, April 14, brought out a large attendance at the Morris County Gardeners' and Florists' Society's club rooms. There were many exhibits of merit in cinerarias, gloxinias, carnations and orchids, but the rose was queen as the following report will show. The exhibit of White Killarney from the F. R. Pierson Co. was magnificent and was awarded a vote of thanks, as it received certificate of merit here last October. My Maryland, from S. J. Reuter, was fine and was awarded certificate of merit. Vases American Beauty from Brant, Hentz Floral Co. and J. Ruizicha were awarded cultural certificates. Vases of Bride, Bridesmaid, Richmond and Killarney by J. Ruizicha were awarded a cultural certificate. Vase of Bride, by Geo. Harvey was given honorable mention. Vase of Bridesmaid by Wm. Falconer was given honorable mention. Vase of Killarney by Mrs. G. F. Stone (Ernest Wilde, gardener) was given a cultural certificate. Vase of Richmond by C. A. Work (Wm. Muhlmichel, gardener) was given a cultural certificate. Vases of Killarney, Bride and Bridesmaid by Wm. G. Badgley were given a cultural certificate. Six pots of gloxinias from C. B. Hedden (Alex. Michel, gardener) were given a cultural certificate. H. B. Vyse, gardener to A. R. Whitney, won the Bunyard special prize of $5 with a fine specimen of Cineraria stellala. This makes the second time Mr. Vyse has won this annual prize.

Wm. G. Badgley, who was solicited only a week or so before the meeting, stepped in the breach and gave us a fine paper on the rose. It was full of good common sense. A long after discussion took place and the rose men enlightened us on many points not well understood. John R. Mitchell, Wm. Muhlmichel, Joseph F. Ruizicha, David Falconer and Chas. H. Totty did most of the talking. One interesting fact brought out was that American Beauty is not doing well on cement benches. It is claimed that this rose absorbs too much of a deleterious element from the cement. Anyhow they are next to worthless with a number of growers—a timely warning to others. A rising vote of thanks was given Mr. Badgley for his able effort. Among the visitors were Dr. W. A. Robbins, H. A. Bunyard and our past-president, John Heeremans, who now resides in Palmetto Bluffs, S. C., where he has charge of R. T. Wilson's extensive estate. Mr. Heeremans presented a box of habanas to fumigate the roses with. Mr. Bunyard, who is chairman of the outing committee of the New York Florists' Club, solicited the attendance of members of this club to the outing. It was decided to hold our next fall show on October 27-28, in the assembly rooms.

E. R.

RIDGEWAY, PA.—The Mountain Park Greenhouse Co. will build a new greenhouse on West Main street.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave. & W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.
Desirable Wall Space to Rent for Advertising.
V. S. DORVAL, Secretary.

J. K. ALLEN,

Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

Traendly & Schenck,

WHOLESALE FLORISTS,

44 West 28th Street, New York City.
Phones, 798 and 799.

HENSHAW & FENRICH

WHOLESALE FLORISTS

44 West 28th St., Phones: 325 and 5583 Madison Square. NEW YORK

Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS

J. J. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square.
39 West 28th Street, NEW YORK

Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

A. L. YOUNG & CO

WHOLESALE FLORISTS,

54 West 28th Street, NEW YORK.

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

—FLOWERS SHIPPED BY—

JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

19 W. 28th St., NEW YORK.

Telephone 1998 Madison Square.

Millang Brothers,

Wholesale Florists,

41 W. 28th St. NEW YORK.

N. C. SCHREINER

Wholesale Commission Florist

ROSES A SPECIALTY

41 West 28th Street,
Telephone 6259 Madison Sq., NEW YORK CITY

John Young

WHOLESALE FLORIST,

51 West 28th St., NEW YORK CITY

Long Distance Telephone, 4463-4 Madison Sq.

KESSLER BROS.

50 W. 28th St., NEW YORK.

CUT FLOWERS

Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited

ALFRED H. LANGJAHR

WHOLESALE FLORIST,

55 W. 28th Street, NEW YORK.

All flowers in season. Consignments of first-class stock solicited.

Telephones 4626 and 4627 Madison Square

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, April 11. Per 100

Roses	Beauty, special	15 00@20 00
"	" fancy	12 00@15 00
"	" extra	8 00@10 00
"	" No 1	5 00@ 6 00
"	" No. 2	2 00@ 3 00
"	" No. 3	1 00
"	Bride, Bridesmaid, special	5 00@ 6 00
	extra and fancy	4 00@ 5 00
	No. 1	2 00@ 3 00
	No. 2	1 00
"	Killarney special	6 00@ 8 00
	extra and fancy	4 00@ 6 00
"	Richmond	1 00@ 8 00
Carnations	fancy and special	3 00@ 4 00
"	common	1 00@ 1 50
Callas	per doz.	75@ 1 00
Cattleyas		50 00@70 00
Daisies		50@ 1 50
Gardenias	per doz.	1 00@ 4 00
Lilac, Cut	per bunch	50@ 1 00
Lilium Longiflorum		3 00@ 5 00
Lily of the Valley		2 00@ 3 00
Mignonette	per doz.	30@ 60
Narcissus		1 50@ 3 00
Stocks (Double white)	per doz	1 00
Sweet Peas	per doz bunches	20@ 1 00
Tulips		1 50@ 3 00
Violets		15@ 35
Asparagus	doz. bunches	2 00@ 3 00
Smilax		8 00@12 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

FORD BROS.,

Receivers and Shippers of

Fresh Flowers

48 West 28th St., NEW YORK.

Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florist

55 and 57 West 26th Street,

Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT

WHOLESALE CONMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK.

Consignments Solicited.

Telephone 7062 Madison Square.

Chrysanthemums
The novelty of the season. We carry **yellow** and Grunewald or pink, $1.25 per bunch.
Killarney Fancy, selected. The best grown stock in the United States. Must be seen to be appreciated.
AMERICAN BEAUTY coming in splendid supply.
Also getting in nice lot of **PERLE.**
A. L. RANDALL CO.,

Carnations In large supply. In all choice varieties.
We have the goods and facilities for taking care o your cut flower trade.
Also large stock of
Growers' and Nurserymen's Supplies.
LET US HAVE YOUR ORDERS.
19-21 Randolph Street, Phone Central **1496.** Private Exchange All Departments. **Chicago**

Philadelphia.

THE WEEK AFTER.

The week after has been fairly full of business, there being several good sized weddings which called for considerable displays of cut flowers and plants. Easter lilies and callas were in good demand as well as hydrangeas, which were used as cut flowers in vases and for bouquets. The supply of roses is now greater than the demand and as a consequence prices are falling. Special American Beauty is quoted at $3 to $5, with sales of fancy stock at the former figures. Specialties are now about high at $12 per 100, although $15 is asked for some. Very good medium stock is offered at from $4 to $8. Carnations are plentiful with no reasonable offer refused. The best sellers are sweet peas with which the market was never more abundantly supplied than this season. The quality is excellent and there is a good range of colors from white to purple; $1 is high, the majority bringing 50 to 75 cents. There are still a few good Emperor daffodils; the tulips appear about done for the season; snapdragon and stocks are seen in quantity and help to make variety. Gardenias sell well, the demand being better this season at increased prices. Prices have ranged from 25 to 75 cents, the great bulk of the winter's cutting going for 50 cents straight. At these prices they should prove a profitable crop to the grower who can turn the trick, a thing which, by the way, seems hard to do. The orchid returns have also been most satisfactory. Many more plants are now forced, possibly three times as many, as five years ago, and still with this increase in the supply the market, except for a time in the fall, held firm, prices ranging from $5 to $6 per dozen. As the supply increased the market widened, the wholesalers finding a ready market from their out-of-town customers. So it would appear that there is every encouragement for the growers to put their best foot forward, as all choice and rare blooms will find a waiting market at remunerative prices. That the up-to-date growers are waking up to this is seen in the large consignments of orchid plants that are coming into the market. Jules Wolf and Joseph Heacock have recently received large importations as has Alphonse Pericot of Collingdale. The Barton brothers, George and Alfred, are receiving large consignments of cattleyas so that the output for the market will be almost doubled when this added stock begins to come in. As a flower for personal adornment the orchid and gardenia are pushing the violet hard and next year will prove very strong competitors.

NOTES.

John Welsh Young has purchased 16 acres at Roslyn, just above Chestnut Hill and has a contract with the King Construction Co. to erect three houses 35x300 feet all for roses. An artesian well has been bored, finding water at a depth of 276 feet. This will be supplied to the houses from an underground basin by means of air pressure. The heating of the ranges will be by steam. The construction of a house the size of one of these would, a few years ago, have caused considerable comment; now it is accepted as a matter of fact and in keeping with the forward march of the times.

The Lord & Burnham Co., through Dennis Connor have landed the contract for three large houses for the Robert Craig Co. to be erected on their 16-acre tract at Norwood, just outside the southern city limits. Through a change in the plans of the corporation which had purchased Mr. Craig's property at Forty-ninth and Market streets, it will not be necessary for him to move possibly for a few years, which is appreciated by his firm, as the houses are in good condition and fit for several more years good service.

Edwin Lonsdale has written a very entertaining article on horticulture in the United States and England, making comparisons of the art there and here. This has been published in the school journal of Girard College, where Mr. Lonsdale is chief of the horticultural department and grounds. The article is very instructive and entertaining and will doubtless instill in the minds of some of the growing youths of the school a desire to follow in his footsteps and those of others he mentions in the craft as being successful.

Bobbie Shock, who keeps the M. Rice & Co. stock on the shelves of the retail stores and sees to it that nothing is wanting, says he had a splendid Easter trade and is well satisfied with his new position.

The Leo Niessen Co. feature long stemmed American Beauty roses, and very choice stock; snapdragon is also a specialty and extra sweet peas, which the firm says are great favorites with customers.

Wm. McKissick & Brother have a leader in orange blossoms which are much used for the spring weddings. Extra fine Emperor daffodils and a splendid show of sweet peas are also seen in quantity.

The Florex Gardens are sending in very choice American Beauty roses from their large house, which is now in full crop again. Length of stem any size to order.

Mrs. Robt. Kift and daughter are in Bermuda on a few weeks' vacation.

K.

Boston.

A GOOD WEEK.

The week following Easter found a great demand for funeral work. The week was a most successful one for all concerned, the growers being well prepared for all demands. The better classes of goods sold well, but a noticeable reduction in all grades of roses was noticed. American Beauty was of fine quality and in sufficient quantities to meet all demands. Carnations are holding their end fairly well but are coming in by the thousand and as a consequence the list has dropped rapidly. Bulb stock is on the wane. Sweet peas are seen in greater quantities than ever. The varieties offered are more numerous and several weak points in this stock have been overcome this year. The bulk of the ordinary varieties bring $7.50 per 1,000. Lily of the valley is scarce and outside dealers have responded to the heavy demands. The plant growers have not yet recovered from the Easter period, and many who close the indoor department with this holiday are now devoting their attention to bedding stock.

NOTES.

W. H. Elliott, who has leased a new store on Park street, which is now being renovated, expects to be installed the coming week. It is an ideal location and the up-to-date salesroom now being remodelled will offer the greatest convenience for customers and greatly facilitate the handling of the immense number of roses produced by the combined establishments.

Frank White, although rushed to the limit in handling his bulb and bedding stock, was found eagerly shaking hands with his numerous friends who extended their congratulations upon the arrival of a new citizen at Holbrook, where the proud parent is actively identified with all town affairs.

On April 7 quite a number of private gardeners and seedsmen gave a surprise to Wm. Westland, who is leaving the Francis Blake estate after seven years' service. He was presented with a purse of gold, together with the best wishes of the 75 friends assembled. The presentation was made by Thos. J. Grey.

Tom Pegler is showing handsome little plants of the popular Clothilde Soupert rose in pans, which are a pleasing innovation and a welcome addition to the plant specialists.

F. T. Hanley, one of the leading violet growers of New England, is still equipped with a splendid stock of Campbell, which he finds no difficulty in disposing of.

Wm. Tailby, of Wellesley, is on hand rather earlier than usual with his Spanish iris, of which he is the foremost local grower.

B.

[Henry Penn writes as follows respecting our correspondent's note on his automobile accident last week: "Kindly correct report in your columns in reference to automobile of Henry Penn being totally demolished, etc. As a matter of fact the machine was not even scratched let alone demolished. Also same was not used for delivery purposes."]

Boston Gardeners and Florists Dine.

On April 14 the Gardeners' and Florists' Club, of Boston, held its annual banquet, and it was in every way a success, and very largely attended, there being about 175 present, the greater proportion of them being ladies, to whom special credit is due, as the night was one of the stormiest experienced for some time, a regular downpour. Judge Hoitt was the toast master and he was in his best vein. Remarks were made by Messrs. Downs, Craig, Duncan, John Farquhar, Cameron, Barney, and Grey. After the banquet there was dancing until 12 o'clock.

WALTHAM, MASS.—Pierce Bros. handled 35,000 Easter lilies this season, shipping them all over the New England states.

Dagger Ferns, $2.50 per 1000

We have been saying a good deal about our Greens. You will understand this if you have seen our stock.

WILD SMILAX, GALAX, LEUCOTHOE.

The Leo Niessen Co.

Wholesale Florists, 1209 Arch St., **Philadelphia, Pa.**

AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

—Send For Prices.—

W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.

(Limited)

The Wholesale Florists of Pittsburgh,

222 Oliver Ave., PITTSBURGH, PA.

Headquarters for Choice Flowers.

J. B. Murdoch & Co.

714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.

WRITE FOR PRICES.

W. E. McKissick & Bros.

WHOLESALE FLORISTS,

Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

ABSOLUTELY THE BEST POSSIBLE SERVICE.

HEADQUARTERS FOR

Spanish Iris

ANY COLOR OR QUANTITY

THE McCALLUM CO., Inc. Pittsburg.

Pittsburg.

STOCK OVER PLENTIFUL.

The past week of sunshine piled up stock in the commission house at an unlimited pace. It is extra fine and one can buy the best at his own figures; considering these advantages the demand is very light.

On Easter Sunday, 30,000 persons were well repaid for visiting The Phipps conservatories in Schenley Park. They saw a grand display which is a great credit to John W. Jones and his force of growers. In the first house entered at each end and in the centre was a huge mound of Cineraria stellata in different colors, and between these were solid beds of hybrid cinerarias, hyacinths and primulas, the whole bordered with white daisies and spirea. In the lily house, the lilies were interspersed with Crimson Rambler roses, Spirea Van Houtei, and flowering cannas. The hydrangea house was a solid mass of blooms from 700 plants. The orchid house was a revelation and the visitor was compelled to spend a lot of time admiring this gorgeous display. Dendrobium thyrsiflorum, D. densiflorum and D. Wardianum showed up in magnificent shape. Also two spikes of D. nobile nobilius which measured 18 inches each in length. After passing through the azalea and genista house which showed up finely the old fashioned garden was reached which contained wallflowers, lady slippers, sweet peas, etc.

The Zieger Co., East End, had a very elaborate display of flowering plants at Easter and report a very satisfactory business.

Randolph & McClements made up a large blanket using 5,000 Enchantress carnations.

The Pittsburgh Cut Flower Co. is handling quantities of Killarney roses.

John James, of this city, has opened a flower store in New Kensington.

The McCallum Co. is showing some fine Spanish iris and sweet peas.

M. Fitzsimmons, of Randolph & McClements, is ill.

Wholesale Flower Markets

PHILADELPHIA, April 21.	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, April 21.	Per 100
Roses, Beauty, specials	20 00@25 00
" " extras	8 00@12 00
" " No. 1	5 00@ 6 00
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 00@ 2 00
Lilium Longiflorum	10 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50@ 75
Tulips	2 00@ 4 00
Violets, double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, April 21.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

American Beauties

The finest in this Market.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

H. Buechler, manager of the South View Floral Co., is laid up with rheumatism.

J.

CONCORD JUNCTION, MASS.—Leonard Cousins, Jr., reports wholesale business 25 per cent greater than that of last year at better prices. Cut flowers were all in over supply excepting violets. Easter lily plants were scarce. The wholesale market kept good up to Saturday, when it went to pieces.

ATHOL, MASS.—A storehouse owned by Warren Lee and located near his greenhouse and residence at Athol Center was destroyed by fire April 12. For a time both his residence and his cucumber house were in danger, but both were saved without being damaged. The cause of the fire was unknown and the loss was small and is covered by insurance. Mr. Lee's automobile was stored in the building and was saved.

ALBANY, N. Y.—Amos F. Balfoort had the decorations at the recent wedding of Miss S. B. McCann and Dr. Harold Goodwin. The bride's bouquet was of lily of the valley and orchids, her veil being fastened with the former flowers. The bride's attendants carried yellow and white roses. Mr. Balfoort reports his Easter trade as very good. Pot plants and bulbous stock found a ready sale. He had a big call for cut flowers. Being located in the residential section prompt deliveries were made, which proved of great value to flower buyers as freezing weather prevailed on Saturday and early on Easter Sunday.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

Kansas City, Mo.

Samuel Murray

...FLORIST...

1017 Broadway Coates House Conservatory

Both Phones 2670 Main.

Write, Telephone or Telegraph. All orders given prompt attention.

St. Louis, Mo,

Write, Wire or Phone Your Orders to

YOUNGS

1406 Olive Street,

Regular discount allowed on all orders, either Plants or Cut Flowers.

Phones Bell, Main 2306, Kinloch, Central 4981

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** —838— CANAL ST.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS,

Successor to Chas. W. Reimers'

329 FOURTH AVENUE.

Louisville, Ky.

JACOB SCHULZ,

550 So. Fourth Avenue.

San Francisco, Calif.

J. B. BOLAND

Successor to Sievers & Boland,

FflorisT,

60 KEARNEY STREET.

Los Angeles, Cal.

J. W. Wolfskill,

FLORIST,

Telegraph Orders a Specialty. 218 W. 4th St.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

Toronto, Can.

Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

Washington, D. C.
14th & H Sts.

Baltimore, Md.
1601 Eutaw Place.

Blackistone

Brooklyn, New York.

"WILSON"

3 and 5 Greene Ave. and 339 to 347 Greene Ave.

Greenhouses: Short Hills, N. J.

— Deliveries in —

NEW YORK, LONG ISLAND and NEW JERSEY.

M. A. Bowe

IN HEART OF NEW YORK CITY

Phone 2270 38th St. 1294 Broadway

Our Motto—THE GOLDEN RULE.

New York.

MYER, FLORIST,

609-611 MADISON AVE.

Phone 5297 Plaza.

Omaha, Neb.

Hess & Swoboda,

FLORISTS,

1415 Farnum St. TELEPHONES 1501 and L 1582

Denver, Colo.

The Park ...Floral Co.

J. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable. Cable address: "Daniels, Denver."

GUDE BROS. CO. FLORISTS 1214 F ST. N.W.

WASHINGTON D. C.

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Gude's

Philadelphia, Pa.

Robert - Kift,

1725 Chestnut Street.

Prompt and Careful Attention given to all Mail and Telegraph orders.

Buffalo, N. Y:

Palmer's

Palmer & Son, 304 Main St

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EYRES

Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL STREET,

Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dis. Bell Phone

Indianapolis, Ind.

Bertermann Bros. Co.

FLORISTS

.....241 Massachusetts Ave.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long d.s. Phones

Kansas City, Mo.

GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for Cut Flowers, Funeral Designs, Wedding and Birthday Gifts that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. Phone 1912.

Atlanta, Ga.

ATLANTA FLORAL CO.
41 Peachtree Street.

Hoffman FLORIST
59-61 Massachusetts Ave. cor. Commonwealth Ave.
BOSTON.

Boston, Mass.

FRANK H. HOUGHTON
FLORIST
Telephone Connection. 396 Boylston St.

Anderson, S. C.

THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

A Good Window Sign.

Apl. 27, Bluecher, Hamburg-New York.
Apl. 27, K. Wilh. der Grosse, N. Y.-Bremen.
Apl. 27, Virginia, New York-Genoa.
Apl. 27, Kronprinz Wilhelm, Bremen-N. Y.
Apl. 27, Caronia, Liverpool-New York.
Apl. 27, Moltke, New York-Genoa.
Apl. 27, Ryndam, New York-Rotterdam.
Apl. 28, Friesland, Liverpool-Philadelphia.
Apl. 28, Lusitania, New York-Liverpool.
Apl. 28, Oceania, New York-Trieste.
Apl. 28, Adriatic, New York-Southampton.
Apl. 28, Oceanic, Southampton-New York.
Apl. 28, Pennsylvania, New York-Hamburg.
Apl. 29, Koenigen Luise, Genoa-New York.
Apl. 29, Breslau, New York-Bremen.
Apl. 29, United States, N. York-Copenhagen.
Apl. 29, Hesperian, Boston-Glasgow.
Apl. 29, Ultonia, New York-Trieste.
Apl. 29, La Touraine, New York-Havre.
Apl. 29, Laurentic, Montreal-Liverpool.
Apl. 29, Deutschland, New York-Hamburg.
Apl. 30, Victorian, St. John-Liverpool.
Apl. 30, Marquette, Philadelphia-Antwerp.
Apl. 30, Cedric, Liverpool-New York.
Apl. 30, Bulgaria, Genoa-New York.
May 1, Cymric, Boston-Liverpool.
May 1, Vancouver, Portland-Liverpool.
May 1, Arabic, New York-Liverpool.
May 1, Lake Champlain, St. John-Liverpool.
May 1, Noordam, Rotterdam-New York.
May 1, Berlin, Bremen-New York.
May 1, Neckar, New York-Genoa.
May 1, Allice, Trieste-New York.
May 1, Caledonia, New York-Glasgow.
May 1, Columbia, Glasgow-New York.
May 1, St. Louis, New York-Southampton.
May 1, St. Paul, Southampton-New York.
May 1, Campania, Liverpool-New York.
May 1, Merion, Philadelphia-Liverpool.
May 1, La Provence, Havre-New York.
May 1, Vaderland, New York-Antwerp.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL. Western Union Code.

Detroit, Mich.

John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.
Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.

HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Fred H. Weber,
FLORIST,
BOYLE and MARYLAND
Flowers delivered state or city on short notice. ST. Louis, Mo.

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Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

BERMUDA growers report April 12 good Lilium Harrisii crop prospects up to that date.

JOHN BODGER, Gardena, Calif., will make a tour of the jobbing trade and sail for Europe about May 15.

NEW YORK.—A fire next to J. M. Thorburn & Co.'s establishment damaged part of this firm's stock during the night of April 19.

BOSTON, MASS.—The seedsmen are very busy, the days of warm weather creating a brisk demand. All early peas and Burpee's bush lima beans are very scarce.

SANTA CRUZ, CALIF.—Ernest A. Bailey, of this city has bought a half interest in the A. Mitting Calla Lily Bulb Co., of which he will be the secretary and treasurer and A. Mitting president and manager.

CALIFORNIA BEANS.—About the usual acreage of seed beans will be planted this year. Conditions could not be better for good crops, this season being the rainiest on record. The farmers generally have their land in good shape.

PUGET SOUND CABBAGE.—Cabbage seed growers in this section lost quite a percentage of the heads during the winter, but the spring has been very dry and favorable and if these conditions continue, the crop should be an average one.

THE D. M. Ferry & Co.'s steamer, Eber Ward, corn laden, from Milwaukee, bound for Port Huron, collided with an ice floe about five miles west of Mackinaw City, Mich, and sank in one of the deepest spots of the Straits of Mackinac. Five of the crew were drowned and the cargo and steamer will be a total loss.

THE French bulb situation shows varying prices ever since the meeting of April 17, but the report is that the growers have fixed on a price of about 70 francs to the jobbers for white Roman hyacinths, 12 to 15 centimeters, and for Narcissus Paper White grandiflora, 13 to 15 centimeters, about 18 francs, and for the size larger 25 francs. It is said that the Roman hyacinths will be only an average crop, while there should be a sufficient supply of narcissus to go around.

PHILADELPHIA, PA.—Howard M. Earl, who has had a bad attack of the grip, is at his desk again. Mrs. Earl also has been severely ill and is still confined to the hospital.

JESSE E. NORTHRUP'S portrait is made the frontispiece of the twenty-sixth annual report of the Minneapolis board of park commissioners, just issued. Mr. Northrup was president of the board for a number of years, but declined re-election at the close of 1908.

CHICAGO.—Continued cold rains have seriously delayed the sowing of seed for onion sets.—Contract prices on the board of trade April 20 for grass seed were noted as follows: Prime timothy, $3.80 (nominal), white clover, 16.—Visitors: H. A. Johns, Sioux City, Ia.; C. B. Coe, Detroit, Mich.; A. J. Brown, Grand Rapids, Mich.

The Late Wm. Hagemann.

See Obituary, April 10, Page 557.

THE following seedsmen have each subscribed the amount stated to the Canners' publicity campaign: Jerome B. Rice Seed Co., Cambridge, N. Y., $150; Alfred J. Brown Seed Co., Grand Rapids, Mich., $100; Manitowoc Seed Co., Manitowoc, Wis., $100; Rogers Bros., Alpena, Mich., $100; Everett B. Clark Seed Co., Milford, Conn., $100.

BURNET LANDRETH, secretary and treasurer of the Wholesale Seedsmen's League writes: "Bristol, Pa., April 14, 1909.—Now the finance committee of the senate, presided over by the Hon. N. W. Aldrich, is actively considering the subject of the tariff is the time to write that committee, to the effect that all the seedsmen of the United States are unanimously in favor of a specific duty rather than an ad valorem one on garden seeds, not with the idea of avoiding a customs duty, but solely with the idea of simplifying the system of assessment on importations, and to avoid the irritation of custom house penalties. Will you not today write to Senator Aldrich to this effect?"

Bulb Tariff Schedule.

It is understood the senate finance committee considered the bulk tariff schedule unnecessarily high against Holland, that country having favored the United States somewhat in tariff matters. F. R. Pierson of the Society of American Florists' tariff committee has visited Washington with a view to scaling down the rates to some extent and it is hoped the revised schedule will meet with the approval of those in charge of the Aldrich bill.

Tariff Seed Schedules.

It is understood that Senator Aldrich of the senate finance committee has reported the following schedules on seeds:

THE FREE LIST—PARAGRAPH 664.

Seeds: Anise, canary, caraway, cardamon, cauliflower, coriander, cotton, cummin, fennel, fenugreek, hemp, horehound, mangel-wurzel, mustard, rape, Saint John's bread or bean, sugar beet, sorghum or sugar-cane for seed; bulbs and bulbous roots, not edible and not otherwise provided for in this section; all flower and grass seeds; evergreen seedlings; all the foregoing not specially provided for in this section.

THE DUTIABLE LIST—PARAGRAPH 262.

Seeds: Castor beans or seeds, 25 cents per bushel of 50 pounds; flaxseed or linseed and other oil seeds not specially provided for in this section, 25 cents per bushel of 56 pounds; poppy seed, 15 cents per bushel; mushroom spawn and spinach seed, 1 cent per pound; beet, except sugar beet, carrot, parsnip, radish, turnip and ruta-baga seed, 4 cents per pound; cabbage, collard, kale and kohl-rabi seed, 8 cents per pound; egg plant and pepper seed, 20 cents per pound; seeds of all kinds not specially provided for in this section, 10 cents per pound.

Other paragraphs carry seed peas at 30 cents per bushel; beans, 45 cents per bushel.

California Seed Crops.

San Jose, April 13.—At this season of the year the various seed dealers throughout the United States and Canada are naturally anxious to get some idea as to the crop prospects here in California. The writer begs to state that we have had a very severe winter, with more rain than we have had here for 50 years past. The result has been that on low lands many seed crops have suffered, and in various instances total acreages of various seeds have been destroyed. This is especially true of onion crops that were being grown on the Sacramento and San Joaquin river district. One seed grower lost 150 acres; another lost 25 acres of onions. These losses were occasioned by the breaking of a levee which flooded the land. In the Santa Clara valley district the onions have suffered as a whole by excessive water fully 25 per cent, some crops of onions being totally

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon. Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.(0	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; 1/8-oz. $1.50 1/4-oz. $2.50; 1/2-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; 1/8-oz. 60c.; 1/4-oz. $1.00; 1/2-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

destroyed, while others are looking remarkably well. It is the writer's opinion that there still remains in good condition sufficient onion going to seed to supply a reasonable demand of the seed trade for the season of 1910.

Lettuce at the present writing is being reseeded, and at the best we cannot look forward to any large crop of this seed. Of onion, as said before, there will be enough to go around, with the probable exception of Red Wethersfield and White Portugal. These two sorts, it is our opinion, will be short. Carrot is in very limited acreage in California this season. The crops planted are looking well, and we see no reason why we should not harvest a good crop of this seed. Salsify is doing well. Radish promises a good crop. Celery, collards, beet, kohl-rabi, leek, spinach, parsley, parsnip, mustard and endive all promise a good crop at this time. Sweet peas are doing very well.

CHAS. P. BRASLAN.

Connecticut Conditions.

Milford, April 16.—We are just putting our seed bulbs into the ground. Most of them, however, have wintered well and the spring is not an unfavorable one for a propitious start. The condition of the stocks on hand of 1908 production is decidedly healthy. At one time it looked as if there would be a surplus of onion seed at the end of the season, but the general clean-up of seed items will extend so as to include the onion seed. The demand on this item has been first class during the past three or four weeks.

On sweet corn we will be almost literally cleaned out, we think, by the end of planting time. It goes without saying that we shall have nothing worthy of mention to carry over in items of seed peas or beans. Green pod beans have been recognized as a short item for several months and wax varieties which looked longer have been called for to such an extent that it is now apparent that there will be nothing considerable carried over in the way of beans to interfere with the new crop.

We are just now moving seed stocks out into growers' hands in Michigan and Wisconsin and expect to have practically all of our seed stock sown. Acreage has come hard on both peas and beans, but by persistent effort and by trying out some new sections we have succeeded in writing contracts to such an extent that we think we shall be able to get all of our seed stock planted.

ARTHUR B. CLARK.

BUY CALIFORNIA Asparagus Plumosus Nanus Seed.

You can get the best seed grown right here in California. It is fresh large, clean and full of vitality. The best and biggest dealers are our regular customers and their orders are increasing each year. If you are doubtful, just write me and I'll tell you the names of the buyers, some of them perhaps you are personally acquainted with.

Seed will be sold by count with the usual guarantee as to germination, and I will again sell at my usual low, cash-with-order prices as per following list.

1 000 seeds...	$ 2.00	13,000 seeds...	$20.00
6,000 seeds...	10.00	25 0(0 seeds ..	35.00
50,000 seeds...	62.50	100,000 seeds	100.00

If you send me your order I know you will be pleased with the results.

F. GILMAN TAYLOR,
630 H.W. Hellman Bldg., LOS ANGELES, CAL.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

Skidelsky & Irwin Co.
SEEDS, BULBS AND PLANTS.
144 N. 7th St., PHILADELPHIA
KATALOG for the asking.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

The Everett B. Clark Seed Co.
Growers for the Trade,
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers
In colors........................1/8-oz. 60c: oz. $4.00
Pure white....................1/8-oz. 75c: oz. 5.00
H. E. FISK SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelo

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

WINTERS & PROPHET of the St. Morris, N. Y., canning factory, are building a new greenhouse for tomato plants. They propose planting 100 acres for canning this season.

English Market Garden Notes.

Rochford's is one of the best cucumbers but is prone to spot in the leaves. Butcher's Disease Resister is a good second early. Exporter is well spoken of.

Comet is the tried and true friend of the tomato grower. Norfolk Hero is also good and growers have usually their own selections. We stop all leaders at the third or fourth flower truss and remove all laterals.

The large exports of potatoes to America have strengthened the market here but 40 shillings (about $9.60) is the best price per ton (2,240 pounds). We grow largely Early Rose, Up-to-Date and Sir John Llewellyn for seed and are traying the seed and marketing the larger tubers now. The land is already drilled for planting.

Hardening Off Plants.

The three greatest mistakes a gardener is likely to make are thick seeding, late transplanting or thinning and improper hardening off. At this time we will consider the latter. The operator must realize, no matter how hardy a plant may be naturally, if grown under glass it will be tender and exposure must be gradual and well timed if serious checks are to be avoided. The best growers do not force their plants, they know the proper course is to grow plants as nearly as possible along outdoor lines—using the glass and heat only to overcome the extremes of weather. Such plants are readily prepared for removal to garden or field. If plants have been grown warm and confined, it is very important to gradually admit more air on all favorable occasions. This can be done by opening earlier, closing a little later each day and increasing amount of air if winds are mild. In hotbeds the sash can be removed entirely for a short time each day in mild weather. As a rule it is not advisable to expose plants all day for the first time. This should be accomplished more gradually by lengthening the open period each day.

The condition of the air has much to do with success. After a frosty night the air will be mixed with cold currents for several hours, no matter how nice the day, hence it is unsafe to expose tender subjects for the first time on such mornings. The same is true in a rapidly falling temperature—the air is mixed with cold and damage is easily done. The best results are obtained by exposing during rainy weather, or just before a rain, when the air is more likely to be mild. An important feature is moisture. Plants to be hardened off should be moist at the roots. If they show signs of wilting a light sprinkling is very beneficial; if this does not recover them the exposure is too much and covering is in order. Here is where cloth covered sash are a help—we always employ plant cloth to follow glass. It admits light and air and prevents sweeping air currents. After plants have gained hardiness, toughen them by withholding water. In the greenhouse, withholding water is the greatest factor in preparing plants for removal to the fields.

MARKETMAN.

German Process for Drying Potatoes.

According to the Magdeburgische Zeitung, Consul Frank S. Hannah says that the recent experiments in the drying of potatoes under the auspices of the imperial interior department has had such good results that a new and important field of activity may be offered for the German farmers.

The potatoes are reduced by this process to about one-quarter of their original weight and can be kept in a good condition in this compressed form for an indefinite length of time. The military authorities have made thorough experiments with this product and have become convinced that its nutritive value is fully equal to that of corn, and that the dried potatoes can take the place of one-third of the former ration of oats. The fact that the potatoes are reduced to one-fourth of their original weight brings about a corresponding reduction in the price of the freight, so that it will pay to grow more potatoes than has formerly been the case. This naturally has a further tendency to increase the export. This new use for the potatoes will also

"BULBS THAT BLOOM"

BETTER GLADIOLI THAN YOU HAVE EVER SEEN—YOU CAN GROW THEM.

Cedar Acres Gladioli command in the cut-flower market a price six times as high as the regular market rate, because the flowers are larger and finer than any procurable elsewhere With my bulbs and cultural directions you can grow the same kind. They are as easy to raise as potatoes.

The Gladiolus has become the queen of the garden. From the old-time scraggly spike, the Gladiolus has developed into a magnificent and stately plant, bearing a wealth of of color as delicate as the finest orchid. For cut-flowers, they are unequalled in beauty, and last for nearly ten days, gradually unfolding.

My new seedlings including the famous Harvard, Kathryn, and Fireside, have been awarded numerous medals and certificates of merit.

BOOKLET FREE, showing Harvard in full colors, and many other new varieties, with reliable information about each one. **Send for it today.**

B. HAMMOND TRACY,
Cedar Acres Box 17. WENHAM, MASS.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages. **Carrots,** Kohl Rabi, Leek. Lettuces, **Onions, Peas, Radishes,** Spinach. Turnips. Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias. Larkspur, Nasturtiums. **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas. Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres. and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

VEGETABLE PLANTS

For Transplanting.

	1000
Cabbage, Wakefield and Succession	$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100:	3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain 40c per 100	3 00
Chinese Giant and Cayenne 50c per 100	
Tomato, Earliana, Chalk's Jewell, and Early June Pink 30c per 100	2 00
Stone, Favorite and Paragon, small plants	1 00
Celery, Small for transplanting White Plume and Golden Self Blanching	1 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List:—

The Conard & Jones Co.

WEST GROVE, PA.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 99 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

CALLA BULBS For Sale. LILYDALE QUALITY.

Lilydale, Santa Cruz, Calif. Photographed in February.

Prices Quoted for July Delivery.

50,000 Blooms For Sale.

LILYDALE BULB & ROOT CO., Santa Cruz, California.

have the tendency to relieve the already congested starch and spirit markets. Experiments are still being conducted under the direction of Privy Councilor Koellner, of Moeckern, with the purpose of rendering the process still cheaper.

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points April 17 were as follows: New York, cucumbers, 50 cents to $1.12 per dozen; lettuce, $1.50 to $2 per strap; mushrooms, 25 cents to 75 cents per pound; mint, 40 to 50 cents per dozen bunches; radishes, $1.25 to $1.75 per 100 bunches; rhubarb, $2 to $6 per 100 bunches; tomatoes, 10 to 25 cents per pound. Chicago, cucumbers, $1.25 to $2 per dozen; head lettuce, $1.50 to $2.50 per hamper; mushrooms, 40 cents to 85 cents per pound; tomatoes, 10 cents to 20 cents per pound; radishes, 40 cents to 60 cents per dozen bunches; asparagus, $2 to $7 per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 cents to 75 cents per dozen; rhubarb, 6 cents to 10 cents per pound, extra fancy, 14 cents per pound; French endives, 25 cents to 40 cents per pound. Kansas City, cucumbers, $1 to $2 per dozen. Cincinnati, cucumbers, $1.25 per dozen; mushrooms, 50 cents per pound.

A New Method of Keeping Potatoes.

Consul-General Richard Guenther, of Frankfort, reports that a German publication, the "Practical Adviser in Fruit Raising and Gardening," states that a new method for keeping potatoes and preventing sprouting consists of placing them on a layer of coke. Doctor Schiller, of Brunswick, who has published the method, is of the opinion that the improved ventilation by means of coke is not alone responsible for the result, but believes that it is due to the oxidation of the coke, which, however, is a very slow one. Coke always contains sulphur, and it is very possible that the minute quantities of oxides of carbon and sulphur, which result from the oxidation, mixing with the air and penetrating among the potatoes are sufficient to greatly retard sprouting. Potatoes so treated are said to keep in good condition until July.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

April is the month to sow this seed.

ASPARAGUS PLUMOSUS NANUS,

Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

King Humbert Cannas

We have a grand lot, 3-in., $7.50; 4-in., $10.00 per 100. Order quick.

A grand lot of Blooming Plants for May Day.

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

CORNING, N. Y.—It is reported that Donald Reynolds has been appointed manager of the Corning Floral Co.'s greenhouse on West Pulteny street and Park avenue.

PITTSBURG, PA.—James J. Kent died at his home, 7023 Hamilton avenue, April 13 after an illness of five months. He was a native of Ireland and is survived by his wife and two daughters.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

PRUNE GROWERS of San Jose, Calif., are organizing and recently held a meeting there.

ROCHESTER, N. Y.—F. N. May, who was recently engaged in the nursery business here, died of tuberculosis at the Thomas hospital in Minneapolis, Minn., April 7.

HIRAM GREGORY, a well-known nurseryman, died at his home on Akron street, Lockport, N. Y., April 11. He was 61 years of age. He is survived by a widow, three daughters and two sons.

PROVIDENCE, R. I.—The Meshantient Nursery Co. has been incorporated with capital stock $5,000. E. J. Rojon, Pawtucket, and Francis McCanna and James A Lee, of this city, are the incorporators.

THE initial work of tree planting from the two-year-old state nursery at Asaph, Pa., commences this week, and 46,000 two-year-olds, of which 16,000 are hardwood and spruce, will be immediately set out on barren lands.

The Root Gall of the Peony.

For several years there has been received at this station (Ithaca, N. Y.) from different parts of this and other states specimens of peony roots which show galls or swellings upon them. These galls are most marked upon the smaller roots. However, they sometimes grow on the larger roots and even on the base of the stems. The accompanying illustration gives a fairly good idea of the general characteristics of this disease as it appears on the peony. One is reminded very much of the club root disease of the cabbage. The swellings are not uniform in size or shape, sometimes quite evident and at other times indicated only by a slight, irregular enlargement of the affected root. On cutting across one of these galls one may readily observe a mottled appearance of the cut surface caused by yellowish, watery places in the flesh of the root, contrasting strikingly with the white areas filled with starch. In the healthy root the cut surface shows pure white flesh with an entire absence of these yellowish, watery spots. If a thin slice of the gall be made and treated for a moment in iodine the white portions turn a distinct blue, showing the abundant presence of starch. The watery areas retain their yellow color, giving no starch reaction.

A microscopical examination of the gall confirms the iodine starch test. The watery areas show no starch, while the adjoining and surrounding tissue is packed with it. A section of healthy root shows an even distribution of the starch throughout. Affected plants are characterized also by a lack of a well developed root system. The roots are usually small or short and stubby; the crown throws a considerable number of buds which are small and weak as compared with healthy plants. It has been thought by some growers that the disease is confined to imported stock, but Mr. Farr, of Reading, Pa., informs me in a recent letter that the disease is known to occur very frequently now on American grown varieties. The nature of the disease is, so far as I know, entirely unknown. Mr. Farr points out that by proper treatment these affected roots may be so handled as to outgrow the disease and produce well developed flowers. Below I quote from some of Mr. Farr's correspondence in regard to his experience in handling this trouble:

"I concur in the view that it is better and cheaper to destroy badly affected roots than to bother with them, in case of ordinary varieties. When it comes to the very rare and very expensive roots it is a different matter. If any course of treatment would bring these roots to a state of health they are well worth any amount of time and trouble necessary to bring them to health. My own experience justifies the belief that under proper culture these peonies will eventually regain their normal state. There is some compensation for the time and trouble that they take in the fact that the increase is very rapid and while the results are not in a condition to sell during their period of recovery the time eventually comes, when they have got in good condition, that one will have a large stock to pay for the time and trouble." Speaking of some imported stock Mr. Farr says in another letter:

"When they arrived here they were about the size of one's fist, a bundle of small eyes and stubby roots much decayed and so loosely held together that I at once separated them, in most cases without the aid of a knife, my idea being that the small roots would have a better chance to grow by themselves than in the mass together. The first year they looked like seedlings, one or two small leaves, without stems to mention; next year they were stronger, and by the third year they had formed clusters of small stems closely bunched together. They were separated again. This time the roots were longer, the decay had mostly disappeared and here and there were roots found comparatively smooth. The largest and best were planted together, the smallest kept by themselves, decayed roots being thrown away. This operation was repeated again in two years, by which time many were flowering; each time they were planted in new ground. The last time they were covered with a heavy coat of manure, after the ground had frozen. This seemed to have a bad effect on them as those manured the most heavily developed more knobs during the summer, and the experience of others in this respect leads me to believe that the disease is caused more by the condition of the ground and over feeding than anything else, and that when once it takes hold of a variety it persists a long time, but does not kill the plant, unless it remains in the unfavorable environment. I believe that frequent separating to prevent crowding would induce strong healthy roots to be sent out, and that eventually the plant would become healthy."

ROOT GALL OF THE PEONY.

Investigation upon this disease is now under way by the department of plant pathology. It is hoped that we may be able to discover the cause of this trouble and some means of profitably controlling it. This article is published at this time chiefly for the purpose of calling the attention of growers to the disease and asking their co-operation in solving the problem of its cause and control. It is desired that all growers interested in this disease will furnish us with specimens whenever they can and also give us all the information in the way of observations and opinions which they may have on the disease.

It is only by getting such information from the growers themselves, and by properly summarizing the observations of a large number of men that we will be able to get at the most practicable means of handling such diseases. The writer urges that every grower will

W. van Kleef & Sons, Wholesale Growers of Nursery Stock .... BOSKOOP (Holland)

Beg to announce to the trade that their **W. van Kleef, Jr.,** is again in America calling on the trade.

Address all correspondence during April and May care of **Messrs. Maltus & Ware, 14 Stone St., New York**

We have on hand a large consignment of

Japanese Bamboo Canes

Fine, Strong Quality.

NATURAL.	Per 1000
6 ft., heavy, original bundle of 2,500	$4 25
6 ft., medium, " " 2,500	3 50
5-6 ft., pencil thickness, original bundle of 5,000	3 25
4-5 ft., pencil thickness, original bundle of 5,000	2 75
3 ft., pencil thickness, original bundle of 5 000	2 25

GREEN COLORED.	Per 1000
1½ ft., original bundle of 4,000	$1 20
2 ft., " " " 4 000	1 85
2½ ft., " " " 4.000	3 00
3 ft., " " " 4.000	3 50
3½ ft., " " " 4,000	3 75

Sold in original bundles only. Samples on application.

Cycas Stems.

Fine straight stems, in case lots of 300 lbs., assorted; 4 10 lbs., ½ 4 lbs., ½ 2 lbs., 2 10 lbs. $10 50 per case

Kudzu Vine Roots.

Strong, heavy quality, 1000 at $50 00
" " " 100 at 7 50

The Yokohama Nursery Co.,

31 Barclay St., NEW YORK CITY.

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige, Mme. Plantier, Alfred Colomb, Perle des Blanches, Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.

Tausendschon, the great new climber $20.00 per 100
Crimson Baby Rambler ..... 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2 ft.	$1 50	$2 75	3½ ft.	$3 00	$ 5 50
2½ ft.	2 00	3 75	4 ft.	4 00	7 00
3 ft.	2 50	4 50	5 ft.	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
18-22 in.	20-22 in	$3 00	$5 50	18-22 in.	30-32 in	$5 50	$10 00
22-24 in.	22-24 in	4 50	8 00	22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high ..... Each, 40c! per doz., $4 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

84-86 Randolph St., CHICAGO. **25 Barclay St., NEW YORK.**

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

Some of Our Specialties

	Each
Boxwood, Pyramid shape, 2½ to 3 ft. high, very heavy	$1 75
3 to 3½ ft. high	2.50
Bush shape, very heavy, 2 to 2½ ft.	1.75
2½ to 3 ft. high	2.00

	Per 100
Rhododendrons, Parson's hardy varieties, 8 to 12 buds, 18 to 24 in. high	$ 75 00
12 to 14 buds, 24 to 30 in. high	100.00
Azalea Mollis, 15 to 18 in. high, very bushy and full of buds	35.00
Hybrid Perpetual Roses, strong, dormant, field-grown plants of our own growing, none better..$100.00 per 1000	$11.00
Moss Roses, field-grown	12.00
Hardy Climbing Roses, field-grown	8.00
Tree Roses, hardy varieties, budded on straight stems, 4 to 5 ft high	30.00
Ampelopsis Veitchii, bushy, 2-yr. plants, 3 feet of tops	10.00

THE STORRS & HARRISON CO., Painesville, O.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Roses** Dwarf, Climbing, Tree and Ramblers.

CLEMATIS, and all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

feel that this disease is his problem and do all he can for its solution. Send all specimens and address all communications to Professor H. H. Whetzel, Department of Plant Pathology, College of Agriculture, Ithaca, N. Y.

Injury to Cornus.

ED. AMERICAN FLORIST:—

I am sending under separate cover a branch of Cornus Sibirica. Kindly tell me if it is affected with San Jose scale. R. C.

No, there was no scale or insects of any kind on the cornus wood sent. The marks that look like scale are frequently seen on shrubs and are probably caused by varying changes of temperature affecting the immature bark in the early stages of growth.

G.

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

American Everblooming Hydrangeas

Strong, field-grown plants, 15 inches and up, $2.50 per doz., $15.00 per 100; the same, 10 to 14 inches, $1.50 per doz., $10 00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000; B. Thunbergii Seedlings, 5 to 7 inches, $1.50 per 100, $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3 ft. cheap.

THE E. Y. TEAS CO., Centerville, Ind.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

Julius Roehrs Co.'s Specialties

BAY TREES AND BOX TREES, CHOICE EVERGREENS.

Special Offer on **Blue Spruce, Palms, Stove Plants, Crotons, Hydrangeas,** all sizes.

Begonia Gloire de Lorraine, from leaf cuttings.

New importations of **Cattleya Trianae, C. Labiata, C. Gigas, Vanda Coerulea.**

Dendrobium Wardianum, D. Formosum.

EVERYTHING IN FIRST-CLASS CONDITION.

Write us and we will cheerfully give prices, with lists of any of the above.

JULIUS ROEHRS CO., Rutherford, New Jersey

Vaughan's Special Offer of Seasonable Stock

	Each	Doz.	100
Areca Lutescens, 4-in., 3 plants in a pot, 15-18 in. high.		$3 00	$20 00
Kentia Belmoreana, 6-in., 6 leaves, 24-26 in. high	$1 75		
" " 7-in., 6-7 leaves, 26-28 in. high	2 00		
" " 7-in., 6-7 leaves, 30-32 in. high	3 00		
Kentia Forsteriana, 6-in., 5-6 leaves, 30-32 in. high	1 50		
" " 5-in., 5-6 leaves, 34-36 in. high	2 00		
" " 7-in., 5-6 leaves, 36-40 in. high	3 00		

	Each	Doz.	100
Latania Borbonica, 3-in., 3-4 leaves, 12-14 in. high		$1 00	$ 8 00
" " 4-in., 4-5 leaves, 14-16 in. high		2 50	20 00
Phoenix Roebeleni, 4-in	$ 75	8 00	
Pandanus Utilis, 5-in., 15-18 in. high	50	4 00	
Ficus Elastica, 5-in., 18-20 in. high		35	4 00
" " 6-in., 24-28 in. high		60	6 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store, 84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

Dreer's Nursery Robbed.

Dreer's nursery premises at Riverton, N. J., were entered by thugs April 13, who after tying and gagging the watchman on duty, ransacked the place and blew up the safe with nitroglycerine, incidentally tearing away entirely the staircase in the office that leads from the first to the second floor. There were five of the robbers, and these surprised Frank Satoniski, the watchman, about 1 o'clock in the morning as he was making his rounds, ordering him to throw up his hands. He was then led to a post in the greenhouse, after having been relieved of his revolver, and left there until the men had completed their work. In that condition he heard the robbers blow open the safe and crack the doors leading to secret closets.

After the robbers had completed their work the gang left the town quite as mysteriously as they had entered it. In their kit, which was left behind, was found a small quantity of nitroglycerine, a monkey wrench and a piece of soap. Two firemen, who are kept on the nursery premises, awoke about 3 o'clock, and went out to find Satoniski. After wandering about more than an hour, the firemen, George Gresfinburg and Taylor Gumphrey, discovered the watchman in the greenhouse, breathing heavily and nearly exhausted.

Gumphrey ran quickly to the home of Jacob Eisele, president of the company, whose house is not far distant from the scene of the robbery. With the aid of the chief of police, and a squad of his men, Mr. Eisele made a careful examination of the place. From the safe it was said that about $75 had been taken, and many valuable papers were destroyed.

FALMOUTH, MASS.—H. V. Lawrence's new seed store and greenhouses have been opened for business.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high.....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

Made-up Kentia Forsteriana.

9-in. tubs, 42 to 48-in. high.....$5 00 each
12-in. tubs, 4 plants in tub, 6-ft. high ...15 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

BROOKLYN, N. Y.—Edward F. Daly of Nineteenth street and Prospect park, died at his home, 320 Prospect park, west, April 3.

Dreer's Novelties in Hardy Perennials

New or Little Known Varieties Worthy of Special Attention.

LUPINUS POLYPHYLLUS ROSEUS.

Anchusa Italica Dropmore Variety. A grand improvement on the type, with intense deep blue flowers, $2.00 per doz.; $15.00 per 100.

Anthericum Liliastrum Giganteum. A giant form of the N. Bruno Lily with very large white flowers, $2.50 per doz.; $20.00 per 100.

Aquilegia Helenæ. One of the best of the Columbines, large pretty blue flowers, with large white corolla, 85 cts. per doz.; $6.00 per 100.

Campanula Persicifolia Humosa. A very large semi-double form of the peach leaved Campanula, flowers of a pleasing shade of blue, $1.50 per doz.; $10.00 per 100.

Delphinium Gold Medal Hybrids. The finest strain ever offered in mixed varieties, $1.25 per doz.; $8.00 per 100.

Delphinium Belladonna. The freest flowering of all Delphiniums, it is never out of bloom, beautiful turquoise blue, $2.00 per doz; $15.00 per 100.

Funkia Robusta Elegans Variegata. A decided improvement on all variegated forms, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Gem. A new variety that originated on our trial grounds. Flowers old gold, suffused with bright terra cotta, changing as they mature to a wallflower-red, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Beauty. Another variety which originated with us, quite distinct in color, which is lemon-yellow, with a large disc of purplish-black, $1.50 per doz.; $10.00 per 100.

Helianthus Sparsifolius. The most desirable of all the hardy sunflowers, especially valuable as a cut flower, 85 cts. per doz.; $6.00 per 100.

Four Valuable Hemerocallis. The four varieties here offered are great improvements upon the well-known Yellow Day Lilies.

Aurantiaca. Very large, bright, orange-yellow, sweet-scented flowers, 15 cts. each; $1.50 per doz.

Aurantiaca Major. Large trumpet-shaped, sweet-scented, deep orange flowers. Requires protection, 35 cts. each; $3.50 per doz.

Florham. Large golden-yellow sweet-scented flowers; very free flowering, 15 cts. each; $1.50 per doz.; $10.00 per 100.

Gold Dust. Large golden-yellow flowers, 15 cts. each; $1.50 per doz.

Incarvillea Delavayi. Popularly known as the hardy Gloxinia; extra strong roots. $2.00 per doz.; $15.00 per 100.

Iris Pallida Dalmatica Folia Variegata. A strikingly handsome variegated leaved form of this beautiful blue Iris, 35 cts. each; $3.50 per doz.

Gypsophila Paniculata Flore Plena. This is a perfect gem and as a summer cut-flower invaluable. We have a large stock of strong roots to offer this season, $2.00 per doz.; $15.00 per 100.

Lupinus Polyphyllus Roseus. This is a most attractive rosy pink form of Lupinus, producing gigantic spikes of flowers, $2.00 per doz.; $15.00 per 100.

Pentstemon Gentianoides Sensation. Gloxinia-like flowers in a variety of bright colors, including rose, cherry, crimson, purple, lilac, etc. For bedding they rival Phloxes, Petunias, etc. Not quite hardy, 3-inch pots, $1.00 per doz.; $7.00 per 100.

Primula Cortusoides Sieboldi. These are not so well known as they deserve; they are of free, vigorous growth, and can be flowered in pots in early spring, and respond quickly to forcing when placed in a temperature of 50 degrees, forming pretty pot plants in a short time, making excellent window plants, which meet with ready sale when in bloom.

We offer six distinct varieties, from pure white to the deepest rose in color, $1.50 per doz.; $10.00 per 100.

Rudbeckia Rays of Gold. In this new variety we have a refined form of the popular "Golden Glow," with which it is identical in color, habit, etc., but the flowers have narrower petals, full to the center, forming a perfect ball of gold. $1.50 per doz.; $10.00 per 100.

Stokesia Cyanea Alba. A white form of the popular blue Stokesia, equally valuable and a desirable addition; strong plants, $1.25 per doz.; $8.00 per 100.

Choice New Trollius. (New Globe Flowers.) The five varieties listed below are decided improvements on all sorts heretofore offered; of exceptional large size and good rich colors.

Gotterfunke. Large open orange-yellow flowers.

Helios. Very free flowering, pure yellow, on strong branched stems.

Leuchtkugel. One of the finest deep orange reds.

Lichtball. Large, globular orange-yellow flowers on stiff stems.

Salamander. Soft orange-colored flowers of globular form.

35 cts. each; $3.50 per doz. The set of 5 for $1.50.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

PEONY ROOTS WANTED

For Delivery August Next.

Growers of named Peony roots able to offer 500 to 1000 strong roots of a kind, at right prices to compete with European stock, please communicate contract prices to

Key 655, care American Florist.

MOUND CITY, MO.—John H. Durham will build a new greenhouse 36x50 feet.

INDIANAPOLIS, IND. — Arrangements have been made between the Indiana Florists' Association and the State Board of Agriculture whereby the former will have charge of the floricultural exhibit at the state fair next fall. A premium list has been adopted by the association and the board has given its sanction to it. Some very attractive premiums are offered for a varied list of exhibits. For a floral design $50 and $25 are offered as first and second prizes, while for a bride's bouquet, basket of flowers, vase of flowers, $20 and $10 are offered in each case.

Vaughan's Special Offer Dormant Roses

Extra good strong stock,	Per 100	Per 1000
Debutante, 2-yr	$1 50	$12 00
Tausendschon,	1 50	12 00
Gruss an Zabern	1 50	12 00
Sweetheart,	1 50	12 00
Hiawatha,	2 00	15 00
Baby Rambler, 1st size, 2-yr	3 00	20 00
" " 2nd size	2 50	16 00
" " 3rd size	1 50	10 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

P. O. Drawer V, CHICAGO.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Tell Your Dealer You "Saw It in THE FLORIST."

Grafted Brides

Bench Plants, 2-years old
$40.00 per 1000
——Very Fine Stock——

Bassett & Washburn,

76 Wabash Ave., CHICAGO.
Greenhouses, Hinsdale, Ill.

New Orleans.

The Easter trade here was very heavy this year; in fact the retailers had their hands full in filling their orders. Although the flowers here were plentiful we had to draw heavily on Chicago, principally for carnations, tulips and lilies.

The Horticultural Society will take its outing to Rose Villa some time next month.

T. A. Despommier, Jr., was married to Miss Maud Bradley April 14.

C. W. Eichling says he is well pleased with Easter.

U. J. Virgin did a very heavy trade for Easter.

A. Alost of Rose Villa sold about 15,000 roses.

Jas. A. Newsham reports a fine sale of lilies. D.

San Francisco.

The Easter trade here differed a little from that of last year. The sales were about the same in value but the prices were lower and more stock was sold. The supply of plants was good and there were some left over; there were also more than enough cut flowers. Easter lilies were in great demand, also rambler roses, but spireas and azaleas hung fire a little. Owing to the scattered condition of the trade in this city now some had more than they could attend to; others did only fairly well. P.

Louisville.

TRADE GOOD.

Business conditions the past week were about as good as could have been expected. There were plenty of roses of good quality which had a fair demand. Carnations were very good in quality and supply and the demand was very satisfactory. Lilies, lily of the valley, violets, etc., have a fair demand and are in good supply. Green goods with the exception of fancy ferns are in good supply and have a satisfactory demand.

F. L. S.

BURLINGTON, IA.—Bock's greenhouses were badly damaged by fire April 9.

DALLAS, TEX.—Chas. Watson, rose grower for the Green Floral & Nursery Co., lost his life by drowning, April 6.

CEDARVILLE, N. J.—Wm. H. Henderson died April 1 at the age of 68. He was well known as an excellent chrysanthemum grower.

PHOENIX, ARIZ.—The Maricopa County Nursery says there was no comparison with last year's sales, this season's being 75 per cent greater with better prices and not enough stock to go around.

HIGHLAND PARK, MICH.—The establishment of Frank Holznagle was so threatened with destruction by wind April 7 that it was necessary to anchor the building at 2570 Woodward avenue with wire ropes.

MARY TOLMAN

A New Light Salmon Pink Carnation.

Of a somewhat warmer tone than Enchantress, and does not fade on the edge of the petals, having a clear, even shade all over the flower, which measures from 3 to 3½-inches, although 4-inch flowers are very common. The stem is long and stiff, holding the flower perfectly erect. The calyx is very strong, and as a producer, it comes early, is very free and continuous.

Orders booked now for January 1910 delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

Sangamo

Is the new, brilliant, glistening **PINK CARNATION** shown at Indianapolis, and awarded the A. C. S. Certificate of Merit, attracting the attention of every carnation grower on account of its very pleasing color, long stiff stem and well formed flowers, measuring 3 to 3½ inches. The calyx is strong, and as a producer it cannot be excelled. Orders booked now for January, 1910, delivery.

$12.00 per 100; $1000.00 per 1000.

Grown and disseminated jointly.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO. Joliet, Ill.**

CONQUEST

A NEW SEEDLING CARNATION

To be disseminated next season. This is a variety that florists have been wanting ever since they discarded Prosperity.

Conquest is a light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. It does not fade, making it a most beautiful and attractive flower. Its habit is somewhat on the order of Lawson, although the stem is somewhat longer and very stiff. The flowers are well filled and nicely formed, which add to its attractiveness. Without a doubt, it will be the most attractive as well as the most profitable variety to be disseminated the coming season.

Orders booked now for January 1st, 1910 delivery.
$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., JOLIET, ILL.

Carnation Cuttings and Plants

READY APRIL DELIVERY
Extra Strong Stock, Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ...$10.00 per 100, from sand
Mrs. J. C. Vaughan, from 2½-in. pots,.....$12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, **Joliet, Ill**

CANNAS

	Per 100
10 varieties, 3-in. pots, April 25	4 00
Alternantheras, red and yellow	2 00
Coleus, 10 varieties	2 00
Verbenas, April 25	2 00
Vinca Var., 2¼-in. pots	2 50

GERANIUMS

	Per 100
8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in. pots	4 00
Double Petunias	3 00
Asp. Sprengeri, April 25	2 00

Asparagus Plumosus Seed, new crop.....$2 00 per 1000

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

Send Advts. Early for Best Service.

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Chicago.

Bowling was resumed last Friday evening at Bensinger's alleys, 118 East Monroe street, with 19 men in attendance. The scores were as follows:

D. Erickson	152	137	146
George Asmus	155	148	128
F. Ayers	137	138	98
A. Zech	178	160	178
	622	583	550
F. Kraus	131	70	100
E. Armstrong	107	116	156
A. Barnett	130	152	127
J. Zech	191	165	208
	559	503	591
F. Pasternich	90	153	126
William Wolf	136	200	152
J. Byers	125	136	118
J. Michelson	129	129	157
A. Pasternich	120	85	68
	600	703	621
E. Schulz	124	173	98
Max Ringier	114	150	103
Otto Goerisch	99	113	163
W. Graff	176	122	133
M. Jensen	129	116	110
	642	574	607

At Louisville.

The Florists' bowling club met Monday night and enjoyed a very good time, Capt. Ross Walkers' team defeating Capt. Geo. E. Schulz's team two out of three. Following are the scores:

Ross Walker	124	199	165
James Doerr	107	153	159
Geo. Stark	128	117	115
Fred L. Schulz	125	136	94
Andy Brand	155	123	187
Jacob Schulz	138	117	95
	777	845	815
Geo. E. Schulz	158	157	139
Wm. G. Walker	151	138	104
Jos. Wettle	135	129	122
Louis Kirch	180	110	107
Karl Rabe	102	118	80
———	110	110	110
	836	762	662

Ross Walker was high with 199 and Karl Rabe was low with 80.

F. L. S.

At New York.

The following were the bowling scores April 19:

Manda	99	112	164
Meisem	192	170	207
Berry	96	120	155
Zangen	146	133	137
Donaldson	182	159	159
Scott	124	128	117
Wallman	125	124	132
Faulkner	105	102	93

CARNATIONS

Rooted Cuttings

	Per 100	1000
Mrs. J. C. Vaughan,	$12 00	$100 00
O. P. Bassett,	8 00	60 00
per 500	$35 00	
Mrs. Chas. Knopf,	12 00	100 00
Ruby,	12 00	100 00
Andrew Carnegie,	6 00	50 00
Afterglow,	5 00	45 00
Enchantress,	$3 00	$25 00
Rose Pink Enchantress	3 00	25 00
Sarah Hill,	5 00	45 00
Winona,	5 00	45 00
Winsor,	3 00	25 00
White Enchantress,	4 00	35 00
White Perfection,	3 00	25 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph Street, CHICAGO. 25 Barclay Street, NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

New Carnation **Lucille**

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

CARNATIONS

NOW READY

Bay State, Georgia, Mrs. J. C. Vaughan $12.00 per 100; $100.00 per 1000.

Enchantress, Craig, Imperial, Lawson and Standard kinds, $3.00 per 100.

Send for list of Carnations, Roses and Chrysanthemums.

Chas. H. Totty,

Madison, New Jersey.

GET NEW CUSTOMERS By placing your specialties before the purchasing florists of the entire country by advertising in

Send Copy Now. THE AMERICAN FLORIST.

Washington.

A BUSY WEEK.

The past week was an exceptionally busy one. Large evening gatherings, many teas, and several notable weddings being the chief events. Those who had specimen plants left over from Easter, readily disposed of them this week. Violets are getting poorer, by degrees. The market is being overstocked with carnations, and many are having special sales of them at 35 and 50 cents per dozen. The retailers are making good use of the apple, cherry, and plum blossoms, which are so effective in decorations.

NOTES.

Geo. Comly was obliged to remove most of his stock from his store on Wisconsin avenue, during Easter week, owing to the sale of the property. He has arranged temporary quarters on M street until the building is reconstructed.

"Better late than never" exclaimed Ellaby of Riverdale when he brought a wagonload of handsome single jonquils to town last Saturday, he had no competitors and disposed of them easily.

Charlie Davis isn't saying much, but he is producing as nice a lot of cowslips as can be secured anywhere in the country. The Pennock-Meehan Co. is disposing of his entire output.

Leonard Graner has successfully grown forget-me-nots and English daisies in pans which are in great demand; he will also have a good crop of early sweet peas.

Deeble & Merritt have formed a partnership, and they expect to keep the city supplied with green goods such as ferns and outdoor decorative material.

Harry Lee is devoting most of his time to the culture of maidenhair ferns; at present he is bringing in quantities of spring flowers.

Geo. C. Shaffer claims he sold 35,000 violets during Easter; he also executed the decorations for the Fitch-Gerhard wedding.

Lloyd Jenkins, who ventured into the growing business last year, claims he is well satisfied with the results so far.

Marche & Co. report a busy week.

Visitor:—W. Smith representing the Boas Paper Box Co. of Philadelphia.

G. S.

Montreal.

COLD WEATHER AT EASTER.

Easter trade was satisfactory, an increase of from 15 to 20 per cent being recorded throughout. Prices for plants were about the same as last year but some fancy prices were paid for made-up baskets. Cut flowers were scarce and prices higher. The supply of plants was about equal to demand except in lilies. Hydrangeas, azaleas and rambler roses sold best after lilies. Delivery was considerably handicapped by the severe weather it being around 10° of frost the last three days before Easter.

NOTES.

Prof. W. Lochhead of MacDonald College gave a lecture on "Fungus Diseases and Their Control" before the Gardeners' and Florists' Club, D. Weir who was to have given the lecture being unable to do so through other business. Prof. Lochhead explained at great length the different classes of fungus, their life and propagation, the prevention and destruction. Bordeaux mixture was recommended in general for all, formula 4. 4. 40. four pounds lime, four pounds blue stone, 40 gallons of water.

President Wm. F. Gude, of the chamber of commerce and J. Henry Small, Jr., president of the board of trade, are members of the committees having in charge the preparations for the Taft dinner early in May. The latter's ceaseless energy and the great amount of work carried on under his direction for the inaugural ball have largely contributed to the precarious condition of his health of late.

W. Pascoe, president of the Gardeners' and Florists' Club has left his position with R. Reford where he had been for the last 18 years and taken a situation with M. B. Davis, corner Peel and Pine avenue. This is a new place and Mr. Pascoe is given a free hand to lay out the ground, build conservatory, forcing house, vinery, etc., and make it one of the finest private gardens around town.

It is greatly regretted that there will be no chrysanthemum show this year, but the gardeners themselves are to blame; there was very little disposition shown to grow stock for a show and much less to work for it.

P. McKenna & Son are building two houses this summer 24x100 feet for plants in general their business demanding a larger supply of well grown plants.

Several florists will have automobile delivery vans this summer. LUCK.

SPRINGFIELD, MASS.—H. S. Hyde is having a greenhouse built on Brush Hill.

MILWAUKEE, WIS.—Benjamin Gregory will erect a boat house on the river between Chambers and Locust streets.

GRAND FORKS, N. D.—Trade was about the same as last year, with F. V. Kent & Co. with cut flowers selling at higher prices. Much pickled stock found its way here.

LITTLE ROCK, ARK.—Tipton & Hurst say they sold 50 per cent more stock and could have sold more had it been at command. Easter lilies were in great demand as plants and carnations, roses and lilies as cut flowers.

ATLANTIC, IA.—The Atlantic Greenhouses report a 25 per cent increase in sales with prices about the same. All plants sold out clean and most of the cut flowers except bulb stock.

FALL RIVER, MASS.—A 15 per cent increase is the report of Chatterton Warburton. Prices were higher in the case of pink flowers. Lilies and bulb stock were short but there was plenty of everything else. Plant trade is greatly on the increase.

WASHINGTON, D. C.—Gude Bros. report a 10 per cent increase in sales with a good supply in all lines. Lilies, azaleas, roses and spireas were the best sellers. Although the force here was increased more than double, it was quite insufficient to wait on the customers.

BALDWINVILLE, MASS.—T. J. Symons is building a greenhouse on the Otter River road.

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond.
Rose pots, $15.00 per 100; 3½-in. pots $18.00 per 100.
Brides, Bridesmaids, Golden Gates, Kaiserin, La France,
Rose pots, $10.00 per 100; 3½-in. pots $15.00 per 100.

OWN ROOTS

Rhea Reid, Chatenay, Richmond, Killarney, American Beauty.
3-in. pots $9.00 per 100; 4-in. pots $12.00 per 100.
Brides, Bridesmaids, Perle, La France,
3-in. pots $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$7 00	$65 00
Maids, grafted	3 50	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Maids	$3 00	$25 00
Brides	3 00	25 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS.**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

Roses

400 sorts; 2½- and 4-in. pots.

See column adv. and prices page 564, April 10.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

A Big Bargain to close out

Asparagus Plumosus, extra strong 4-in., pot bound plants at $8.00 per100; extra fine stock to plant out for cutting. Also a nice stock of 6-in **Pandanus Veitchi** at 75c each. $7.50 per doz.

Cash with order.

WALTER W. COLES, Kokomo, Ind.

ARAUCARIAS

EXCELSA

Fine Stock

5-in. 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls., 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls. 16 to 18-in. high, each, **$1.25** doz. **$14.00.**

VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.

25 Barclay St., NEW YORK.

Stock, Princess Alice, fine for Decoration Day 2-in. 1½c

Heliotrope, Stevia Variegata, Vinca Var., strong, 2-in. 2c.

Dusty Miller, 2-in. 1½c.

Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c.

Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem). 2-in., 2c.

Hollyhock, Single field, $2.00 per 100.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white, yellow: **Swainsona,** alba, $1.00: **Dbl. Petunia,** 10 kinds, $1.00: **Heliotrope,** $1.00: **Vinca Var.,** 90c, $8 00 per 1000: **Alternanthera,** 3 kinds 50c: **Ageratum, Coleus,** 60c., $5 00 per 1000: **Artillery Plant, Flowering Begonias,** $1 25: **Fuchsias,** 8 kinds, $1.00: **Salvia,** Splendens, Bonfire, 90c per 100: **Parlor Ivy,** 75c **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Monrovia	$2 00
Polly Rose	1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

FOR SALE.

Asparagus Plumosus, out of 4-in	$10.00 per 100
Asparagus Plumosus, out of 3-in	5.00 per 100
Periwinkle out of 4-in pots	8.00 per 100
Stevia out of 2-in., variegated	2.00 per 100
Dracena Indivisa out of 2-in	2.00 per 100
Clematis Paniculata, out of 3-inch very strong	5.00 per 100
Clematis Paniculata, out of 2-inch extra strong	2.00 per 100

Cash with order.

SAMUEL V. SMITH, 3323 Goodman Street, **Philadelphia, Pa**

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo. S Kalb, fine early: Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset, Jeannie Nonin, October Frost, Early Snow, Angele Laurent.

Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean, Pink Ivory, Rosette.

Yellow—Major Bonnaffon, Cremo, Robt. Halliday, "Baby," small yellow of the button type.

50,000 Rooted cuttings ready. Send for prices.

WM. SWAYNE, Box 226, KENNNETT SQUARE, PA.

CHRYSANTHEMUMS

We have the following ready for immediate delivery, which are the best for commercial use. We do not include the Exhibition sorts, but will be pleased to quote those desiring such. 25 of a kind at 100 250 at 1000 rate.

EARLY.

Clementine Touset.—Second early white, Oct. 20.
Early Snow.—Similar to Polly Rose, Oct. 10.
Glory of Pacific.—Pink, Oct. 15.
Ivory.—White, very popular, Oct. 20.
John K. Shaw.—Ball shaped, pink, Oct. 5.
Monrovia.—Best second early yellow, Sept. 25.
Miss A. Byron.—Ball shaped white, second early.
October Frost.—Earliest large white, Oct. 10.
Pink Ivory.—Second early pink.
Polly Rose.—White sport from Pacific.
Robert Halliday.—Light yellow, Oct. 20.

MIDSEASON.

Col. D. Appleton.—Best commercial yellow, Nov. 1.
Dr. Enguehard.—Pink, easy doer, Nov. 10.
Mrs. H. W. Buckbee.—Ball shaped white, Nov. 1.
Mrs. H. Robinson.—Incurved white, Oct. 25.
Major Bonnaffon.—Incurved light yellow, Nov. 1.
Mayor Weaver.—Bright pink, Nov. 10.
Silver Wedding.—Pure white flat flower, Nov. 10.
Timothy Eaton.—Large white, Nov. 5.
Viviand Morel.—Bright pink, Nov. 5.
Yellow Eaton.—Large yellow, Nov. 5.

LATE.

Helen Frick.—Best bright pink, Nov. and Dec.
Mlle. Jeanne Nonin.—Largest white, Nov. and Dec.
John Burton.—Latest pink, Dec.
Lavender Queen.—Light lavender, Nov. 20.
Minnie Bailey.—Pink, Nov. 20.
Mrs. J. Jones.—Incurved white, Nov. 15.
Nagoya.—A good late yellow, Nov. 20.
White Bonnaffon.—Incurved white, Nov. 15.
Yanoma.—Reflexed pure white, Nov. and Dec.
Yellow Mrs. Jones.—Sport from Mrs. Jones, Nov. 15.
PRICE.—Plants, $3.00 per 100, $25 per 1,000. Rooted Cuttings, $2 per 100; $17.50 per 1,000.

MIDSEASON.

A. J. Balfour.—Dwarf bright pink, Nov. 10.
Crocus.—Fine light yellow, Oct. 25.
Golden Wedding.—Bright yellow, Nov. 15.
Mrs. E. D. Smith.—Dwarf incurved yellow, Nov. 1.
Ongawa.—Beautiful bronze, Oct. 25.
Pres. Roosevelt.—Incurved white, Nov. 15.
Sunburst.—Thanksgiving yellow.

LATE.

Intensity.—Bright crimson, Nov. 10.
Venetta.—Incurved white, late bud, Dec. 1.
W. H. Chadwick.—Incurved white, Nov. and Dec.
PRICE.—Plants, $4 per 100, $35 per 1,000. Rooted Cuttings, $3 per 100, $25 per 1,000.
Beatrice May.—Very large white, Oct. 20.
PRICE.—Plants, $5 per 100, $45 per 1,000. Rooted Cuttings, $4 per 100, $35 per 1,000.
Golden Glow.—Best early yellow, Aug. to Oct.
Pacific Supreme.—An improved Pacific, Oct. 15.
White Cloud.—Early midseason white, Oct. 25.
Golden Chadwick.—Excellent late yellow, Nov. and Dec.
W. J. Crossley.—A crimson to follow Intensity.
PRICE.—Plants, $6 per 100, $50 per 1,000. Rooted Cuttings, $4 per 100, $35 per 1,000.
Chadwick Improved (New).—Pure white.
Mrs. J. Boxall (New).—Incurved pink late.
PRICE.—Plants only $2 per 10, $15 per 100.
Pres. Taft (New).—Fine incurved white, Nov. 1.
Gloria (New).—Enchantress pink, Oct. 10.
Mrs. W. E. Kelley (New).—Late bright yellow, Nov. 15.
PRICE.—Plants only $4 per 10, $35 per 100.

POMPONS

Alma.—Soft Lavender.
Emo.—Small bright yellow.
Iva.—Amber.
Kent.—Dwarf yellow.
Klondike.—Bright yellow.
Lulu.—Pure white.
Orea.—Deep rose.
Skibo.—Chamois early.
PRICE.—Plants, $3 per 100, $25 per 1,000. Rooted Cuttings, $2.50 per 100, $20 per 1,000.

We have many other varieties in stock. If the foregoing does not supply your need, send us a list of your wants. For more complete description see our catalogue, which gives best bud, height of plant and flowering period. **It is free on application.**

This advertisement will be changed each week to compare with stock on hand.

ELMER D. SMITH & CO., Adrian, Mich.

GRAFTED ROSES

On Selected Manetti.

Clean, healthy wood. Grown especially for grafting.

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland,
$20.00 per 100:

Rhea Reid,
$15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

JACKSON & PERKINS CO., Newark, New York.

---

300 for $5.00

Geraniums, best vars., **Cinerarias, Primulas, Heliotropes,** Double **Petunias** (Dreer's), **Ivy Geraniums, Vincas,** var., **Cigar Plants,** fine plants, out of 2½-in.

Cinerarias, 4-inch.....$5.00 per 100
Pansies, fine plants..... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

YOU ARE INTERESTED IN

May Day

as a day of **Cut Flowers and Plants** for Florists. Let us remember this fact and make May Day the banner day of the year. Ask for our list of **Soft Wooded Plants, Roses, Carnations, Ferns, Cannas, etc.**

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

Bedding Plants

Per 100

Ageratum, Little Blue Star: **Alternantheras,** 4 kinds R. C., 60c per 100: 2¼ in $2.00
Asters, Dreer's best varieties 2¼-in . 2.50
Alyssum, Double Giant and Dwarf; **Coleus,** 10 varieties R. C., 75c per 100: 2¼-in 2.00
Geraniums, standard varieties. R C., $1.75 per 100 $15.00 per 1000. 2¼-in., $3.00 per 100, $25 00 per 1000.
Hollyhocks, double, separate colors, 2¼-in .. 2.50
Lobelia Compacta and Speciosa. 2¼-in 2 50
Salvias, 5 varieties. R.C. $1.00 per 100; 2¼-in. 2.50
Verbenas, separate colors. 2¼-in 2.50
Dracena Indivisa, 4-in.. $12.00 per 100; 5-in..20.00
Vinca Variegated, R C.. $1 00 per 100; 2¼-in. 2.50

Still a few **Cannas** left Do you need any?
A fine stock of **Perennials.** Send for list.

Mosbaek Greenhouse Co., Onarga, Ill.

FLOWER SEEDS.

Pkt

Begonia Dichroa, Ruby......................$ .50
Stocks, Cut and Come Again, asst............ .50
" Early Brompton or Nice, asst........ .50
Salvia, Bonfire, Farinacea.................... .25
" Triumph, Zurich .... .50
Petunia, large flowering, fringed and stained . .50
" Howard's Star, Inimitable .... .25
Lobelia, Lugdenensis, Hamburgia........... .25
" Barnard's Perpetual, White Lady .. .25
Myosotis, Stricta, 3 colors .... .20
" Robusta Grandiflora, 2 colors ..... .20
Poppy, Alpine, fine for pots 15

All other standard varieties in fresh stocks.
Catalogue on application
Fresh Tobacco Stems, $1.50 per 300 lbs.

W. C. BECKERT, North Side, **Pittsburg, Pa.**

Miscellaneous Spring Bedding Stock.

Cannas, Moss-rooted, 6 to 12 in-high Allemania, Kate Gray Chas. Henderson, Burbank, Washington .... $5 00 per 100
Geraniums strong, 4-in. .... 7 00 per 100
Vinca Variegated, 3 to 4-in......$5 00-10 00 per 100
Alyssum, Little Gem, 2½ in.... 2 50 per 100
Ageratum Dwarf Blue, 2½ to 3 2 50- 3 00 per 100
Cobeas, 3-in .... 5 00 per 100
Coleus 2¼ to 3-in............... 2 00- 3 00 per 100
Dracæna Ind.. 3-in .... 5 00 per 100
Dusty Miller 2¼-in............ 2 00 per 100
Verbenas 2 to 2½-in .... 2 00-3 00 per 100
Salvia 3-var. 2½ to 3-in .... 2 50-3 00 per 100

WEST END GREENHOUSES, Lincoln, Ill.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors extra fine stock, all transplanted. Per 100
First size in bloom and bud $1.25
Second size, in bloom and bud.............. 1 00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**
Grower of the Finest Pansies.

BUFFALO, N. Y.—Superintendent Seymour, of the parks department, is asking for an appropriation of $10,000 for a new greenhouse in Delaware park.

ORANGE, N. J.—F. C. Read's store was broken into by boys April 11. The store was disarranged and some small change taken but nothing of any great value.

JOHNSTOWN, PA.—Wm. Schmidt made an extra fine Easter show in his new store at 120 Franklin street as well as in the old store at 200. All his stock was home grown.

BALTIMORE, MD.—Philip August Albrecht, of Lauraville, died at the age of 63 at his home, April 10. Mr. Albrecht had long been interested in horticulture, especially in greenhouse aquatics.

DUBUQUE, IA.—There is a movement to locate a horticultural vacation school or camp here on park grounds, with local and eastern educators and lecturers at the head. Three acres of ground on a beautiful high spot (300 foot elevation) within a stone's throw of the river have been secured for camping, tents, etc., planning for permanent buildings to go up to make it a permanent affair. Young florists will be invited to camp with us this summer and we expect to open June 21-28.—H.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Ferns. Boston 3-in. pots, $4.00 per 100.
Cannas, King Humbert, 3 in. pots $5.00 per 100.
Carnations. R. C., from soil, $2.00 per 100—Pink: Enchantress, Dorothy Winsor; Scarlet—Elbon; White—Flora Hill B., Market—$3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud Pacific Supreme, Golden Glow, 2½-in pots $5 00 per 100.
Clematis Paniculata, 4-in. pots, $1.50 per doz. $10 00 per 100; 3-in. pots $5.00 per 100
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2 00 per doz.
Geraniums, best commercial varieties, 3-in. pots, $4 00 per 100
Rose Geraniums, 3-in. pots, $4 00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100.
Vinca Variegata 2½-in. pots. $3.00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Heliotrope blue and white; Fuchsias 4 varieties; Phlox Drummondi, dwarf; Lobelia Emperor William; Salvia Bonfire and Zurich; Saxifraga Sarmentosa Verbenas: Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum Inimitable; Feverfew, Little Gem; Coleus Verschaffeltii and Golden Bedder quadricolor Golden Feather.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1 00 per 100.
Geraniums, Nutt Doyle, Perkins Ricard, Grant, La Favorite, R C., $1 25; 2-in. pots $2 00; 3-in., $4 00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2 50; 3-in., $5 00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in. $3.00 per 100; 3-in., $5 00 per 100.
Boston Ferns, 5-in., 30c each.
Vinca Var., 2-in., $2.00 per 100. 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Rex Begonia, $5.00 per 100.
Coleus, red and yellow $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia). Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas.** Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newport, N. J.

Don't get deceived by cheap stuff, but buy the genuine

Moonvines

(Ipomoea Noctiflora)

which has stood the test for the last 25 years. Best white Moonvine, for which we have a world-wide reputation, now ready, 2½-in. pots, $5.00 per 100.

GODFREY ASCHMANN
Importer, Wholesale Grower and Shipper of Pot Plants.
1012 W. Ontario St., PHILADELPHIA, PA.

LARGEST STOCK OF ALL

Belgian Plants

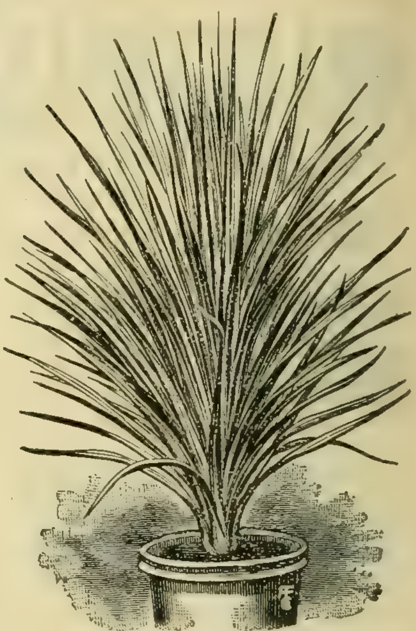
AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Carnations, Geraniums, Asparagus.

Send for low price list. I have no agents. Buyers get the benefit of their commissions.

ALBERT M. HERR, Lancaster, Pa.



Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

Size	Doz.	100
3-in. pots	$0.75	$ 6.00
4-in. pots	1.50	12.00
6-in. pots	6.00	45.00
7-in. pots	7.00	

Asparagus Plumosus Nanus

Size	Doz.	100
3-in. pots	$0.75	$ 6.00
4-in. pots	1.50	12.00

Adiantum Cuneatum

3-in. pots ....per doz., $1.00
4-in. pots ....per doz., 1.50

English Ivy

4-in. pots ....per doz., $1.50
5-in. pots ....per doz., 2.00

Single Dahlias

	Doz.	100
John Downie, scarlet	$0.75	$ 5.00
John Cowan, crimson	.75	5.00
Fashion, crimson maroon	.75	5.00
Ami Bartlett, red leaf, pink	.75	5.00
Sunningdale, blush white	.75	5.00
Sunningdale, mixed double yellow	....	3.00
Sunningdale, mixed, all colors	....	3.00
Mrs. Geo. Reed, purple and white	1.00	....

Show Dahlias

	Doz.	100
Thatcher, yellow	$1.25	$10.00
A. D. Livoni, quilled pink	1.25	10.00

Decoratve Dahlias

	Doz.	100
C. W. Bruton, all large yellow	$1.25	$10.00
Countess of Lonsdale	1.25	10.00
Sylvia, pink and white	1.25	10.00
Oban, rosy lavender	1.25	10.00
Mrs. Geo. Reed, purple-white tint Cactus Dahlia	1.25	10.00
Chas. Woodbridge, bright crimson	1.25	10.00
Kriemhilde, pink, shading to white	1.25	10.00
Professor Baldwin, cochineal red	1.25	10.00
Miss A. Nightingale, bright carmine	1.25	10.00

Cannas	Doz.	100
One Lot Mixed, all kinds	....	$ 6.00
Allemannia	$1.50	12.00
Burbank	1.50	12.00
Charles Henderson	1.00	8.00
Chicago	1.00	8.00
Discolor	1.50	8.00
David Harum	1.50	8.00
Egandale	1.50	8.00
Florence Vaughan	1.00	8.00
King Humbert	1.50	8.00
L. Patry, 4 ft	1.50	8.00
Mlle. Berat	1.50	8.00
President Cleveland	1.50	8.00
Mme. Crozy	1.50	8.00

Send for complete price list of Decorative Plants, Trees, Shrubs and Hardy Herbaceous Stock.

The Geo. Wittbold Co.,
1657 Buckingham Place, CHICAGO.

HEADQUARTERS FOR

ARAUCARIAS

"By jingo," was the remark of a bright looking gentleman as he stepped with his lady friend into one of our Araucaria houses. "If these are not the best shaped and finest looking specimens of **Araucaria Robusta Compacta, Glauca** and **Excelsa** I have ever seen *then I am a shade.* ☞ Just look! What a sight this time of the year, one as nice as the other!"

Araucaria Robusta Compacta, Glauca and Excelsa. Our reputation of being one of the largest importers and shippers of this beautiful evergreen decorative plant is so well known, dating far back into the nineteenth century that our name, as well as the Araucaria itself, shall never die out and is still fresh in people's minds same as when we first started. Why the Araucaria is so popular is because it is an ancient plant, kept by Greeks and Romans as a special favorite in their household, as a good omen. As big as an elephant, for 75c; as big as a jumbo for $1.00; and as big as a holy terror, for $1 25 to $1.50.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants 6-7 8 in. pots, 4-5 year old, 4 5-6 tiers 20-25-30-32 in high, same in width, $1.50 $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old 4-5-6 7 tiers 6-in. pots 20-25 30-35 in high 75c, $1.00, $1.25, $1.50 each. Can meet all applications.

GODFREY ASCHMANN

Importer Wholesale Grower and Shipper of Pot Plants.

1012 W Ontario St., **PHILADELPHIA, PA.**

Geraniums

	Per 100
4-inch stock, 15 000 plants, cool grown, 6 standard varieties.	$6.00
Mme. Salleroi, 2-in., $3.00 per 100; 3-in.	5.00

BEDDING AND OTHER STOCK.

English Ivy, 4½-in., 3 to 4 ft. long, fine stock	.15c each
Vincas, variegated, extra large, 3-in.	$3.00 per 100
Grave Myrtle, 2½ in.	3.00 per 100
Swainsona, extra large flower, pure white 2½-in	4.00 per 100
Coleus, R C., 8 varieties	.75 per 100

N. C. MOORE & CO., Morton Grove, Ill.

ROOTED CUTTINGS AND PLANTS

Good Stock. Low Prices.

Coleus, bedders, 50c; **Fuchsias,** 5 kinds, 90c; **Pilea,** 70c; **Alternanthera,** red and yellow, 45c; **Vinca Variegata** 70c; **Ageratum,** blue 50c; **Heliotrope,** 80c; **Dbl. Petunias,** $1.00 per 100. Cash. If by mail add postage. **Primula,** Obc. Grandif. Lilac, 2¼-in., strong stock, $1-75 per 100; 200 for $3.00. Cash.

Shippensburg Floral Co., Shippensburg, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.

Formerly Garfield Park Flower Co.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25 00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN, MASS.

GERANIUMS

We have an immense stock of fine plants from 2-in. pots at $2 00 per 100, $18.50 per 1000 and up We will send 1000 50 each of of 20 good sorts, our selection for $18.50 cash, or we will send 1000 from 3-in. pots in good assortment for $3.00 per 100; $25.00 per 1000.

	Per 100 2-in.	3-in.
AGERATUM, 5 kinds	$2 00	$3 00
ALYSSUM, Dwarf and Giant	2 00	
CENTAUREA, Gymnocarpa	2 00	3 00
ACHRYANTHES, Emersoni and Mosaica	2 00	3 00
CINERARIA, Maritima	2 00	3 00
HARDY ENGLISH IVY,	2 00	
PARLOR IVY, Senecio Scandens	2 00	
LOBELIA, Kathleen Mallard	2 00	3 00
LOBELIA, Crystal Palace Gem	1 50	
PETUNIAS, Dreer's Single Superb	2 00	
SAXIFRAGA, Sarmentosa	3 00	

	Per 100 2-in.	3-in.
SALVIA, Bonfire	$2 00	$3 00
SALVIA, Zurich	3 00	4 00
SMILAX, Extra strong	2 00	
VERBENAS, Red White, Pink and Blue	2 00	
COLEUS, Verschaffeltii, Golden Bedder, Queen Victoria, Eldorado	2 00	
TRADESCANTIA, Dark variegated	2 00	
HARDY POMPON CHRYSANTHEMUMS, 75 varieties	2 00	

Write for prices on large lots. We will make interesting special prices for cash.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

Fresh Stock, Guaranteed True Type.

ORCHIDS

No Greenhouses, Direct to You.

JUST ARRIVED.

100 cases **Cattleya Trianae** in perfect condition. If potted now, **will flower this season.** Order at once.

Dendrobium Nobile, Wardianum and **Thyrsiflorum** in two weeks. Splendid specimens if desired.

Cattleyas in all varieties. **Miltonia Vexillaria** now.

G. L. FREEMAN, 388 Appleton St., **Holyoke, Mass.**

Pelargoniums..

Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl. $1.00 per 100 $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5 00 per 1000. All rooted cuttings.

Express prepaid on rooted cuttings. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00
Brilliantissima (best red)	60c	5.00

J. W. DAVIS,

225 W. 16th St., DAVENPORT, IOWA

Orchids

Fresh Arrivals

We offer **superb** plants of **Cattleya Trianae,** plump and well leaved of the finest type known for quick sales, as follows: $125.00, $175.00 and $250.00 per 100 plants; by the case of 400 bulbs selected plants $55 00 Also **Oncidium Varicosum Rogersii,** extra fine stock plants, with 3, 4 and 5 bulbs $125 00 per 100; in 500 lots, at $110 00 per 100, net cash.

The following have also arrived in fine shape:

Oncidium Splendidum O. Leucochilum, O. Crispum, O Forbesii O. Sarcodes, O. Wentworthianum Odontoglossum Grande, Miltonia Candida, M. Spectabilis, M. Flavescens Lycaste Skinneri, Scuticaria Steelii, Zygopetalum Crinitum, Z. Gautierii, Cattleya Warneri Phalænopsis Amabilis, P. Schilleriana Vanda Sanderiana

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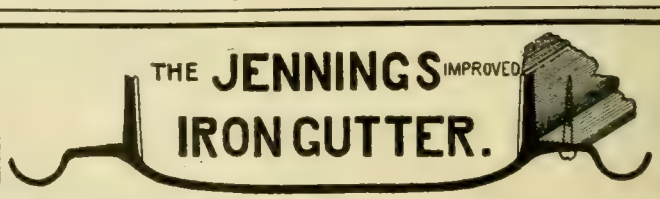

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White Bonnaffon	2.50	20.00	3.00	25.00
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Dr. Enguehard	2.50	20.00	3.00	25.00
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Palms. Washingtonia, robusta, Chamaerops excelsa and humilis and Phoenix Canariensis, 3-in. pots, $4.00 per 100; $30.00 per 1,000. Robusta, field-grown, 1 to 2 ft., $15.00 per 100. Enonymus Japonicus and grevillea, 3 and 4-in. pots, $4.00 per 100; $30.00 per 1,000. Dracæna indivisa, 4-in. pots, 14 to 18 in., $3.50 per 100; $30.00 per 1,000; transplanted, 1-year-old, 12 to 15 in., $1.50 per 100; $5 per 1,000. Acacia melanoxylon and floribunda, 3-in. pots, 14 to 18 in., $4.50 per 100; $30 per 1,000. F. O. B. Cash. Los Medanos Nursery Cornwall, Calif.

Palms, Areca lutescens, 4-in., 3 pits. in pot, 15-18 ins. high, $3 per doz.; $20 per 100. Kentia Bel., 6-in., 6 lvs., 24-26 ins., $1.75 each; 7-in., 6-7 lvs., 26-28 ins., $2; 7-in., 6-7 lvs., 30-32 ins., $3. Kentia Fors., 6-in., 5-6 lvs., 30-32 ins., $1.50; 6-in., 5-6 lvs., 34-36 ins., $2; 7-in., 5-6 lvs., 36-40 ins., $3. Latania Borb., 3-in., 3-4 lvs., 12-14 ins., $1 per doz.; $8 per 100; 4-in., 4-5 lvs., 14-16 ins., $2.50 per doz., $20 per 100. Phœnix Rœbeleni, 4-in., 75c each; $8 per doz. Vaughan's Seed Store, Chicago and New York.

Palms, Kentia Bel., 7-in., 32 to 34 ins., $2.50 each; 7-in., 36 to 38 ins., $3 each; 9-in., 42 to 48 ins., $5 each. Made-up Kentia Fors., 9-in. tubs, 42 to 48 ins., $5 each; 12-in., 4 plants in tub, 6 ft., $15 each. Joseph Heacock Co., Wyncote, Pa.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

PANSIES.

Pansies, Jenning's strain, 1st size in bud and bloom, $1.25 per 100; 2nd size, bud and bloom, $1 per 100; strong plants bloom in April, $5 per 1,000; smaller size, $4; seeds, $1 per pkg.; 4,000 seeds, $4 per oz. E. B. Jennings, box 254, Southport, Conn.

Giant pansy plants, stocky, from fall sown seed, 50c per 100, prepaid; 1,000, not prepaid, $3.50. Chas. Frost, Kenilworth, N. J.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

Pansies, $2.50 per 1,000; 5,000, $10. J. C. Schmidt, Bristol, Pa.

PANDANUS.

Pandanus utilis, 5-in., 15-18 ins., 50c each; $4 per doz. Vaughan's Seed Store, Chicago and New York.

Pandanus Veitchii, 6-in., 75c each; $7.50 per doz. W. W. Coles, Kokomo, Ind.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

PETUNIAS.

Petunias, Dreer's single superb, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., $3 per 100. Jos. H. Cunningham, Delaware, O.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

PRIVET.

AMURENSE. AMOOR RIVER PRIVET, 12,000 for transplanting at $9 per 1,000; 6,000, 12 to 18 ins., $11 per 1,000; 10,000, 18 to 24 ins., $14 per 1,000. Cal. privet, 15,000 transplanting, $6 per 1,000; 10,000, 12 to 18 ins., branched, $10 per 1,000; 2,000, 30 to 36 ins., 6 to 10 branches, $20 per 1,000, f. o. b. Cash with order. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

RHODODENDRONS.

Rhododendrons. Parson's hardy vars., 8 to 12 buds, 18 to 24 ins., $75 per 100; 12 to 14, 24 to 30 ins., $100 per 100. Storrs & Harrison Co., Painesville, O.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROSES.

Roses, dormant, Debutante, 2-yr.; Tausendschon, Gruss an Zabern, Sweetheart, $1.50 per doz.; $12 per 100. Hiawatha, $2 per doz.; $15 per 100. Baby Rambler, 1st size, 2-yr., $3 per doz.; $20 per 100; 2nd, $2.50 per doz.; $16 per 100; 3rd, $1.50 per doz.; $10 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, 1-yr. bench, Am. Beauty, $7 per 100; $65 per 1,000. Maid, grafted, $3.50 per 100; $30 per 1,000. From 2½-in.: Maid, Bride, $3 per 100; $25 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Richmond, Bride, Bridesmaid, Wellesley, Mrs. Potter Palmer, Mme. Abel Chatenay, 2-in. pots, $3 per 100; $25 per 1,000; 2½-in. repotted from 2-in., $5 per 100; $40 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

Roses, 400 sorts, 2½ and 4-in., for prices and varieties, see adv. page 564, April 10 issue. Leedle Floral Co., Springfield, O.

GRAFTED AND OWN ROOT ROSES.

Grafted, 2½-in. pots.	Per 100.	Per 1,000.
My Maryland	$20.00	$150.00
Mrs. Jardine	15.00	120.00
Rhea Reid	15.00	120.00
Killarney	15.00	120.00
Richmond	15.00	120.00
Bride	15.00	120.00
Bridesmaid	15.00	120.00
Own Roots, 2½-in. pots.		
Mrs. Jardine	8.00	75.00
Rhea Reid	10.00	85.00

ROSE PLANTS.
2½-Inch Stock.

	Per 100.	Per 1,000.
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
K. Moulton	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Killarney	5.00	45.00
Kaiserin	4.00	35.00

WIETOR BROS.,
51 Wabash Avenue, Chicago, Ill.

ROSES.

	Per 100.	Per 1000.
American Beauty, 2½-in.	$7.00	$65.00
American Beauty, 3 or 3½-in.	9.00	85.00
My Maryland, grafted, 3½-in.	20.00	
My Maryland, own roots, 3½-in.	12.00	
Killarney, own roots, 2½-in.	6.00	55.00
Killarney, own roots, 3½-in.	7.50	
Bridesmaid, 2½-in.	5.00	45.00
Bridesmaid, 3½-in.	6.50	
Bride, 2½-in.	5.00	45.00
Bride, 3½-in.	6.50	
Richmond, 2½-in.	5.00	45.00
Richmond, 3½-in.	6.50	
Mrs. Potter Palmer, 2½-in.	5.00	45.00
Mrs. Potter Palmer, 3½-in.	6.50	
Perle, 2½-in.	5.00	45.00
Perle, 3½-in.	6.50	
Kaiserin, 2½-in.	5.00	45.00
Kaiserin, 3½-in.	6.50	
Uncle John, 2½-in.	4.00	35.00
Rhea Reid, 2½-in.	5.00	

POEHLMANN BROS. CO.,
Morton Grove, Ill.

Roses, dormant, field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing, C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, hybrid perpetual, dormant field-grown, $11 per 100; $100 per 1,000. Moss, field-grown, $12 per 100. Hardy climbing, field-grown, $8 per 100. Tree roses, 4 to 5 ft., $30 per 100. Storrs & Harrison Co., Painesville, O.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, Richmond, Bride, Bridesmaid, 2-in., $2.50 per 100; $20 per 1,000; 2½-in., $3 per 100; $25 per 1,000; 3-in., $4 per 100; $35 per 1,000. E. B. Sage, Red Rock, McKean Co., Pa.

Roses, 2,500 2 to 2½-inch Richmonds, fine stock, $25 per 1,000. Sinner Bros., 60 Wabash Ave., Chicago.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses. Ask for our catalogue and get your rose lists priced. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

Roses, Bride, Richmond, Killarney, 2½-in., own roots. Thorn Hedge Greenhouses, Newtown Square, Pa.

OWN ROOT ROSES, 2½-in. pots.

Bride, Bridesmaid, Richmond, Mrs. Potter Palmer, Cardinal, Rhea Reid, $5 per 100; $40 per 1,000. Strong, clean stock.

S. J. REUTER & SON, INC.,
Westerly, R. I.

Roses, Kaiserin, 2½-in., $4 per 100. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses. Geo. A. Kuhl, Pekin, Ill.

Roses, Crimson Rambler, Trier, Dorothy Perkins, Lady Gay, $3 per 100; $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, dwarf, climbing, tree and ramblers. Bobbink & Atkins, Rutherford, N. J.

Roses. Chas. H. Totty, Madison, N. J.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

SALVIAS.

Zurich, type selected for 2 years, R. C., $1 per 100; $9 per 1,000; 3-in., 5c. Bonfire and Lord Fauntleroy, R. C., 1c; 3-in., 5c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Salvia Bonfire, 2-in., $2; 3-in., $3 per 100. Zurich, 2-in., $3; 3-in., $4 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia splendens. Bonfire, R. C., 90c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

SEEDS.

Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis, Hambergia, pkt., 25c; Barnard's Perpetual White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi, 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette. New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. Zangen, Hoboken, N. J.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds of all kinds. Stokes' Seed Store, 219 Market St., Philadelphia.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds. Asparagus plumosus manus, 1,000 seeds, $2; 6,000, $10; 13,000, $20; 25,000, $35; 50,000 $62.50; 100,000, $100. F. Gilman Taylor, 630 Hellman Bldg., Los Angeles.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seed, Asparagus plumosus, $2 per 1,000. Jos. H. Cunningham, Delaware, O.

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Seeds, Asparagus plumosus, 1,000 seeds, $2; 6,000, $10; 13,000, $20; 25,000, $35; 50,000, $62.50. F. Gilman Taylor, 630 H. W.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton Zvolanek, Boundbrook, N. J.

Seeds. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SEEDLINGS.

Seedlings from flats: Alyssum, Carpet of Snow; heliotrope, blue and white; fuchsias, 4 vars.; Phlox Drummondi; Lobelia Emperior William, Salvia Bonfire; Saxifraga sarmentosa; verbenas, parlor ivy, tradescantia, Achyranthes Lindeni; petunias, Ageratum Inimitable; Feverfew Little Gem; Coleus, Verschaffelti and Golden Bedder; goldenfeather, seedlings from flats, $1 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

SMILAX.

Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spireas, J. Smits, Ltd., Naarden, Holland.

STEVIA.

Stevia, 2-in., 90c per 100. S. V. Smith, 3323 Goodman St., Philadelphia.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

Swainsona, 2½-in., $4 per 100. N. C. Moore & Co., Morton Grove, Ill.

VEGETABLE PLANTS.

Vegetable plants, cabbage: Wakefield, Succession, $1.50 per 1,000. Egg plant: N. Y. Improved Black Beauty, 40c per 100; $3 per 1,000. Peppers: Bull Nose, Ruby King, Sweet Mountain, 40c per 100; $3 per 1,000; Chinese Giant and Cayenne, 50c per 100. Tomatoes: Earliana, Chalk's Jewel, Early June Pink, 30c per 100; $2 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, red, white, pink, blue, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Lemon Verbenas, R. C., 75c per 100 prepaid. Chas. Frost, Kenilworth, N. J.

Verbenas, $2 per 100. Jos. H. Cunningham, Delaware, O.

VINCAS.

Vinca Var., finest stock, long and heavy, $10 and $12.50 per 100. Bellamy Bros., 207 Delaware St., Syracuse, N. Y.

Vinca Variegated, 3-in., $3 per 100. Grave myrtle, 2½-in., $3. N. C. Moore & Co., Morton Grove, Ill.

Vinca var., 2½-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vincas, var., 2¼-in., $2.50 per 100. Jos. H. Cunningham, Delaware, O.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

VIOLETS.

Violets, Baronne Rothschild, the freest, most fragrant and best paying single violet, R. C., $10 per 100. Chas. H. Totty, Madison, N. J.

Boston violet, very strong, well rooted divisions, $5 per 100. Geo. Corbett, College Hill, Station K, Cincinnati, O.

Violets. Wood Bros., Fishkill, N. Y.

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Stock wanted: Gladiolus May, Mme. Monneret, Augusta, Princeps, America and Gandavensis mixed to color. Van Meerbeek & Co., Hillegom, Holland.

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Deamud, J. B. Co., 51 Wabash Ave., Chicago.

Ford Bros., 48 W. 28th St., New York.

Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., New York.

Guttman, Alex. J., 34 W. 28th St., N. Y.

Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

Hunt, E. H., 76 Wabash Ave., Chicago.

Kennicott Bros. Co., 48-50 Wabash, Chicago.

Kessler Bros., 50 W. 28th St., New York.

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Langjahr, Alfred H., 55 W. 28th St., N. Y.

McCallum Co., 937 Liberty Ave., Pittsburg.

McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.

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McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.

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Millang Bros., 41 W. 28th St., New York.

Chas. Millang, 444 6th Ave., cor. 27th St., New York.

Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.

Murphy, Wm., 311 Main St., Cincinnati, O.

Niessen Co., Leo, 1208 Arch St., Phila.

N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.

Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.

Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.

Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.

Pollworth, C. C. Co., Milwaukee, Wis.

Randall, A. L. Co., 19 Randolph St., Chicago.

Raynor, John I., 49 W. 28th St., New York.

Rice Bros., 128 N. 6th St., Minneapolis, Minn.

Robinson, Henry M. & Co., 11-15 Province St., Boston.

Schreiner, Nicholas C., 41 W. 28th St., N. Y.

Seligman, John, 56 W. 26th St., New York.

Sheridan, Walter F., 39 W. 28th St., N. Y.

Smith & Co., W. C., 1316 Pine St., St. Louis.

Traendly & Schenck, 44 W. 28th St., N. Y.

Vaughan & Sperry, 58-60 Wabash Ave., Chicago.

Welch Bros., 226 Devonshire St., Boston.

Winterson, E. F. Co., 45-49 Wabash, Chicago.

Young, A. L. & Co., 54 W. 28th St., N. Y.

Young, John, 51 W. 28th., N. Y.

Young, C. & Sons, 1406 Olive St., St. Louis.

Young & Nugent, 42 W. 28th St., New York.

Zech & Mann, 51 Wabash Ave., Chicago.

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Bassett & Washburn, 76-78 Wabash, Chicago.

Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.

Bruns, H. N., 1409-11 W. Madison, Chicago.

Budlong, J. A., 37-39 Randolph St., Chicago.

Elliott, W. H., Brighton, Mass.

Hill, The E. G. Co., Richmond, Ind.

Jensen & Dekema, 674 W. Foster Ave., Chicago.

Peacock Dahlia Farms, Atco, N. J.

Poehlmann Bros., 35-37 Randolph, Chicago.

Reinberg, Peter, 35 Randolph St., Chicago.

State Nursery Co., Helena, Mont.

Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

Weiland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

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Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.

Baltimore, Md.—Z. D. Blackistone, 1601 Eutaw Pl.

Boston, Mass.—Hoffman, florist, 59 Massachusetts Ave.

Boston, Mass.—Frank H. Houghton, 396 Boylston St.

Brooklyn, N. Y.—Robt. G. Wilson, Fulton St. and Green Ave.

Buffalo, N. Y.—Palmer's.

Chicago—Hauswirth, Florist, Auditorium Annex.

Chicago—Wittbold, Florist, 1657 Buckingham Place.

Cincinnati, O.—Julius Baer, 138 E. 4th St.

Dayton, O.—Matthews, 16 W. 3rd St.

Colorado Springs, Colo.—Frank F. Crump.

Denver, Colo.—Daniels & Fisher.

Denver, Colo.—The Park Floral Co.

Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.

Galveston, Tex.—Mrs. M. A. Hansen.

Helena, Mont.—State Nursery Co.

Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.

Kansas City, Mo.—Geo. M. Kellogg Estate, 906 Grand Ave. Also Pleasant Mill, Mo.

Kansas City—S. Murray, 1017 Broadway.

Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.

Louisville, Ky.—J. Schultz, 644 4th Ave.

New Orleans, La.—U. J. Virgin, 833 Canal St.

New York—M. A. Bowe, 1294 Broadway.

Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.

Owatonna, Minn.—Clinton Falls Greenhouses.

Philadelphia, Pa.—R. Kift, 1725 Chestnut St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.

San Francisco, Calif.—J. B. Boland, 60 Kearny St.

St. Louis—Fred H. Weber, Boyle and Maryland.

St. Louis, Mo.—Young's, 1406 Olive St.

St. Paul, Minn.—Holm & Olson.

Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.

Toledo, O.—Krueger Bros.

Toronto, Ont.—Dunlop's, 96 Yonge St.

Washington, D. C.—Z. D. Blackistone, 14th and H Sts.

Washington, D. C.—A. Gude & Bros., 1214 F. St.

BLOWERS.

Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

BOILERS.

Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers. Myers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, New York.

Boilers, boilers of high grade for greenhouses. Steam or hot water. Giblin & Co., Utica, N. Y.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., New York.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

BUILDING MATERIAL.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress;" everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

Building material, cypress sash bars. Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouse and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes. Established 1851. John B. Smith & Sons, Ltd., Toronto, Can.

Building material of all descriptions for all cypress semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard Shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure, also special chrysanthemum and top dressing manure. Wm. Thomson & Sons, Ltd., Clovenfords, Scotland.

FOWLS.

White and Black Swans, Peafowls, White and Pearl Guinea Fowls, etc. Send for catalogue. Edw. S. Schmid, Washington, D. C.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American "White Rose." Stenzel Glass Co., 2 Hudson St., N. Y.

Glass. High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

GREENHOUSE CONSTRUCTION.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, New York.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, New York.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters. Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Fresh tobacco stems in bales; 200 lbs., $1.50; 500 lbs., $3.50; 1,000 lbs., $6.50; ton, $12. Write us for prices on larger quantities. Scharff Bros., Van Wert, Ohio.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

Bordeaux paste and Bordeaux arsenate for mildew and bugs. Niagara Sprayer Co., Middleport, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, Ohio.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

MISCELLANEOUS.

Everlasting tile benches, hollow tile, partition, tile, fire proofing and other clay products. The Cam Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

Printing. Large runs of catalogues a specialty. Write for figures. Regan Printing House, 89-91 Plymouth Place, Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

A Knapsack Sprayer, for greenhouse and lawn spraying. Niagara Sprayer Co., Middleport, N. Y.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Iron fittings; patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Stuttle's patent pipe clamp. Harry Stuttle, Batavia, Ill.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Ideal pipe clamp. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, standard flower pots. The Whilldin Pottery Co., Philadelphia, Pa.; Jersey City, N. J.; Long Island, N. Y.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

Free to Florists—Sample box of Red Pots. George E. Feustel, Fairport, Iowa.

STAKES.

Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 per 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Reservoir vases for cemeteries and parks, from $6 to $100 each. Walbridge & Co., Buffalo, N. Y.

Iron reservoir vases. McDonald Bros., Columbus, O.

VENTILATING APPARATUS.

Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Ventilators. The Advance Ventilating Apparatus. Write for estimates and circulars. The Advance Co., Richmond, Ind.

Foley ventilating apparatus, unexcelled. Send for circulars and estimates. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

THE WHILLDIN POTTERY COMPANY
THE LARGEST MANUFACTURERS OF
STANDARD FLOWER POTS
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The Advance Ventilating Machine

Best on the market at $10.50 all complete. Neat **strong,** easily operated and set up. Arms at 4½c; Hangers, 8c; **Double Strength Pipe, 8c.; Single Strength, 5c.** Painted, straightened, drilled and furnished with our **patent couplings,** the best thing on earth for this purpose. Write today for circular and estimates. We guarantee satisfaction.

THE ADVANCE CO.
RICHMOND, IND.

Cleveland.

TRADE DULL.

The past week has been rather a dull one, the contrast being noticeable in every respect. This week the weather conditions were much more favorable; flowers were plentiful, but sales slow up to Friday, when business again looked up. Carnations sold as low as $15 per 1,000 for good stock. Bride and Bridesmaid roses sold for $15 and up per 1,000. American Beauty had a good run. Sweet Peas had a good sale at good prices for best stock. Lily of the valley was scarce and the demand good. Lilies were plentiful, but not much in demand. One local wholesale house sent out postals on Thursday saying Friday was bargain day, and offered roses at $15 per 1,000 and up, good for Saturday and Sunday trade.

NOTES.

Kirchner Bros. had a runaway the Saturday before Easter. A team of horses attached to a wagon loaded with plants started for home while making a delivery, but, besides a few bruises to both horses and wagon, no damage was done. The plants were thoroughly just outside of the city.

Wm. Brinker reports business in the seed line as excellent this spring, lawn seed and seed potatoes having a big call. He has also good orders for trees to be planted; these are going to the summer homes of business men shaken up, but not broken. C. F. B.

Dayton, O.

Concerning the Easter review of trade in this section, the writer can proudly say that from a business standpoint it was very good and quite ahead of previous years. Many good ideas can be gained each year with one's own experience. The one who grows the best has the least trouble in selling and satisfying. The call this season was for the well grown lilies, and there was enough for all who desired them. The lilacs and spireas are not so popular for various reasons. The lilac bloom is so short-lived and perishable, and for that reason is unsatisfactory and disappointing. The spirea is also a plant that with the slightest neglect withers and dries up. We must have a few, but the lilacs, tulips and daffodils are like the excursion ticket, "good for this day only." We learned, however, from former years' experience that good bulbs of hyacinths, tulips and daffodils can be planted in December in this locality. The weather will dictate how deep to cover them (have your protection convenient, of course), and you can have good, stocky plants just the time you want them. Most people plant too early and cover too deeply.

NOTES.

The National Cash Register Co.'s greenhouses are being operated by only one man. They have given up most of the landscaping and floricultural work, where they used to employ hundreds of men.

The weather here is all that could be asked, although Easter week was a variation of snow, ice and rain. Peonies will hardly make it for Memorial day in this section owing to the late cold weather.

The new street railway passing the retail establishment of Matthews the Florist is a great convenience and brings many new customers, while the improvement adds to the value of the property.

J. Bartholomew reports a good shipping trade and says that Kaiserin rose does as well with him in winter as in summer.

The city parks are beginning to be a blaze of bloom with tulips and hyacinths. M.

Kramer's Pot Hangers
For Sale by Wholesale Seedsmen, Florists and Supply Dealers.
Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.
I. N. Kramer & Son, CEDAR RAPIDS IOWA.

Florist's Red Pots
OF FINELY PREPARED CLAY.
Process and catalogue sent on request.
The Peters & Reed Pottery Co., ZANESVILLE OHIO.

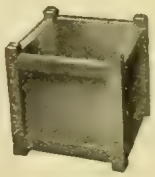
Standard Flower Pots
Porosity and Strength Unsurpassed.
Write for Price.
A. F. KOHR,
1521 Leavitt Street, CHICAGO

Standard Flower Pots!
Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	$4.88	144 6-in., in crate,	$3.16
1500 2¼ "	5.25	120 7 "	4.20
1500 2½ "	6.00	60 8 "	3.00
		HAND MADE	
1000 3 "	5.00	48 9-in., in crate,	$3.60
800 3½ "	5.80	48 10 "	4.80
500 4 "	4.50	24 11 "	3.60
456 4½ "	5.24	24 12 "	4.80
320 5 "	4.51	12 14 "	4.80
210 5½ "	3.78	6 16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.
WAGNER PARK CONSERVATORIES, Sidney, Ohio.

Those Red Pots
"STANDARDS"
FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'F'Y.
HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St.

GEO. KELLER & SON,
Manufacturers of
Red Pots
Before buying write for prices.
361-363 Herndon St., CHICAGO, ILL.

Wired Toothpicks
10,000, $1.75; 50,000, $7.50. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample free. For sale by dealers

Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

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OVER 40% NICOTINE.

Furnishes the Most Nicotine for the Money!

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

By far the CHEAPEST.

JUST NOTE PRICES:

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

REED & KELLER,

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Metal Designs, Baskets, Wire Work & Novelties

and are dealers in **Glassware, pottery, Decorative Greens and all Florists' Requisites.**

PHILADELPHIA, PA.—About 20,000 people it is estimated visited Horticultural Hall, Fairmount park, on the Saturday previous and Easter day to see the splendid spring show of flowers.

MILLBROOK, N. Y.—Frank Sealey who for a number of years has been at the Daheim greenhouses has severed his connection there and taken a position with Miss C. A. Bliss of New Canaan, Conn.

PITTSBURG, PA.—Nicholas Kremer, a gardener, 58 years old, died April 8 after an illness of one week. He was born in Lorraine, and came to this city 35 years ago. He is survived by his widow and four sons.

LONG BRANCH, N. J.—W. G. Eisele has completed his new 60x150-foot steel greenhouse and the King Construction Co., who has had the work in hand, is to be congratulated on the rapidity with which the house has been built. A hot water apparatus has been installed.

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

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Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

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Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S

SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use **1** part to **75** or **100** parts of water.

B. G. PRATT CO., 50 Church St., New York, U. S. A.

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,

FLUSHING, N. Y.

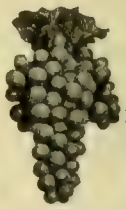
☞ Has stood the test of over Quarter of a Century.

THOMSON'S

Vine, Plant and Vegetable

MANURE

UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



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PERFECT PLANT FOODS

Sold by Leading American Seedsmen.

ALSO

Thomson's Special Chrysanthemum and Topdressing Manure.

Freight paid on quantities. Write for our special offer to the American trade, pamphlets, agents' circulars etc., to sole makers,

WM. THOMSON & SONS, Ltd.,

Tweed Vineyard, Clovenfords, Scotland

"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

A Knapsack Sprayer

With power for Greenhouse and Lawn spraying—nothing like it. Send for photograph and description.

Our Bordeaux Paste and Bordeaux Arsenate

DEATH TO MILDEW AND BUGS.

Why worry when you can have healthy plants and perfect bloom? Don't delay, write us and see what we have to offer you. Address.

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MIDDLEPORT, N. Y.

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The Horticultural Printing Company
BURNLEY, ENGLAND.

GORHAM, ME.—Nathaniel W. Hannaford of Main street has returned from a business trip to Dover, N. H.

NEBRASKA CITY, NEB.—H. H. Cotton sold out his greenhouses and business to Irwin Bertholdt, who took possession at once.

DAYTON, O.—At the meeting of the Florists' Club, April 5, Geo. Bartholomew read a paper on "The Growing and Marketing of Easter Lilies." The speaker handled his subject well and an interesting discussion followed.

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THE IDEAL WINTER SPRAY
SCALE KILLER & FUNGICIDE

POWERFUL CLEANSER AND INVIGORATOR
Mixes Instantly. No Sediment. No clogging. Non-injurious to user
COMPARATIVE TEST WILL PROVE ITS MERITS
Quart, $1.00; Gallon, $3.00
1 gallon makes 100 gallons. Write for descriptive pamphlet and testimony

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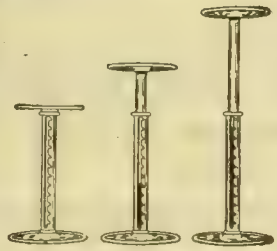

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Green Flies and Black ones too
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The Fumigating Kind Tobacco Powder
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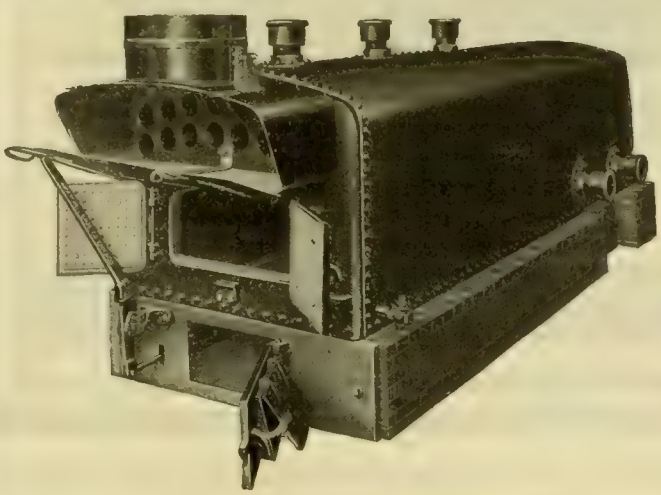
Installed to heat over 6,000,000 (six million) sq. ft. of glass during the past three years.



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THE BOILER AND PIPING SYSTEM, I CAN SAY, IS PERFECT IN EVERY WAY. With the Generator **I can keep low temperatures,** or can get the pipes **so hot we cannot touch them.** In less than twenty minutes all houses are thoroughly and equally heated, no matter how many coils are turned on, and all this is due to the Generator, which costs only $35.00

I feel that **no hot water system should be without a Kroeschell Generator.** Yours truly,

RUDOLPH NAGEL, Lancaster, Pa.

We had no trouble whatever in keeping the required temperature during the recent cold spell **with thermometer at 12 degrees below zero.**

We are glad of the opportunity to **recommend your Generator, Boiler** and **piping plans** to our fellow florists, knowing that when placed as directed they **will give perfect satisfaction. We did our own piping,** and none of us had ever had any experience in that line before. Hoping this will be of some benefit to you, and thanking you for past kindness, we remain,

Very truly yours

NORTH FLORAL COMPANY, Fort Dodge, Ia.

Better, Cheaper than Cast Iron.

1346 Cast Iron Boilers were replaced by "THE KROESCHELL" in 1904, 1905, 1906, 1907,

SEND FOR CATALOGUE

KROESCHELL BROS. CO., 45 Erie St., Chicago

LOUISVILLE, KY.—Mrs. M. D. Riemers has found the Easter plant trade very satisfactory and intends to go into it more largely next season.

INDIANAPOLIS, IND.—Sales at Easter did not quite come up to those of last year and the prices were not quite as good. Plants were in over supply and violets were the only short item in cut flowers.

GALESBURG, ILL.—A 20 per cent increase in sales around the recent Easter at prices about the same as last season is the report of H. F. Drury. There were not enough carnations of good quality and all plants, especially lilies, sold well.

MONCTON, N. B.—The Sunnyside Greenhouses report an increase of 10 per cent in the recent Easter sales, with plenty of stock in all lines except American Beauty roses. The best class of roses and carnations sold well but daffodils and other bulb stock were not wanted. Nearly all plants sold well.

WORCESTER, MASS.—A 25 per cent increase in sales at considerably higher prices was reported after Easter by the Worcester Conservatories, with plenty of all classes of stock. Azaleas, cyclamens and rambler roses sold best in pot plants, while in cut flowers roses, carnations, violets and primroses were ahead. The cut here from 30,000 carnation plants for six days was 27,000, from 8,000 rose plants about 16,000.

BANGOR, ME.—Adam Sekinger reports a 20 per cent increase in sales at Easter over those of last year, at better prices. Roses in pots were scarce but there was a good supply of lilies. Carnations had the least sale and there were not enough violets. The churches all decorated more or less and lilies are greatly in demand. The best plants of rambler roses are also needed, but there is little demand for small stock.

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MOREHEAD

Return Steam Traps

Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.

The Floral Establishment of Mr. George Reinberg, Chicago, Ill., is equipped with **24 Morehead Traps.** Repeat orders. See the point?

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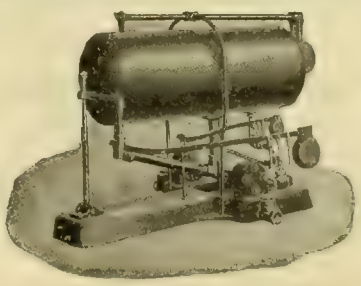
INSTALL A :: :: **"DETROIT" Return Trap**

And You Buy a Guarantee.



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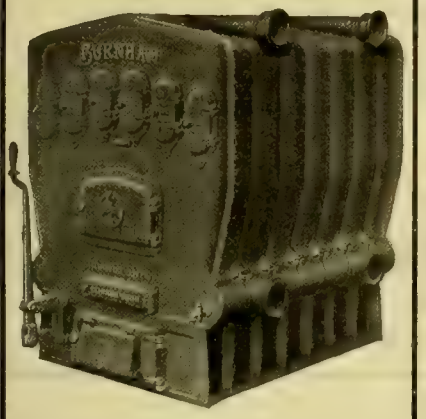

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The Most Economical Type of Boiler for Greenhouse Heating. Highly Recommended by Well Known Florists.

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CHRIS. PFEIFFER BOILER CO.,
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CHICAGO.

We build a special steel hot water boiler shipped ready for operation. No brick required.

Phones; Main 4361. 4399.

COUNCIL BLUFFS, IA.—The L. Lainson greenhouses at 1309 Canning street were damaged to the amount of $75 by a whirlwind which swept that part of the city.

SPRINGFIELD, MASS.—Adolph Miellez, aged 74, widely known as a floriculturist, was almost instantly killed in West Springfield April 13 by falling from his wagon, a broken neck resulting.

SIOUX FALLS, N. D.—M. M. Strong reports a 10 per cent increase in Easter sales over those of last year. Cut flowers were scarce but more plants could have been sold. Most bulbous stock sold well.

HOBOKEN, N. J.—L. Hanley reports a very encouraging Easter trade, cash sales being 50 per cent higher than those of last year at similar prices. There was plenty of all classes of stock except small azaleas and large lilies. Rhododendrons did not get a good call but other pot plants sold well, also all choice cut flowers. Very small plants, retailing for less than 50 cents, were not needed.

LINCOLN, NEB.—C. H. Frey reports a 20 per cent increase in Easter sales over those of last season, with higher prices on lilies. There was plenty of choice stock in all lines. All flowering plants sold well and there was a great demand for all choice cut flowers. The weather was bad, being very cold, and on Saturday the wind blew a gale, carrying with it clouds of dust, but everyone had more business than could be properly handled; people began to buy early, beginning on Monday.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!
A complete line of locomotive, fire box boilers, Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc., some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

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2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

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BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings; we can save you money. Greenhouse fittings at half price.

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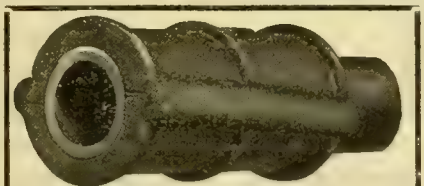

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Will stand any pressure. Always ready to use no nuts and bolts required. Manufactured by
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Cheap as the cheapest joint in use, and 100 per cent. superior. For particulars write the inventor and patentee.
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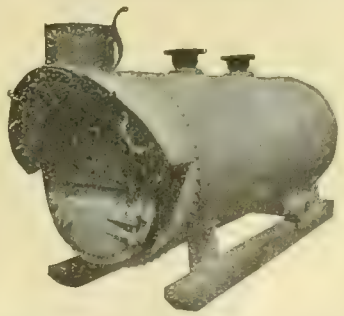
The Superior Improved Internal Fired Boiler
Made in Ten (10) Sizes.



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Best Quality. Hand-made

Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

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FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.

12 W. BROADWAY

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MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

THE BEST WAY

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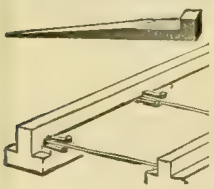
56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



Siebert's Zinc Glazing Points.

Good for small or large glass, do not rust, easy to drive 5/8 and 7/8 inch. Per lb. 40c. 5-lbs. $1.85. 20-lbs. $7.00.

VAUGHAN'S SEED STORE, Chicago or New York.

Calgary, Alta.

The Easter trade in this city has been all that could be expected and a considerable quantity of stock has been sold. There was a scarcity of good cut flowers of all kinds and consequently prices were high. Lilies brought $4 per dozen and roses run from $2.50 to $5. Carnations brought up to $3 per dozen and violets 50 cents per bunch of about a dozen and a half. Big prices are asked here for plants, a good Easter lily with six blooms and buds selling for $2.50. Cinerarias with a nice head of bloom brought $1 and spireas up to $1.50 each. The weather is ideal; in the past month we have had some sunshine every day and generally all day long. The nights are cold but during the day it warms up nicely although there is generally some wind blowing.

A. M. Terrille & Co. are going to build four new houses this year, about 25,000 feet, out at East Calgary. This will be the commencement of a place which it is expected will grow to considerable proportions within the next few years. Their present place, which is in the center of the city and of about 20,000 feet, has been found quite inadequate to supply the ever growing demand and, as there is no room there to expand, it was decided to start a new place further out and in a year or two close up the old place. L.

Attention!! Glass Buyers!!

WHILE IT LASTS—FIRST COME, FIRST SERVED.

A limited stock of "HIGHEST QUALITY" GREENHOUSE GLASS at the following RECORD BREAKING PRICES:

16x18 A, Double Strength.....$2.20
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F. O. B. Chicago, Less 2 per cent. for cash. Mention prices when ordering.

——other sizes at low prices also——

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,

Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

Don't Buy the "Just as Good" Kind

Insist upon "the best" brand

Greenhouse Glass

Made by the

World's Largest Producers

Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

AMERICAN WINDOW GLASS CO.

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A SPECIALTY.

Window Glass, Paint, Putty, etc.

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——Specialists in——

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NO HANDLING. NO BREAKAGE.

Lock the door before the horse is stolen, and insure your glass before it is broken.

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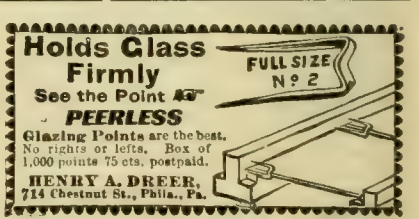


SIEBERT'S ZINC GLAZING POINTS

Never Rust Last forever.

Are positively the best. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes 5/8 and 7/8, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

Albany, N. Y.

A reckoning of the accounts of Easter sales for the season of 1909 shows that among the local trade the aggregate is better than that of 1908. In amount the percentage varies with the different dealers, but it may be conservatively stated to be about 20 per cent. The rate varies from 10 to 25 per cent in one or more cases. In the matter of prices the trade reports that the scale was the same as that of last year. Exceptions are so few as not to be worth mentioning. The supply of everything was fully equal to the demand. One or two dealers report that they could have sold more orchids had they exercised the forethought to have them on hand, but orchids are not an important item in the total aggregate at Easter. No complaint has been mentioned in respect to the supply of cut flowers; any dealer could have obtained all he needed from his grower with whom he had placed his orders consistently for the year. The public expressed its preference in the largest measure for azaleas among flowering plants. Lilies came about second, hydrangeas third and bulbous stock at about the close of the list. In cut flowers violets were far in the lead. The number sold in this city was very large. Dealers consulted reported sales of 60,000, 49,500 and 38,500 respectively during the three last days of the week preceding Easter Sunday. The supply was fully equal to the demand and the quality excellent. Next to violets there was a strong demand for roses, Killarney being a popular favorite. Next in order came sweet peas and orchids. Bulbous flowers and spireas were at about the foot of the list. Christmas is gradually supplanting Easter in this section as the time for the sale of the largest number of flowers. It would be difficult for an ordinary observer to note this trend of public taste because the demand for plants and flowers was so great that beginning on Thursday morning the retailers and their clerks had practically no time to sleep until far into Sunday afternoon, when the last plant or bunch of violets was delivered to an impatient customer by a drowsy messenger who felt great relief that Easter, 1909, was no more.

R. D.

THE STANDARD

VENTILATING MACHINERY

The original machine with self-oiling cups. The most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter

Over six miles in use and highly recommended by all. The only **Drip Proof** gutter on the market.

The Standard Return Steam Trap

It has no equals for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, Ohio.

PECKY CYPRESS

Any Size or Length.

It is the Ideal Lumber for Greenhouse Benches.

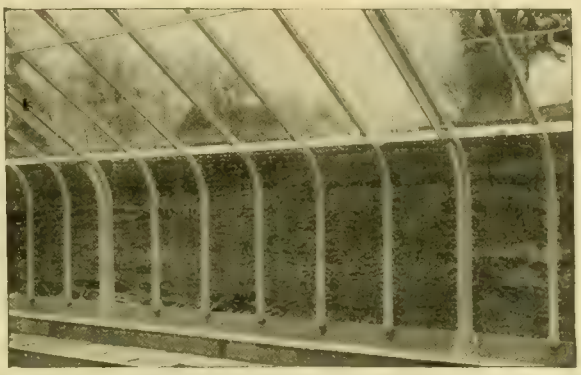
LASTS FOREVER.

THE FOLEY MFG. CO.

26th and Western Ave., CHICAGO.

The New Curved Eave House

You Can't Beat It for Beauty of Design in Its Every Detail.



What Lighter Could You Want Than This? Just Note What a Fine Piece of Workmanship It Is at Every Point.

Any Way You Look at It, You Can't Help Being Impressed with Its Attractiveness and Practicability.

You will like our way of doing it. We retain all the strong structural features of our Flat Rafter house, without columns for supporting the roof, and simply change the detail at the eaves. In doing this, however, we have in no way weakened the house at that point, but have increased its lightness, and a good many say it is a more attractive looking house.

There is one thing certain, we have a Curved Eave House that is not so high priced as to make you unhappy.

We have a special way of constructing the eave which we want to tell you about. We will explain it fully in replying to your letter.

Hitchings & Company

1170 Broadway New York

LUMBER for Greenhouse Benches Ship Lap, Drop Siding, Sheeting, Flooring, White Cedar Posts, Etc.

We are in special position to furnish **"PECKY" CYPRESS;** everything in **PINE** and **HEMLOCK BUILDING LUMBER.** Write for prices.

ADAM SCHILLO LUMBER CO., Cor. Weed and Hawthorn Sts. CHICAGO. Tel. Lincoln 410 and 411.

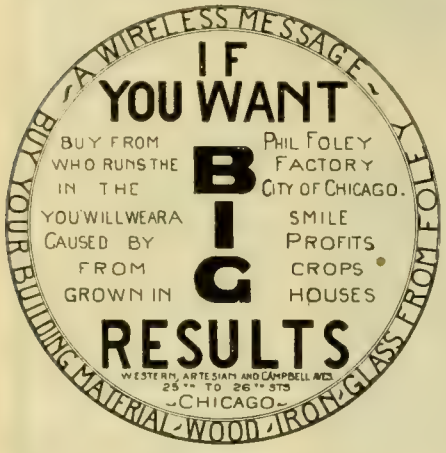
Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT

76-78 Wabash Ave., CHICAGO



Omaha, Neb.

Business for the last four weeks was good and Easter week was the best we ever had. The retailers made magnificent window displays. The lilies were good this year, especially those from Bermuda bulbs; most lilies sold for 25 cents per bloom. One department store advertised lilies for 15 cents per bloom, and good lilies at that, but it did not hurt, as all sold. Azaleas, bougainvilleas, lilacs, stocks, cinerarias and primulas sold readily at good prices. Bulbous stock was plentiful and some thought there was too much, but by noon on Sunday very little surplus could be seen of anything. Roses and carnations were of good quality but not over plentiful and therefore commanded a good price, especially American Beauty. Violets were scarce and poor, still they sold for $2 per 100. Sweet peas were plentiful and brought $1.50 to $2 per 100. More cut lilies were sold this year than any previous year. Out-of-town orders were very heavy and some had to be turned down. The weather man was not extra good; we had raw, windy weather, which made it very hard for delivery. This has been the coolest spring we ever had and helped to keep the stock in good condition.

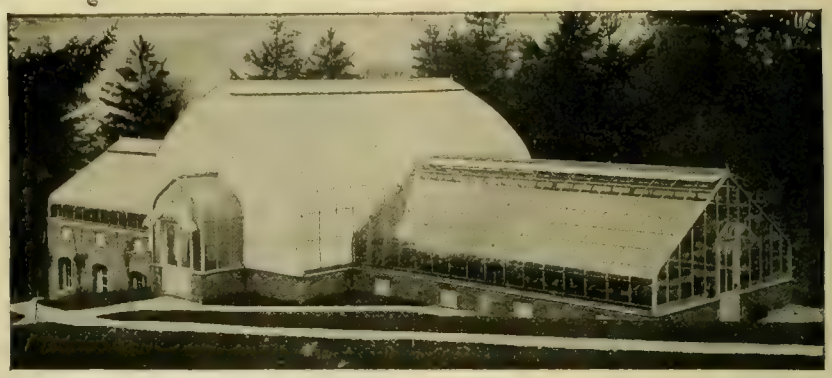
NOTES.

Hess & Swoboda are about to erect three greenhouses 25x200 feet each, using Garland gutters, iron posts and all the latest improvements, such as dirt conveyor. Their heating capacity will be increased by a 125 h. p. boiler, which will give them 500 h. p. in all.

Paul B. Floth is getting better and will be able to be about soon.

GRIPPE.

PUEBLO, COLO.—G. Fleischer says his business at the recent Easter was about the same as a year ago. All plants except lilies were plentiful and there were more cut flowers than were needed. Boxes of cut flowers for Easter presents and Easter baskets were in smaller demand than usual and church decorations were very limited.



THEY HAVE WIDE GLASS

and wide glass means more light—and more light means better plants, better blooms. The catalog tells why they are the lightest, simplest, strongest, most durable, most attractive and productive houses built, and cost less to maintain.

The ideal construction for private estates, parks, public institutions and florists' showrooms.

Send for Catalog.

U-BAR GREENHOUSES

PIERSON U-BAR CO.

DESIGNERS AND BUILDERS

1 MADISON AVE., NEW YORK

A 256-Page Book Free

Every greenhouse owner will want one of these books. It contains over 2,500 valuable hints and pointers for the grower and 700 remedies for diseases and insects. It gives you formulas for standard remedies, and is **worth $5.00** to anyone who is in the trade.

WRITE FOR THIS BOOK

If you have no printed letter head, send us 25c to pay the cost of printing and the postage, and the book will be sent you promptly. You will never regret buying one of these books, and if you have a printed card, envelope, letter head or stationery of any kind, you will get the book, postage prepaid, free of cost.

JOHN C. MONINGER CO.

CHICAGO

113 E. Blackhawk Street.

MT. STERLING, KY.—Graser & Humphreys had a very profitable Easter business with substantial increase of sales over last season.

VICTORIA, B. C.—The Fairview Esquimalt Greenhouses, Ltd., F. Francis, manager, 1120 Government street, will build two houses 205 feet long by 136 feet wide of glass, purchased in England, which is 24 inches square and 1⅛ inches thick.

FREDERICTON, N. B.—John Bebbington & Son enjoyed a larger Easter trade than ever before, considerable funeral work coming along at the same time. Plants and cut flowers were equal to the demand, azaleas not selling quite as well as usual. The new yellow hyacinths were very popular, also good tulips in pots and pans. Violets, roses, carnations and lily of the valley were mostly demanded in cut flowers.

WREATH OF SWEET PEAS AND CATTLEYAS.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, MAY 1, 1909.** **No. 1091**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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AMERICAN FLORIST COMPANY,

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OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the everyday florist is called upon to perform,

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue as otherwise they may miss some of this high grade work.

Lawn Vases and Window Boxes.

An Interesting and Remunerative Branch of the Trade to be Prepared for Now.

Various Styles of Window Boxes.

It matters little whether the retailer has boxes to fill with the choicest of foliage plants or with only a few geraniums, marguerites and cheap vines, the work always pays well and almost universally gives satisfaction to customers. It is a most interesting branch of the business and one that retailers should lay themselves out to secure. In the fashionable districts of New York, Boston and other eastern cities, also in the rising cities of the west, very large sums are spent annually by persons of means and refinement who like to see their windows bright and home-like, and nothing predisposes anyone more in favor of a neighborhood than good, well-kept window boxes. This being so, retail florists and growers should get after this business by showing a well-filled window box or two in the store, and even by a system of canvassing, either personally or by circular, those people in neighborhoods where such canvassing is likely to be successful.

The illustrations in this issue show a number of windows treated in various styles, some, of course, too elaborate for retailers in middle-class localities; others that may be arranged at a price to suit almost every purse. The palms, pandanus, Ficus pandurata, choice dracænas and kindred plants, for instance, used in the window boxes shown in one of the New York pictures undoubtedly make a splendid show. They are perfect for a fine display in the houses of the richer patrons of the florist, while they may be frequently changed and a continuous show kept up. But they mean a lot of money to keep going, consequently are out of the reach of persons of moderate means. These usually need something attractive that will keep on flowering all through the season with the one filling and due attention to the needs of the plants. A very simple and yet effective box for such cases may be planted to green or variegated vincas, S. A. Nutt geraniums and white marguerites. This will be pretty when planted, and all three varieties will go on and improve in appearance all the summer if well looked after by watering and feeding, as these are necessary. The pretty pink Geranium Jean Viaud, with vines of Thunbergia alata, is another pretty combination for a cheap small box, and a few dwarf blue lobelias may be added with advantage. There are many other ways of planting and room for much ingenuity on the part of the planter even though he be cut down in price for the work to a rather low level.

The Boxes and Soil.

The shape of the boxes and their size is a matter of small importance. They have, of course, to be fitted to the windows and, in some instances, as shown in one of the illustrations, may have to be kept low in order that the view is not blocked or window signs hidden. This, however, is a matter for consideration under individual circumstances and it is only necessary here to say that no matter in what way they are fixed they must be made so secure that they will not be displaced by wind. As a rule they should not be less than nine inches deep, this allowing for good drainage and an inch between the surface of the soil and the rim of the box. About the shape or the class of wood used we need not trouble much, as we hope to soon hide all this with a profusion of vines. Of course, a good lasting wood such as cypress or oak is preferable to common deal in that the boxes will not have to be so frequently renewed, and such boxes are cheaper in the end than the lower-priced article. Green paint seems to be as far as some people's ideas go in regard to color. We much prefer to see window boxes the color of the house or other building, and would always match this as nearly as possible, whether it was brick, stone, painted wood or concrete. Vines, like vincas, Senecio scandens, ampelopsis or cobea, look better over these dull colors than over green of various shades, for a bright green detracts from and a dull green does not add to their attractiveness.

Owing to their restricted size more care should be given to the soil in window boxes in which plants are expected

to do well. It is not enough to go out on a vacant lot and scrape up the soil needed to fill them, as is sometimes done. The plants may at first appear to be doing well; they may look green and flourishing and flower all right at first. But there is no body to it. Soon all the nature is washed out and no amount of after-feeding can take the place of a good soil. The roots have run through it rapidly, using up what little nutriment was there, and only the shell remains. Good, sound loam must be the basis of the compost, loam from rotted sod preferably. To this should be added at least one-fourth of old, well-dried cow manure and leaf mould in about equal parts, and if the soil from which the sod was cut is of a nature that runs closely together, a further addition of sharp sand or road grit should be made. This forms a mixture in which the roots of the plants will run comparatively slowly, but they will ramify freely, and when the whole bulk of soil is filled there will be a good ball of fine, hungry feeders that will take up moisture and food in solution to keep the plants in good shape all the season. The growth, too, in such a soil will be firm and of such a nature that any slight checks caused by cold, droughty winds or variations of temperature will not be felt.

Veranda Boxes in New York.

The illustrations show an elaborate arrangement of veranda boxes at the Plaza hotel, New York. These boxes are of an average length of 10 feet and are of terra-cotta, the monogram of the hotel being worked into the designs. In the plant work palms, ferns, Ficus pandurata, dracæna and other foliage plants were used. These were arranged under the supervision of Chas. Thorley, who has a store in the hotel.

Lawn Vases, Porch and Window Boxes.

A paper read by G. A. Heyne of Dubuque, Ia., before the annual meeting of the Society of Iowa Florists.

There are conditions in city gardens, or yards, that require the flower lover to devise means of protection to his flower pets; again there are positions that make it necessary to have his plants up off the surface of the ground, so as to be able to see and enjoy them, or prevent damage to them; also there may not be room to plant on the ground, so flowers can only be had in some receptacle. The multitude of these conditions have brought into use lawn vases, rustic boxes and stands, and porch and window boxes. To have these at their best, the construction of the vase or box, the mixture and condition of the soil, and plants must all be right, well chosen and planted; then proper care should be given them.

The boxes should be seven to nine inches wide, and about the same depth, inside measurement; made of wood or metal. Cypress is the best wood and galvanized iron the best metal. The drainage consists of ¾-inch holes every 12 inches in the bottom of the box. The boxes should be one inch shorter than the width of the window, to allow for air space on each end; for long porches, or windows of unusual width, it is better to make the boxes in two or more sections. Porch boxes should be two or three inches wider than window boxes on account of their drying out faster in the more open position in which they are usually placed. Before painting, the boxes should be charred inside; this consists of washing with kerosene on the inside, both bottom and sides; then lighted and left to burn until a thin charred coat is produced, after which it is turned over and smothered. This operation will add many years to the life of the box.

Before filling, the boxes should be fitted and proper fastenings provided. The proper color of paint is hard to give unless all the surrounding conditions are known; it is safe to use a deep green color, if plenty of vines are used in

VERANDA BOXES AT THE PLAZA HOTEL, NEW YORK.
Terra Cotta Box Filled With Ivy, Foliage Plants and Palms.

VERANDA BOXES AT THE PLAZA HOTEL, NEW YORK.
Kentias, Phœnix, Ficus Pandurata and Ivy in Terra Cotta Box.

planting. As stated before, good soil must be used; this can be made up as follows: Pasture sod chopped up, two bushels; rotted manure, one bushel; sandy garden soil, one bushel; bone meal, two quarts—these must be well mixed and made up in the fall for next season's use, if possible. The bottom of the box should receive the drainage material, consisting of broken pot-sherds; over this place a thin layer of moss or excelsior to prevent the soil washing out. The coarsest part of the soil is now put in, following with finer soil, until the box is two-thirds full; this will allow of deep planting.

Start with the vines along the front and place these, along with the roots, firmly packed in soil, as the continued movement by the wind is likely to loosen them, resulting in weak growths. In very exposed places it is well to have the boxes deeper to allow for this deep planting, also to give more protection to the roots. Next to the vines place the fillers, such as the Boston fern, or Asparagus Sprengeri; in the back, place the flowering plants. Geraniums are the most desirable for sunny positions; these should be of sturdy young growth and one variety should be used only, as a mixture of colors, unless well chosen, will only give a patchy effect. The dark red geranium is a favorite; scarlet looks well in certain places, while the light shades of pink are to be carefully tried, to avoid disappointment, especially on very dusty streets; for such positions use smooth-leaved plants as much as possible to prevent the dust sticking to leaves and if the boxes are so situated as not to be washed by rains, sprinkle them occasionally to keep them free from dust.

There are other plants that can be used if carefully matched as to color of leaves or flowers, such as achyranthes, coleus, alyssum, ageratum, petunias and cannas, the last of the dwarf sorts, as Express, Chabonne or Austria; also dracaena and Yucca aloifolia. Phormium tenax and the variegated form make excellent center plants for large rustic stands and vases. Agaves and aloes are suitable for very exposed places. In selecting lawn vases choose them of good size, say eight to 12 inches deep and not less than 16 inches in diameter. Rustic stands or boxes of wood should be charred, same as the window boxes, and should have a minimum depth of eight inches for plants to do well; also drainage must be provided as recommended for window boxes. Special care must be used in draining iron vases as some patterns are poorly equipped for drainage.

When the vases are small it is necessary to make the soil somewhat richer in composition if heavy vine growth is desired. Be careful to have the soil fully one inch below the top of vase or box. The last filling around plants should be of finer soil and must be well firmed—do not expect good results in loosely planted vases or boxes. If possible have them in some sheltered place where they can remain several days and where they will be protected from heavy rains, for until the roots have started well into the new soil, they must be sparingly watered and yet should never be allowed to dry hard. After a week or 10 days the plants will stand more watering, and after three weeks or a month the soil can be soaked daily in dry weather, if in a sunny position. From this time on fertilizer can be used; at first weak solutions of manure water or a light dusting of the dry material. Watering must be looked after at regular intervals and good results cannot be had with indifferent care. Also the old flowers and the dry leaves must be regularly removed and the vases must stand firm and level.

Regarding the different vines: the vincas, both the white edged and light green-leaved sorts, are the most useful and best growers. The variegated honeysuckle and Senecio scandens are other

vines for yellow and green effects of rapid growth and readily propagated. These vines will grow from four to eight feet long in a box eight inches deep. Where some climbing vines are desirable the cobæas, both the white and purple, will fill the bill; these can be trained up porch columns and windows. Madeira vines, planted in the back of boxes, can be trained to form a nice screen.

A Successful Lawn Vase.

SEE ILLUSTRATION PAGE 691.

The conventional urn or lawn vase is rarely a success. What ought to be an attractive feature is often a defect upon well-kept grounds. The reasons for this are four-fold: Plants in a metallic receptacle are apt to suffer from overheating of the roots and improper drainage. The former difficulty might be avoided by selecting a shady location and plants which thrive best therein.

Overcrowding is another cause of failure, and a fourth mistake is in the selection of inharmonious colors. Granted that tastes differ there can be no excuse for filling an urn with salmon or rose pink geraniums and flaming nasturtiums. Another instance of harmony not understood was a combination of crimson petunias and scarlet geraniums. Equally hideous color schemes constantly greet the critical eye.

Rustic work is rarely out of place—not the fussy shallow baskets peeled and varnished, which savor of the grotesque—but something simple and serviceable, like the structure which holds the magnificent growth shown in the illustration. A forked branch of a tree is the more artistic standard, but in the present instance it was convenient to utilize the stub of a maple tree. This supports a section of a lard barrel. Such barrels can be bought of any grocer for 75 cents. They are heavily stayed with bark-covered hoops. With the head replaced and the barrel sawed a couple of inches above the hoops we have two fine tubs. Holes bored in the bottom, near the edge, insure good drainage.

The entire structure is covered with Ampelopsis quinquefolia growing around the base of the stump, which is trained and pruned to its present outline, and allowed to re-drape itself with its own rich foliage. An inch or two of refuse from coal siftings in the bottom prevents the earth from clogging the vents for superfluous water. Given a rich soil and plenty of water with careful selection and arrangement of plants nature does the rest.

A dark-leaved canna stretches itself in the air, flanked on either side by a free-blooming, dwarf, yellow variety. A fine caladium solemnly waves its massive leaves between delicate pompon dahlias, which are highly effective among the red canna leaves. A footnote of yellow and red coleus completes a luxuriant picture.

W.

MARGUERITES AND GERANIUMS IN WINDOW BOXES.

THE RETAIL TRADE

BALTIMORE, MD.—John Cook reports a 20 per cent increase in his sales around Easter over those of a year ago, at about the same prices and with a good supply of all classes of stock. Hydrangeas, rambler roses and azaleas were most in demand in plants. American Beauty roses were not in so great demand as cut flowers as were lilies and other bulb stock, tea roses, orchids and gardenias.

AND now it is shoes—wire shoes trimmed with ivy leaves or leucothoe and containing vases filled with flowers—that are the thing for table decoration. Silk is sometimes used as a covering with a bow of tulle at the toe. The tallest flowers are used at the heel.

AT an eastern funeral a design representing a theater ticket with the words on the one side: "Right A1, At Rest, April 13"; on the other: "Heaven, Admit One," was used. While the florist has not always the say in this matter, this kind of lettering seems hardly in good taste and should not be encouraged.

Spray of Cycas Leaves.

SEE SUPPLEMENT WITH THIS ISSUE.

Although much used other ways cycas leaves are especially appropriate in the bolder, more effective funeral designs and in memorial wreaths for cemetery and other uses. Their bold, striking appearance is not their only good point; they last longer than almost any other description of decorative material and this is another argument in favor of their use in cemetery sprays. A spray of these leaves will last for weeks on a grave or monument while a wreath of flowers, no matter how costly or of what varieties, looks draggled and untidy in a few days. The cost of cycas leaves of good quality in sufficient numbers to make really bold and effective designs prohibits their use unless a good price can be obtained for the work but the satisfaction they always give to customers leads to repeat orders when once they have been tried. A well known retailer in Chicago always makes a trio of these splendid sprays for a customer just before Easter and Christmas every year, simply because they last so well and are attractive to the last.

Anywhere from $10 to $20 may easily be obtained for good sprays of cycas leaves, tied with purple ribbon or decorated with violets, lilies or other funeral flowers. Besides plain sprays, simply tied with bows of purple ribbon, many fine effects may be worked out with these leaves. A wreath of violets and

WINDOW BOXES KEPT LOW TO AVOID SIGNS IN WINDOW.

VINCAS AND GERANIUMS IN WINDOW BOXES AT PHILADELPHIA.

cycas leaves with a simple white tie is effective in small sizes but they are more suitable for the richer bolder effects. A wreath made recently for the funeral of a well known business man may well come into the latter category. A heavy loose wreath about five feet across had a rising bank of violets on the top, large enough to give a good effect. Interspersed with the violets, and softening their somewhat hard line, were graceful little plants of Cocos Weddelliana, the weeds surmounted with a high bow of rich purple ribbon. This was, without doubt, one of the finest funeral wreaths we have ever seen, not the least of its merits being its richness combined with a rare simplicity. Again, splendid results are often obtained by the use of cycas and croton leaves in combination and there are numberless ways in which they may be effectively combined with other foliage and flowers. Dealers in these leaves say their sale has fallen off considerably of late but it would be a misfortune to lose them from the list of florists' requisites.

SPOKANE WASH.—Hoyt Bros. Co. reports a 25 per cent increase in its recent Easter sales over those of last year, with prices the same and plenty of stock. Lilies in pots sold well, but azaleas not so well. Everything in cut flowers cleaned up. This firm's novelty baskets, of its own make, proved popular.

BURLINGTON, IA.—A local paper, dated April 13, has the following: "Jos. Bock, the Sunnyside florist, celebrated his sixty-third anniversary Saturday. He has been laboring with nature's beauties so long that nature has dealt kindly with him, for he doesn't look a day older than 50. His many friends extended congratulations."

THE CARNATION.

Indoor Summer Culture.

The young stock intended for growing indoors all summer should now receive attention to repotting or planting out. We prefer planting out on a bench to carrying them in pots. Now that the Easter season is over a bench or two can be dispensed with in the carnation houses, selecting those that are so situated to allow of thorough airing, with plenty of light and not too far away from the glass. Clean out the old soil and do any repairs necessary, then give the inside of the benches a thorough cleansing with lime wash the same as followed when planting permanently. Then follow this up by spreading a thin layer of well rotted cow manure over the bottom of the benches, enough only to cover over the cracks or about one inch thick, then on this put about three inches of very fine virgin soil which should be of a light texture but not sandy; no firming down is necessary. The young plants should then be planted about three inches apart each way planting firmly enough to hold the soil around the balls but allowing no pounding. After they are planted give a good watering in and after this the results from this method of culture will depend greatly upon the care that is bestowed upon them during the next two months.

One of the principal points to bear in mind and follow up closely is that of keeping the plants pinched back. They will grow very rapidly after the roots have well taken hold of the soil and will need going over every week to keep the shoots properly topped back. Do not water too freely; all that the plants require is enough to insure a healthy growth an over abundance causing a soft growth subject to disease of every description. A low temperature, the same as is carried for the other young stock, with plenty of fresh air, should also be the order. Young stock treated this way will make very fine plants for planting into their permanent quarters by June 15 and arrangements should be ready at that time for caring for them. If this cannot be done it is better to stick to field culture and not attempt growing them indoors all summer. The young stock for planting in the field should be given every care. When topping is necessary, keep it followed up closely, also maintain a cool fresh temperature and pay particular attention to the wants of the plants as regards watering and keep them clean of insects by frequent fumigation.

C. W. JOHNSON.

Carnation Soil.

ED. AMERICAN FLORIST:—

Is it advisable to leave the soil in the carnation benches for two seasons, or is this a poor method to follow? Fresh soil was placed in the benches last August, and in June, if the soil is thoroughly dried, the top layer removed and some bone meal or manure mixed with the remaining soil, could first class blooms be grown?

E. W.

Although fresh soil annually is usually recommended many growers produce first class cut flowers by the method "E. W." names. It all depends upon sufficient plant food being returned to the soil and its being kept in proper mechanical condition.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Water Lilies.

The demand for these as cut flowers is rapidly increasing and nothing has such a charming, cool appearance in hot summer weather as an arrangement of running water in the retail store with some of the flowers tastefully arranged. There is money in their culture if the extension of the business of those who have started in it may be taken as indicative of this, while there is no great skill called for, more depending upon proper care and carrying out the details at the proper time. Where there is no natural water a series of sunken tubs or concrete ponds are made and used successfully. The hardier kinds of nymphæa may be planted now, while the more tender varieties can be secured and started in the greenhouse to be planted out when the water has sufficiently warmed up outside.

Euphorbia Fulgens.

Small cuttings of new growth, cut with a heel from the old wood, root freely now in fine soil kept always moist over a moderate bottom heat. The bright red sprays of flowers, with the pretty bright green foliage, are excellent in winter for decoration and it will pay to grow a few. Where there are no young plants, place a few old ones in heat and they will soon send out suitable shoots for propagating. The bleeding of the sap can be stopped by dipping the cuttings into dry, fine soil before inserting in the cutting bench. This euphorbia likes a fairly warm, moist house and plenty of sunlight while growing, and will thrive well trained up under the glass in houses devoted to plant growing. Considerable care in watering in the earlier stages is necessary.

Stephanotis Floribunda.

The flowers of this fine old plant, that years ago was such a favorite, are occasionally seen and wherever they are offered they are always eagerly bought by discriminating purchasers. The flowers are not long enough in the stems to meet the needs of present day decorators in most classes of work, but they are elegant for sprays and for any class of made-up work. They would make a fine succession to bouvardias and, if the plants are correctly treated, they produce an immense quantity of flowers, a spray to every joint of the young growth. But in many cases the stephanotis has been treated as a stove plant only, to be grown in a very hot house when it really needs a very moderate temperature. For years we grew this stephanotis over the roof of a house devoted to maidenhair ferns for cutting and never had any trouble with it. The roots should be confined to pots or boxes, not planted out to ramble at will. In the latter case more growth than flowers will be produced, but if confined to pots and the soil rammed firmly into them a short jointed hard growth is produced that flowers freely. Where ferns are grown this plant could be trained thinly on the roof and the foliage would prove sufficient shade for the ferns at all times, while producing a crop of flowers for two or three months at least in summer. Frequent spraying with cold, clean water over the foliage helps to keep down mealy bug, its worst insect enemy, and will not injure even open flowers in the least, one very good point about the stephanotis. We are not advising the growth of large quantities of this flower to be placed on an unprepared market, but the retailer with his own glass and the fern grower could certainly use it to advantage.

Shrub Blossoms.

Lilacs, snowballs and other hardy shrubs are being more and more drawn on for cutting purposes and where they are grown especially for the purpose it is easy to get them in a week at least before the outdoor flowers are ready for use by cutting and placing the branches in water in a moderately warm and shaded house. The time to cut them is just as the flower buds are well formed and before they begin to open. The winds at this time of year are very rough on delicate flowers as they open and bruise them badly, but branches cut and placed in water this way are safe from injury. Plants of Hydrangea paniculata that have been forced should be planted out in good soil to make growth for a season or two, when they will be fine either for cutting in the open or for lifting and lightly forcing for cut flowers. The perfect hardiness of this and several other similar hydrangeas is not sufficiently recognized. They stand out in the most exposed positions far north in Canada, yet, unlike many hardy shrubs, will stand forcing equally well. Any retailer who has not grown this fine plant has neglected his opportunities. The weigelas again are useful for cutting, though not so good as the others. They grow best and flower most freely in a light, sandy soil. Branches of forsythia may now be cut from outdoors in many localities, but these may be hastened when necessary in the same way as lilacs. Some of the daphnes are beautiful and very sweetly scented and there are many others.

Some New York Window Boxes.

Swainsonas.

No more time must be lost before planting the swainsonas intended for summer flowering. Although the plants are of a loose, straggling habit and will take up a lot of room if allowed, they are better planted moderately close, as this will cause straighter and better stems. Of course, if planted extra close they would not thrive, but good plants put out at nine inches in the rows and one foot between the rows will about meet the case. Swainsonas grow freely and the soil must be good. Also, when they are well established, the roots must be kept moist. Where there are old plants that have been flowering these can now be cut back fairly hard and will soon start up again to grow and flower. A batch of cuttings should be put in as soon as they are ready and these can be grown on gently in a cool house, frame or plant protector and will make fine stock for winter blooming. At all times a cool, airy and comparatively dry house is best, as the plants are almost hardy and the flowers are of a nature that easily spots and disfigures with abundant moisture. The green fly is about the only insect pest that need be feared and this can usually be got rid of with one or two gentle fumigations with some of the nicotine preparations.

General Hints.

Because a bench is not wanted for another week or two is no reason for leaving it unprepared. If it is a wooden bench and violets have been grown on it, to be followed by chrysanthemums, for instance, get the old soil away and see to whatever repairs are necessary. This will save time when the chrysanthemums are ready for planting and the soil ready for filling. Soil for chrysanthemums, as generally used, is not of the best. Any old thing that happens to be around is pressed into service and the grower decides to use plenty of liquid manure later to make up the deficiency. But when we think of the amount of work the chrysanthemum has to do and the short time it has to be done in, then the need of a good sound compost becomes apparent. It is true the plant is easy to do and puts up with temporary inconveniences in the way of poor soil fairly well, but we all want to get as solid and full flowers as possible and here the advantage of a well prepared soil is evident. Flowers of good depth and texture cannot be grown in poor, trashy soil by the aid of liquid manure, so give the plants the best that can be obtained consistent with a profit on the transaction. The same thing applies to carnations, roses and other crops. Manures, liquid and otherwise, are excellent as aids to culture, but

they can never take the place of good soil. The care of the young rose stock is an important charge and a careful grower should be detailed to the work. Grafted plants will be getting heavy and likely to be knocked out when moving or spraying. See the plants are staked to prevent this. Weeds in the pots are great robbers, needing more to keep them going than the rose plants and attracting insects. Plenty of room is essential to this class of stock now or the foliage will suffer and fall later when planted on the benches. Now that the firing season is nearly over, cut out any badly mildewed shoots in the Bride and Bridesmaid benches and give several sulphur fumigations to get rid of the last traces of the fungus while the heating pipes are still at command. Seedling ten-week stocks are also subject to trouble from mildew now and it pays to give them plenty of room so that light and air reaches every part of each plant. Heat is bad for these at any stage and so is abundant moisture. What they like is a cool, airy and fairly dry house or frame where no frost can reach them and no fire heat without air on. This is in a measure true of all annual seedlings, but is imperative in the case of these stocks.

Chicago Park Notes.

The new fernery annex to the great conservatory in Garfield park is improving rapidly in appearance as the fine specimen ferns get hold and the younger plants and seedlings come into line. The foliage plants in the house devoted to them are also in splendid order. A system of lath shading has been installed which will doubtless serve to prevent a repetition of last year's trouble with regard to overheating and consequent harm to the foliage by sun. Quite a number of flowering orchids are now arranged in this house while the show of Ghent and mollis azaleas, cinererias, bulbous and other choice showy plants in another house is remarkably fine. Anyone interested in New Holland plants, rare conifers, camellias and such things should pay a visit to the temperate house here where choice collections carefully labelled can be seen.

There is still a lot of repair work to do here to the glass roof recently damaged by wind and hail. The glass now is 24x24 inches and there is a talk of reducing the size to 18 inches and stiffening the curved sash bars by cutting them out of the solid instead of bending them. There is quite a difficulty in getting men to work on the large house as they are, apparently, not used to this kind of work. It is fortunate that the weather is getting warmer instead of colder or the consequences of such a large amount of air would probably be serious. The mosquito plant (lopezia) is very attractive here to visitors and such quaint things are especially suitable for public places where citizens come to learn all about them. In the propagating houses there is a splendid lot of stock in all varieties coming on and the orchids are improving rapidly and many of them flowering freely.

Running the water out of the lagoon in Humboldt park, owing to construction work, has given the gardeners a chance to clean out the bed and inspect the boxes in which the lilies are planted. The herbaceous plants around the lagoons and in the rose garden are starting up well and the early bright yellow Narcissus Golden Spur is already making a fine show in various parts of the park. The fall growth on the thousands of Lilium candidum planted has come through the winter quite green and fresh and, unless the troublesome fungus attacks the growth, these will be a magnificent sight this summer. Already in the glades, scillas, chionodoxas and Star of Bethlehem are flowering, the former making a beautiful blue carpet that will be followed a little later by the blue periwinkle. The number of people using this fine open park on bright days is very encouraging to those in charge and shows the appreciation of the citizens. The shrub plantings are looking remarkably well and the varied tints of the young growth is very attractive. In a few years the wisdom of Jens Jensen's mass planting of these shrubs will be apparent and probably the most carping of his critics will have to give him credit for his farsighted policy.

A SUCCESSFUL LAWN VASE.—See Page 688.

The citizens of Austin want a more beautiful school yard as set forth in the following report of the committee on grounds and buildings to the school board: "This committee reports that it is in receipt of a communication from H. W. McFarlane, president of the Austin Public Policy club, stating that at the request of said organization, Jens Jensen, superintendent of the special parks commission, has made a study of the Austin high school grounds and designed a plan for improving and beautifying them in a manner suitable for a high school, that the improvements will cost between $1,200 and $1,500, most of which sum has been practically assured by public

spirited citizens of Austin, and asking authority from the board of education to proceed with the work at the earliest possible date in accordance with plans and specifications submitted to the committee and modifications of said plans as suggested by the principal of the school, the details of which are to be worked out by Mr. Jensen and the architect of the board." With the money forthcoming and with Mr. Jensen back of the project there seems little reason why this needed improvement should not be carried out.

Visitors to Jackson park this spring will note considerable improvements, notably around the yacht harbor and the new life-saving station. The new concrete walk along the harbor will doubtless be a very popular place in summer, for the scene there is always very lively with the constant movement of the yachts and launches. The planting hereabout is beginning to take shape and it is an open and delightful place for pedestrians. The wooded island is a never-failing attraction and the most favored haunt of wild birds, perhaps, for miles around the city. The feathered inhabitants are in bright plumage now, and it is an interesting place for the bird lover. In the rose garden the plants have come through the winter extremely well and pruning and siding up generally is going on. The golf grounds here are very extensive and well kept, and, altogether, the citizen would be hard to please who would not be satisfied with the healthy lake breezes and the other enticements of Jackson park.

The small parks and playgrounds movement will probably be helped by the visit of the house, park and boulevard committee, from which authorization for a $1,000,000 bond issue is sought, on April 20. The party of inspection was evidently in favor of increasing the number of small parks and expressed satisfaction at the progress made. "Keep off the grass" signs were deprecated by Representative Smejkal, who said he liked to see the children rolling on the grass, and all expressed their pleasure at seeing Seward park, where the children have three acres for recreation, a reading room, lunch room and gymnasium. But Park No. 1 at Noble street and Chicago avenue was the surprise. Here Alderman O'Niel says an average of 5,000 persons a day use the swimming pool, 7,800 being the number one hot day last summer. The municipal park, the gift of the Commercial club, the new park being built in the Ghetto district and several others on the south side were visited.

Many residents still regret the passing of the greenhouses at Douglas park and are not mollified even by the fine open space provided here now. There is ample room around here for planting summer bedders and herbaceous stock and John Sells has a fine lot of these in preparation for the work. The lily pond is to be fixed up and boxes provided for planting a quantity of water lilies and other aquatics. The lagoon here is still undisturbed and opinions vary as to the wisdom of filling it in as was at one time proposed.

It is difficult as yet to say how the large trees transplanted to Grant park on the lake front will thrive. Moving trees of this kind is always dangerous and the position is very exposed. Still they look all right so far and we may hope for the best. Roadways are being made and grading going on showing what the park will look like. Meanwhile the row over the site of the Marshall Field museum goes merrily on and nothing is as yet decided on. A central site for such a building as this will be seems highly desirable.

There were great crowds of happy hilarious youngsters in Garfield park April 23 (Arbor day) on the occasion of planting a tree near the Robert Burns monument by the children of some of the west side schools. It was evidently quite an event in their lives and greatly enjoyed by all. These occasions should be more frequent.

FIELD OF CALLAS IN FLOWER AT LILYDALE, SANTA CRUZ, CALIF.

WITH THE GROWERS

Lilydale.

The picture herewith of a field of callas at Lilydale, the bulb farm of Colin H. McIsaac at Santa Cruz, Calif., will doubtless be of interest. C. H. McIsaac is the secretary of the Santa Cruz chamber of commerce, and actively interested in developing and making known the advantages, resources and attractions which Santa Cruz county possesses. The photograph from which the illustration was prepared was taken at Lilydale, February 28, 1908, and it shows more convincingly than words can that there is a section of this country which is as well (if not better) adapted for bulb growing than any of the famous bulb regions of Europe.

The picture was taken, not alone because of its attractiveness, but to show the growth attained by the lilies in nine months, the tiny bulbs having been set out during June and July preceding the taking of the photograph. None of the bulbs planted were more than an inch and a half long and as big around as a lead pencil. Only under conditions essentially perfect for bulb culture could these lilies in nine months have attained the luxuriance and size shown. Some 250,000 bulbs are growing in the field shown in the picture, and as many more in a similar field back of the bungalow.

Santa Cruz county is one of the coast counties of California, some 80 miles south of San Francisco. Ideally environed by mountain, valley and sea, this favored spot rejoices in climatic conditions so equable that, had it nothing more to offer, it would still be richly endowed. But its natural resources and charms are many, and among these adaptability for bulb culture deserves prominent place, its unusually advantageous conditions for such enterprise not being as widely known as they deserve to be. Climate and soil unite here to provide bulbous plants with just the conditions they require, and not a symptom of disease is in evidence to check rapid growth, interfere with perfect bloom, or retard the development of large, perfectly healthy, vital bulbs.

Ordinarily, lilies grow in this section during the so-called winter or rainy months without interruption, many winters passing by without frost enough to perceptibly damage the blooms, while the heaviest frost experienced does not injure them appreciably. Last fall some 10 pounds of calla lily seed was sown at Lilydale, and these seed beds are at this writing crowded with tiny lilies from one-half to two inches high and growing remarkably fast. Approximately there are some 150,000 seedlings in these seed beds, and the bulbs thus produced are particularly fine and vigorous.

J. D. Thompson Carnation Co., Joliet, Ill.

Manager Chas. M. Fish reports business this season considerably ahead of that of last season, and appearances in both the cut flower shipping room and the propagating house just before Easter certainly seemed to indicate that there was "something doing" here. But in spite of the rush to get off the Easter orders, Foreman P. W. Peterson took occasion to pilot us through the houses, pointing with justifiable pride to some of the accomplishments of the place.

Among the carnations Beacon seems to be a prime favorite. There are now 8,000 plants here, and there will be half as many more next season. Mr. Peterson claims it is as good a producer as he has, having estimated it would average fully five more blooms to the plant than Enchantress. Practically a continuous bloomer, it certainly has proved a money-maker here. White Enchantress also shows up as a splendid producer and a good money-maker.

The propagating house is a wide, airy house, 30x50 feet. Four times this season it has been filled, 140,000 cuttings being put in the sand each time. The cuttings are planted unusually thick, 110 being the number planted in each row across the 5-foot benches. The rows also are very close, and Mr. Peterson says that it is his experience that as many cuttings root successfully this way as if they had more room. He lays considerable emphasis on the fact that the cuttings are kept in water for 12 hours before placing in the sand. It was an unusual instance, but in the case of one batch of 7,000 Winsor cuttings, only one cutting failed to take root. The varieties that will be grown here next season are as follows:

Beacon	12,000
White Perfection	5,000
White Enchantress	15,000
Enchantress	12,000
Rose Pink Enchantress	12,000

For the first time this firm will offer chrysanthemum cuttings for sale, one corner of the propagating house now showing a very thrifty lot of young plants. They include, in white, October Frost, Kalb, Virginia Poehlmann, Clementine Touset, Alice Byron, Wanamaker, Timothy Eaton, Chadwick and Jeanne Nonin; in yellow, Golden Glow, Monrovia, October Sunshine, Bonnaffon, Yellow Eaton, Golden Chadwick and Robt. Halliday, and in pink, Maj. Balfour and Dr. Enguehard.

Chicago Carnation Co., Joliet, Ill.

The Easter season was a busy one with the Chicago Carnation Co., and while there was an excellent crop on at the time of our visit, everything was cut closely in order to supply the big shipping demand, and the hurry of the place was concentrated in the packing and shipping room.

But to the visitor the chief interest lay not in this necessary commercial aspect, alike the country over in such establishments, but in the propagating house. Here is where personality counts, and Manager A. T. Pyfer was in his happiest mood pointing out the various carnations he has in the sand both for his own use and for supplying the customers.

All told this season there have been some 800,000 cuttings put in the sand, about 200,000 being intended for the firm's own use. This propagating house is 30x150 feet and is filled about four times in the course of the season, the last batch being now in. Of the 250,000 cuttings now in the sand 100,000 are White Enchantress and 50,000 are White Perfection. Beacon, Andrew Carnegie, Victory, Aristocrat, Enchantress, Rose Pink Enchantress, Winsor, Daybreak Lawson, White Lawson, Splendor, Lawson Enchantress and Lady Bountiful are the other varieties propagated. A noticeable absentee is Lawson, this variety not having been grown here for the past three years. Interesting for the possibilities of the future they may now contain are the cuttings from some 200 of last year's seedlings, "as good," says Mr. Pyfer, "or better from present indications than the standard sorts." There are 500 such cuttings already potted up and another 500 ready for potting.

Among the carnations to be disseminated next season are three very meritorious varieties. One is the salmon pink Mary Tolman, originated by A. E. Hunt, of Evanston, Ill. It has better color than Enchantress, produces large blooms, is very free and the cuttings planted here have proved exceptionally easy rooters, and very few in the entire lot failed to root. Sangamo, originated by A. C. Brown, of Springfield, Ill., is another sort of unusual promise. It is a brilliant pink and both Mr. Pyfer and his foreman, Peter Olsem, declare it will quickly take the place of Winsor. Conquest which was originally a seedling in this same place, is the third sort that will be sent out next season. It has the Lawson habit, with very long, heavy stems. In color it is a light pink overlaid with deep rose pink. Other new sorts that will be grown here, but already being disseminated by the originators, are O. P. Bassett, sent out by Bassett & Washburn, of Chicago, May Day, originated by E. T. Graves of Richmond, Ind., Pink Delight, by F. Dorner & Sons Co., of La Fayette, Ind., Alvina, sent out by Henry Eichholz, Waynesboro, Pa., Mrs. Chas. Knopf, sent out by the Chas. Knopf Floral Co., of Richmond, Ind., and Gov. Deneen, by A. C. Brown, Springfield, Ill.

Out in the range a good crop is on but the writer having timed his visit in the midst of the Easter rush found the open blooms well cut off, otherwise a view of some of the houses would have shown a magnificent display, especially in the White Enchantress, a variety Mr. Pyfer finds it hard to praise sufficiently. He says that plants now two years old have produced fully 20 blooms to the plant from August 1 when cutting began to January 1. Since that latter day there has been a fair crop and thousands of cuttings have been taken. Mr. Pyfer goes so far as to say that there is no need for any other white while we have White Enchantress and White Perfection. Winsor has proved a fine variety and well liked by customers. Since the first of the year good, long stems have been the rule. Next season Sangamo will be in the field for honors in the same class, and Mr. Pyfer expresses the opinion that Sangamo will come out ahead.

A remarkably fine, thrifty lot of plants are the Andrew Carnegie; they are very heavy producers. Aristocrat in the same house are also fine plants throwing blooms on long, strong stems. Conquest is a fine flower. Its color, light pink overlaid with dark rose pink, Mr. Pyfer thinks can be brought into favor even among those who have hitherto been prejudiced against the so-called splotched varieties. Its two shades are in beautiful harmony, and its size, form, calyx and stem are all in its favor. Fine luck has been had here with Beacon. Some have found it difficult to propagate, but here no fault can be found with it.

Joseph Heacock Co., Wyncote, Pa.

Each visit to the noted range of the Joseph Heacock Co., Wyncote, Pa., discloses something new and original. Although the new carnation, Dorothy Gordon, has at various times been mentioned in the trade press, it has never yet received full justice. On a recent visit, we were greatly impressed with the profusion of bloom in one house, devoted entirely to its culture. Dorothy Gordon comes from Lawson and Enchantress. It is a remarkably prolific bloomer, with a long and strong stem, being absolutely free from all diseases. The color is so near that of Rose Pink Enchantress, that experts have been deceived, but while there has been much dissatisfaction with Rose Pink Enchantress on account of its variations, Dorothy Gordon has always shown a solidity and stability in color that is unsurpassed.

Joseph Heacock, says of this carnation: "With Dorothy Gordon, we have cut 30 per cent more blooms and our cash receipts have been 50 per cent higher than with Enchantress." Such a statement from a man of undoubted integrity, is worthy of attention. This

WINDOW BOXES ONLY FOUR FEET ABOVE THE SIDEWALK.

carnation, in all the phases of its development, from the present-day viewpoint, seems almost perfect. We predict for it an immediate leap into popularity, as soon as its merits become generally known and recognized. Dissemination of this fine production will begin in December of this year. Over 20,000 plants have already been ordered and this is merely the beginning. The plants will be sold at the popular price of $75 per 1000 and Mr. Heacock says that he has made ample preparations to supply the trade with strictly first class stock.

Though orchids have for some time been grown at this range, it is but recently that their culture has been attempted on a large scale. Within a very recent date, 125 cases of cattleyas were purchased of Carillo & Baldwin, the well known collectors of Secaucus, N. J., and this stock is being rapidly potted and put in condition for flowering. Many fine blooms of C. Mossiæ are now being sent to market. In the past, this range has been most noted for its palms. Asked as to the number under cultivation, Mr. Heacock said: "Well, I guess there are 100,000 more or less."

Very many of these palms are in tubs ranging through 7, 9 and 12-inch sizes. "I believe," said Mr. Heacock, "that a palm does better in a tub than in a pot. Then, you know, that often the boys handling palms will grab one in a hurry and if it is in a pot, the pot will fall off and break, then, of course, a new pot must be secured and it must be repotted, causing much inconvenience." The cedar tubs used at this range, are made to order by the Richmond Cedar Works of Richmond, Va. Aside from Dorothy Gordon, a good variety of other carnations, including Enchantress, are grown at this range. Killarney rose is largely grown and large numbers of fine blooms are daily shipped to the wholesale markets. Richmond is also grown in quantity sufficient to supply the demand. Though growing a few plants of Mrs. Jardine, Mr. Heacock does not consider it sufficiently popular to give it much more than a trial space.

One house of Dorothy Gordon will be planted very soon and it is aimed to have good blooms for the fall exhibitions. At the Washington exhibition this carnation scored 86 points and 90 points when later exhibited before the New York Florists' Club. A new house 25x225 feet has just been erected at this range.

The Way the Wind Blows.

Mark Twain says the wind blows from the north, or the south, or the east, or the west, or some point approximating in those general directions.

I see by reports that Wm. H. Elliott read a paper on roses before the New York Florists' Club. There is no question but that gentleman can write and speak very entertainingly. It was also a pleasure to see that O'Mara, Pierson, Weathered and some of the princes of finance and otherwise, aired their views, in the debate which followed. In the latter Mr. Elliott is quoted as saying, "You heat the space where the plants are, and use the colder air as a blanket to protect those plants." That passage comes as near nature faking as it is possible to be, but then he is not quoted as saying he did it. It is you, and who the you is, we are not told; that is one of the richest phrases I have yet met, and Mr. Pierson didn't like his reasoning on that point. Who can blame him for not doing so? Probably some day Mr. Elliott will tell us what it means and how he arrives at the results. As a grower and a heating expert we take our hats off to him, but the best of us sometimes get badly mixed.

In the excitement Mr. Pierson said that the florist business is becoming a manufacturing proposition. Who ever heard of a carnation, rose, violet or any natural flower being manufactured? When we use that word we had better slow up, put the brakes down hard, and ask ourselves where we are at. We aid or assist nature by artificial means to produce flowers but we can't manufacture them any more than we can cows or horses. I hate to talk about the old days, but it makes me tired to hear these youngsters speak of iron houses and wide houses as being a modern product. When I stroke my patriarchal whiskers it brings back memories. Many of your readers will remember when E. M. Wood of Natick had a store on Fourteenth street, New York, and kept a salesman in Philadelphia; that was a good many years ago. He was building iron houses, wide houses and high houses, iron and cement in their construction, for roses. Some time ago when I visited the place and was shown round by Alex. Montgomery, I was pleased to see the houses were in as good repair as when built. Mr. Wood I believe was the pioneer of American rose growing and also the pioneer of greenhouse construction, he was building houses 30 feet in width, of the above description when the other fellow was building wooden houses 10 feet wide. I must say that Mr. Wood was years ahead of his time and the men of today are copying those ideas he left them.

RAFFIA STRINGS.

LEGAL NOTES.

Damages for Malicious Prosecution.

A QUESTION OF PLANT "STORAGE."

C. H. Hune was given a verdict for $1,000 damages against Pinckney Latham, Jr., by a jury of the circuit court April 15. The verdict was the outgrowth of a dispute over a valuable plant. The plant belonged to Mr. Latham, and in the winter of 1907-08 was stored with the Memphis Floral Co., Memphis, Tenn., of which Mr. Hune is manager. Five plants were stored and four of them were returned to Mr. Latham in good order. When he caused a warrant to issue, charging he demanded the fifth it could not be located, and after waiting some time Mr. Hune with fraudulent breach of trust. The warrant was issued in April, 1908.

Within a few hours after the warrant was issued it was dismissed at the instance of Mr. Latham, through a recommendation of the attorney-general. Almost immediately Mr. Hune filed suit for $10,000, alleging false arrest and malicious prosecution as his cause of action. The case was called for trial April 14 and quite a number of witnesses were heard. The suit was hotly contested by both sides, Mr. Latham declaring that he secured the warrant while firmly convinced that his plant had been kept from him wilfully, and Mr. Hune asserting that he had made every effort to locate the plant at the proper time, and that he

ESTABLISHMENT OF JOHN A. HELFRICH, PARIS, ILL.

did, subsequently to his arrest, locate it with a lot of others and return it to Mr. Latham.

Nurseryman Held on Forgery Charge.

James Dearing of Brunswick, Mo., was arrested April 21 on a charge of fraudulently forging and altering a contract between W. T. Vickers and James Dearing by making erasures and interlineations in the contract. Complaint was made against Dearing following the finding of a jury in which Vickers was awarded $25 on a claim for $250 damages against Dearing. Dearing gave bond of $300 for preliminary hearing.

In the suit on April 21 Vickers, through his attorney, F. B. Williams, asked damages of $250, claiming he had ordered 3,000 trees from Dearing and that the trees shipped were diseased with San Jose scale and the woolly aphis. But 1,000 of the trees ordered were shipped. Dearing claimed his trees were not faulty and demanded payment of $70 for the trees. Samples of trees claimed to have been included in the shipment to Vickers were exhibited. Dearing claimed the trees were not shipped from his nursery and were grown in soil not like that in which he grew trees. Vickers in the criminal suit claims the contract which was made between him and Dearing has since been altered. It is claimed the altering of the wording of the contract caused the jury to reduce the amount of the judgment given Vickers.—Springfield, Mo., Leader.

To Be Done Now.

IN THE GREENHOUSES.

All young stock must be carefully looked after now and not allowed to stand close together and draw up spindly.

Pinch seedling cobeas once or twice to get the vines well furnished at the base and insure plenty of good foliage below.

There is still time to strike cuttings of Tropæolum speciosum and others for window boxes and small plants for bedding or window planting.

Bedding stock that is almost finished should have all the air possible to gradually harden it preparatory to planting out.

Give young rose stock a shift into larger pots if it is evident that the benches will not be ready for it on time.

Continue to pinch the young carnation plants until the foundation for good specimens is laid.

Old soil from the mignonette and violet benches, if mixed with a little new loam and manure, will be quite good enough for potting late bedding stock.

Keep a little heat in the pipes at night in all departments but avoid overheating them on cold mornings likely to turn out bright later.

Use a very light soil with plenty of well decayed manure and sand for coleus. In this material the growth will be very rapid.

Keep tomato plants pinched for pot room until the first bunch of flower buds can be seen and then give more room either by repotting or planting out.

Keep the flower buds constantly pinched out of ageratums, alternantheras and other small bedding plants.

OUTDOORS.

Place a little rough litter around the new shoots of semi-hardy plants like the giant asphodels, to protect them from cold winds.

Let the edges of lawns be well consolidated by several mowings and rollings before cutting, as they will then keep their shape much better than if cut early.

Peonies may still be transplanted with a fair chance of their flowering this season, but it is time this work was finished up or the growth will be too forward.

Sow hardy annuals if the soil is in good condition, but wait a little longer if it is not.

Draw a little soil up to the earliest rows of sweet peas to protect the young plants from cold winds or place a little rough litter along each side of the rows.

Finish the pruning of hybrid perpetual, tea and rambler roses and do any tying or staking that is necessary.

When a quantity of good salading is needed in winter sow plenty of chicory; Witloof is the best variety.

Roses for bedding may be planted at any time now if the soil is ready and well prepared. Gruss an Teplitz should be noted as one of the finest red bedders.

Clear away the old rubbish from hardy ferns and if the position is at all windswept, give the young growths a little protection.

Raffia and Raffia Wax.

When raffia, or roffia, as it was called, displaced the old "Cuba bast"—the inner bark of the West Indian mahoe tree (Hibiscus elatus)—as a tying material for garden purposes, little or nothing was known of its origin. After a while, however, it was discovered to be the produce of the Madagascar palm (Raphia ruffia) imported from the Mauritius. Raffia consists of the thin cuticle or skin of the leaf, and, notwithstanding its thinness, is very strong. The natives of Madagascar tear it into fine thread-like strips, and when dyed (chiefly in red, yellow or black) use it for making mats. In England, raffia has been used and probably is used still, for making ladies' hats. In more recent time Madagascar raffia has had competitors in some of the west tropical African species of the raphia, the cuticle of the leaves of which is similar to that of the Madagascar species, both in strength and appearance. Twisted into cord, the natives use it for the making of hammocks. Judging from a recent consular report from Madagascar, the raphia palm seems to have been attracting some attention as a wax-producing species. It appears that, when collecting the leaves for preparing the raffia fiber, the natives bring them into camps, where, after the fiber is extracted, they are left lying about, often in considerable quantities. So far back as 1905 a colonist, while examining these abandoned leaves, discovered that, when shaken, they yielded a white substance, which, upon being boiled, yielded wax. The natives were, at the time of its discovery, induced to prepare about 100 pounds of this wax, which was offered for sale in the market, and sold in lots at 1s. (24 cents) per pound. The preparation of the wax has never been repeated, nor any shipment made, as it has been considered that the resultant wax is too small in quantity, and the cost too high for it to become a commercial article, a very large number of leaves being required to produce even one pound of wax. The facts prove, however, that wax is present, though it may be only in small quantities, in other species of palms besides the two well-known sources Ceroxylon andicolum and Copernicia cerifera.—Gardeners' Chronicle.

Corozo Nuts in Mexico.

From Frontera, Consul A. J. Lespinasse writes that the corozo tree abounds throughout the Mexican state of Tabasco, being most abundant in the virgin forests, as it requires shade and humidity to develop favorably. The consul's description follows: "The corozo commences to bear in the seventh year, producing one crop annually of two or three clusters, the clusters frequently containing over 1,000 nuts, and fructifies from March to April, with total weight of 500 pounds. Every 200 pounds of the unpeeled nuts will produce 20 pounds of kernels. This plant is abundant in certain localities, where the nuts sell for $3 to $5 gold per ton of 2,200 pounds, which will yield 200 or more pounds of oil. When the corozo nut is properly manipulated it will produce 50 per cent of oil, colorless, of agreeable odor and taste. The oil can be employed for medicinal and household purposes; it solidifies at a low temperature, and according to tests made it could be employed to great advantage in the manufacture of fine toilet soaps and pomades.

"Although European houses have repeatedly endeavored to obtain information about the quantities of this nut which could be shipped, it does not appear to have stimulated its cultivation, as the tree is allowed to grow and increase in immense quantities in its wild state without receiving the slightest attention. Under proper cultivation the corozo would undoubtedly produce a greater number of nuts of better quality and greater proportion of oil. It would therefore seem that there is an opportunity to profitably develop this industry. The tree not only produces the oil-yielding nuts, but also contains a quantity of exceedingly tough fiber which resists the rotting effects of water. This could no doubt be manufactured into coarse ropes and cordage, etc. The corozo is a species of palm which attains a height of 20 feet or more; the clusters of nuts are attached to the base of the plumelike leaves which spring from the crown. A small fragment is forwarded of one of the large clusters of corozo nuts, the oil-producing kernel being inside the bonelike nut." Samples of corozo nuts from both Mexico and Colombia may be seen at the bureau of manufacturers, Washington, D. C.

OBITUARY.

Charles Biederman.

Charles Biederman, a member of the firm of Schultz & Biederman, Kansas City, Mo., was stricken with a hemorrhage while walking along Grand avenue April 13. He was assisted to the office of Dr. Julius Frischer, where he died. Mr. Biederman, whose home was at 3325 Prospect, was 70 years old, and had lived in Kansas City 45 years. He was a noted hunter and was Kansas City's oldest sportsman. He is survived by his son William and three daughters.

Walter Scoon Hogg.

Walter Scoon Hogg, one of the pioneers in the florist business in Providence, R. I., died suddenly at his home, 34 Congdon street, April 18. Although he had been in poor health for several months, he was not confined to his home, and on the day of his death attended church. Later in the day a hemorrhage of the brain caused his death. Mr. Hogg was born in Scotland in 1844, and came to America in early childhood. He was educated in Providence, and had always lived in the section of the city where he died. In 1864 he entered business as a florist at the corner of Benefit and Meeting streets, there being at the time but three establishments of that kind in the city. He was very successful and retired in 1900.

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There is no unbelief;
Whoever plants a weed beneath the sod,
And waits to see it push away the clod,
He trusts in God. —Lytton.

MOTHER'S DAY, when all good citizens will wear a white carnation, is May 9. Mother's day has been made an official state holiday by Governor H. S. Vessey of South Dakota.

National Council of Horticulture.

The titles of the articles included in the sixth installment of the press service of the National Council of Horticulture are "Easy Plants for the Aquatic Garden," "Elephant Ear," and "Making an Asparagus Bed." These excellent articles may be obtained free on application to J. H. Burdett, 1720 West One Hundred Fourth place, Chicago.

MISSISSIPPI.—The name is Chionanthus Virginica, commonly known as fringe tree or old man's beard.

AGAIN the hailstorms in various parts of the country have caught florists unprepared or uninsured. Such lessons should be taken to heart by those who are building new glass or who have plants still uninjured and uninsured.

American Carnation Society.

CARNATION REGISTERED.

Kathleen B. W.—By F. Schramm, Park Ridge, Ill.; sport from Mrs. Thos. W. Lawson; color light pink; size three inches. This registration is provisional, subject to the decision of the judges at the next annual meeting as to its distinctiveness.

A. F. J. BAUR, Sec'y.

Society of American Florists.

REGISTRATION OF HYDRANGEA.

Public notice is hereby given that E. Y. Teas, of Centerville, Ind., offers for registration the plant described below. Any person objecting to the registration of this plant or to the use of the proposed name is requested to communicate with the undersigned at once. Failing to receive objection to the registration the same will be made three weeks from this date:

Hydrangea cinerea sterilis. (Teas' Snowball hydrangea). Collected from forest; a sport from Hydrangea cinerea; growth upright, spreading; foliage glaucous, pointed, serrated; height four feet; flowers snow-white.

W. N. RUDD, Secy.

April 23, 1909.

Chrysanthemum Society of America.

It is the earnest desire of those interested in this society to increase its membership. It should be understood that the secretary is the only officer receiving a salary, and he only a nominal sum, much less than the work involved deserves. The other officers, including the executive committee and the members of the committees who judge the varieties each year, perform their duties solely for the welfare of the society. The work of the committees deserves unlimited endorsement from all persons interested in this branch of floriculture.

There was a time when new varieties were sent out in large numbers upon the merits as they appeared to the originator and in many cases they did not sustain the glowing description applied. Today all newcomers must be endorsed by the society's committees to interest the public to any great degree. Some may say all the certificated varieties do not come up to the standard. I know from experience there is no favoritism shown in the awards. The members of these committees are not superhuman and can not discern from the six blooms submitted certain defects that are either constitutional or controlled by cultural conditions. I refer to those susceptible to disease, difficult of propagation, insufficient petalage, etc. They give their unbiased opinion of the six blooms before them and that is all any mortal man can do. These gentlemen are certainly entitled to the hearty support and praise of every grower for the unselfish zeal they have manifested in devoting time and money to this work. Their benevolence enables the society to protect the buying public against worthless sorts.

I feel there are too few commercial and exhibition growers interested in this charitable work. I say charitable because we save dollars for every grower by indicating the best kinds for his purpose and do this without compensation. Am I asking too much of any grower, either private or commercial, to send C. W. Johnson, secretary, Rockford, Ill., $2 (the annual membership fee)? All of us spend this small amount in some foolish way without benefit. Some may say it is unnecessary to join the society as its important matters are made public through the trade papers without additional cost. This is true, but we all have a moral obligation which should not be lost sight of. The florists of this country are like one large family whose interests are in sympathy. One grower's failure with a certain crop prevents him meeting his obligations and thus his misfortune bounds and rebounds to others in the trade. If this organization, through its efforts, has pointed out the best sorts and has thus been a benefactor, it is up to those receiving such service to join hands and assist. Let us hope every one in the trade has interest in the welfare of all and has pride enough to support this worthy cause by giving liberally of moral and a small amount of financial support.

ELMER D. SMITH, Pres.

Adrian, Mich.

Agricultural Press Amenities.

More Lying.—The mendacious Rural New Yorker is again snarling at the heels of the Country Gentleman, and in a manner more contemptible if possible than its persistent shrieking last year of the falsehood that we had defended the Dawley cattle transactions. It says that we took a subscription for that paper and appropriated the money instead of remitting it, and that they have been trying in vain since Christmas to collect it. It may be worth while to add, in view of the same paper's recent attack on the Buffalo Fertilizer Co., that, before making it, Mr. Collingwood or his associates strained every nerve to secure the advertising of that company, by circulars, signed letters and personal visits—but unsuccessfully.—Country Gentleman.

Meetings Next Week.

Buffalo, N. Y., May 4, 8 p. m.—Buffalo Florists' Club, Saturn hall.

Chicago, May 6, 8 p. m.—Chicago Florists' Club, Union restaurant, 111 Randolph street.

Cincinnati, O., May 8, 8 p. m.—Cincinnati Florists' Society, Jabez Elliott Flower Market.

Dayton, O., May 3, 8 p. m.—Dayton Florists' Club, 37 E. Fifth street.

Detroit, Mich., May 3, 8 p. m.—Detroit Florists' Club, Cowie building, corner Farron and Gratiot streets.

Grand Rapids, Mich., May 3.—Grand Rapids Florists' and Gardeners' Club, Board of Trade rooms, Pearl street.

Indianapolis, Ind., May 4, 7:30 p. m.—State Florists' Association of Indiana, Indiana State House.

Louisville, Ky., May 4, 8 p. m.—The Kentucky Society of Florists.

Milwaukee, Wis., May 6, 8 p. m.—Milwaukee Florists' Club, Quiet House, corner Broadway and Mason street.

Montreal, Que., May 3.—Montreal Gardeners' and Florists' Club, Royal Guardian building, 211 Sherbrooke street, West. Paper on "Insects and their Control," by D. Weir, McDonald College.

New Orleans, La., May 5, 8 p. m.—German Gardeners' Club, 624 Common street.

Newport, R. I., May 5, 8 p. m.—Newport Horticultural Society.

Pasadena, Calif., May 7, 8 p. m.—Pasadena Gardeners' Association, G. A. R. Hall, East Colorado street.

Pittsburg, Pa., May 4, 8 p. m.—Pittsburg and Allegheny Florists' and Gardeners' Club, 422 Sixth avenue.

Salt Lake City, Utah, May 4.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

Seattle, Wash., May 4.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.

Utica, N. Y., May 6, 8 p. m.—Utica Florists' Club, Hotel Martin.

Washington, D. C., May 4, 8 p. m.—Florists' Club of Washington, 1214 F street, N. W.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—As salesman designer and decorator: salary considered if position good. Key 858, care American Florist.

Situation Wanted—By young man (19) as assistant in greenhouse (4) years experience. J. SCHWENK, 98 Pearl St. Kingston, N. Y.

Situation Wanted—By an all-around grower, commercial or private place, single, 17 years experience. Key 851, care American Florist.

Situation Wanted—By a married man without children, age 35, French; first-class references as gardener and florist. Address PIERRE P. O. Box 2, Glen Cove, N. Y.

Situation Wanted—A young man, college graduate with experience in landscape gardening and park work desires position with landscape firm. Key 853, care American Florist.

Situation Wanted—By young married man as grower of carnations, 'mums, vegetables and bedding plants; either commercial or private and near Philadelphia; 10 years' experience; best of references; at liberty June 1. Address Key 828, care American Florist.

Situation Wanted—A good experienced florist with good education, honest and loyal to his employer, wishes position; private place preferred willing to go south or southwest; German, 39 years of age, married. Addess P. R. K., 1546 S. 17th St., Terre Haute, Ind.

Situation Wanted—By an expert propagator and grower of general line of cut flowers and pot plants; German; ten years in Germany, six years in this country; can take charge; sober and steady; only good place wanted; married; 29 years old. Address B. KAEZOR, 332 Mettler St., Toledo, Ohio.

Help Wanted—Florist and gardener experienced on private place. Address with full particulars. J. A. BRIGEL, Mt Airy, O.

Help Wanted—Young man for our wholesale cut flower store; must have experience in that line. THE J. M. GASSER CO., 1035 Prospect Ave., Cleveland, O.

Help Wanted—First-class man or woman florist to take charge of retail store; must be good designer and strictly sober and reliable. Call or address WALTER ARMACOST, Ocean Park, Calif.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address Key 849, care American Florist.

Help Wanted—A competent young man to do general greenhouse work on retail place; nice place; county seat; near Pittsburg, Pa.; Catholic preferred. Key 844, care American Florist.

Help Wantad—An all-round greenhouse man, single, who understands designing; carnations, 'mums, pot plants and general line of plants; sober, give reference also state wages with board and room. J. M. NUSSBAUMER, San Angelo, Texas.

Help Wanted—Reliable man to grow general stock, carnations, 'mums, roses, potted stuff; house now being built, 22x140; must be sober, reliable and capable of taking entire charge; position permanent; give references and salary expected in first letter; place ready May 15. HOSKINS' FLORAL CO., Bismarck, N. Dak.

Help Wanted—Five section men on roses (Teas); also some young men, 19 to 25 years of age, as helpers and for general labor work around greenhouses; sober men only; salary paid according to ability and experience. Please address POEHLMANN BROS. CO., Plant B, Morton Grove, Ill.

Help Wanted—Combination landscape gardener and florist; a good salary will be paid right man; European man preferred; must be up-to-date and capable of contracting. Address Key 856, care American Florist.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address Key 857, care American Florist.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

For Sale—5 greenhouses, 6,000 feet of glass, in perfect order, built 3 years, stocked with vegetables and bedding plants; a rare opportunity for a vegetable grower; 4 acres of land; ready sale for everything you can raise; will be sold at a bargain; owner got to leave city; easy terms; location, Okla. Key 850, care American Florist.

Wanted to Rent—By first of July; place of about 10,000 feet of glass in good condition; suitable for pot plants, if good retail trade is connected with place size of it can be small; if outside of Chicago please give full and correct information in first letter. Address E. ARLT, Jefferson Park Sta., Chicago, Ill.

For Sale or Rent—Greenhouses, close to Rockford, Ill.; 10,000 feet of glass; lot 120x165; 6-room dwelling house on premises; plant just rebuilt after fire. No stock. Address EDWIN DEMPSEY & CO., Rockford, Ill.

For Sale or Rent—My up-to-date floral store and business. All you have to do is to take off your coat and go to work. Trade established; business good; the nicest store and in the best location you ever saw. I am overworked and have other interests that demand my attention. A full equipment. Modern, new brick building belongs to me. Room to expand. Should you choose, don't waste time writing. You will want this if you see it. Better be first. If you are first, will hold trade open for you. A. T. HOLMES, 708 Minnesota Ave., Kansas City, Kans.

For Sale.

Good retail store in one the best business cities of the middle west. Now clearing $2500 annually, and showing an improvement every year. Fine opportunity for a pushing man. Good reasons for selling. Address

Key 852, care American Florist.

For Sale at a Bargain.

My greenhouse establishment, wholesale and retail; 35,000 sq. ft. of glass in town of 10,000, 10 miles from Chicago; also dwelling and 15 lots; must sell on account of sickness. **F. R. HILLS,** Maywood, Ill.

Men for Outdoor Wook.

We want two good men experienced in the planting and trimming of shrubs and in general jobbing work around small private places. Give full particulars, including experience, age and wages expected. Address

Key 854, care American Florist.

Good Opportunity.

A chance for an ambitious young or middle aged man to get into business for himself. Half interest in a business which can be made to pay $150.00 per month by a hustler and grower. 'Mums, carnations, roses and pot plants. Trade established. If interested write giving experience reference, etc., to

A. J. SEIDERS,
Route 4. **1106 W. 38th St., AUSTIN TEXAS**

Wanted to Lease or Buy

Florists' place, with one to five acres of land within 50 miles of Chicago. Send full particulars, including price and terms. Address

Key 860, care American Florist.

Young Man's Opportunity

The advertiser wants a young man who has had some years' experience in practical greenhouse work to call on the greenhouse trade. Good opportunity for young man with ability to sell goods. State age, experience and salary. Address

Key 859, care American Florist.

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y.

Trade Directory

(EDITION OF 1909.)

Of the Entire Horticultural Trade of America
Is Now Ready for Mailing. Price $3.00, Prepaid.

A complete alphabetical list of all American cities, with the names and addresses of all commercial horticulturists therein. A separate list, arranged alphabetically, of every commercial horticulturist in this country. These lists are keyed to indicate the special line or lines of each establishment. The book also contains special lists, as follows:

Park Superintendents,	Horticultural Societies,*	Florists' Clubs,*	Supply Concerns,
Landscape Gardeners,	Experiment Stations,*	Foreign Houses,	Judging Scales,
Trade Associations,*	Botanical Gardens,	Catalogue Firms,	Seed Growers,
Leading Cemeteries,	Postage Rates,	Express Rates,	Statistics.

*With new officers to date.

AMERICAN FLORIST CO., 324 Dearborn St., Chicago, U. S. A.

Lawns and Lawn Making.

One of the most difficult propositions that our park superintendents have to encounter is the making of a great many blades of grass grow where nothing grew before—in other words, to create a fine sward or lawn on land reclaimed from swamps or sandy wastes and often of a most unsuitable character. For grass, though so common as a weed, must have fairly good soil to grow in if a good turf, that will stand the summer's sun and the winter's cold, is to be produced. And these conditions of summer heat and cold are so pronounced that only the hardiest kinds of grasses, and not those finer kinds that make close level lawns can stand them without heavy waterings in summer and more or less protection in winter. The value of these grand open spaces around our cities cannot be expressed in mere dollars and cents. It is incalculable, as is the effect for good upon the thousands of citizens that use them.

We can, however, safely leave the park men to their own troubles, they are quite capable of looking after themselves. Those of our readers, though, who have perhaps purchased or rented a home in some such position as noted where drifting sand is the principal constituent in their gardens may be excused for feeling rather hopeless at the prospect. Yet they need not give up. Time and labor judiciously employed will work wonders in cases of this sort. But begin right; never start by sowing grass seed or laying sod. First of all take a look at the plot of ground and decide what is best to do with it. If it is very much windswept decide where would be the best position to plant a windbreak of trees or throw up a bank of soil for the same purpose. There may be parts of the plot that are too high and others too low for the scheme of planting and all the grading work should be attended to first. Moving earth has been described as only second in difficulty to moving heaven, so let one moving be enough and put the soil where it is needed in the first place.

In localities where danger from surface water is not feared a sunken garden and lawn is often a very nice feature and where the position is much exposed the depression is of great value to tender and semi-hardy plants, also to the grass. Such positions are moister in summer and warmer in winter than the surrounding level and the subject is well worth considering. The banks that are thrown up with a southern exposure are splendid places for many kinds of flowers. If sown to grass early crocuses, daffodils, snowdrops and other bulbs may be planted and this will be one of the most pleasant parts of the garden in early spring. The bank facing north will be a fine place to plant hardy ferns, English ivy (where it will grow) and similar plants that thrive in semi-shade while the banks themselves break the monotony of a level and give a fine opportunity for planting a weeping tree or two or a few trailing roses. Avoid making the slopes so steep, though, that the lawn mower cannot be used on them and also avoid straight lines when possible. There may possibly be a tree already standing on the place. If it has any ornamental value leave it and it will probably form an excuse for a curve in a bank or walk.

On a recent very windy Sunday the writer was walking in one of the suburbs south of Chicago where many new houses, each standing in its own little lot, have recently been erected. The soil is a shifting sand and there were many old willows standing there. These are not very ornamental, it is true, but in such a position the gardener should welcome anything that forms ever so little break against the wind and helps to keep the sand in place. But these were being cut down and the soil everywhere brought to the same dead level, a waste of time and good garden material. Had they been left, or at least some of them, the surrounding soil could have been sloped gradually up to them and, in some cases, the heads could have been so trimmed that, in a few years, they would have been an ornament to the garden not a dissight. At least, they would do for training something else over and would, in some measure, prevent the sand drifting.

On such soils as these anything in the way of vegetable refuse or rubbish of almost any kind is a help in binding the soil and adding humus. The first thing to do is to grade the entire plot just as it is required. If there is any tufted grass of a perennial nature or other deep rooting weeds let these be chopped up and dried to be later burned and added to the staple. There may be foundations for other houses being dug in the neighborhood and soil of a better character being dumped. If this can be obtained for the price of teaming it will be well worth it for adding to the staple while any chance oddments of turf or sod, ditch cleanings or material of this kind is very valuable. Last a thorough coating of good manure should be spread all over the surface and after laying a few days this should be lightly forked in. After allowing a week or two for settling the soil should be raked over level and is then ready either for sowing to grass seed or sodding.

Heavy moist soils or soil that is badly drained will need different treatment and such soils, if an outlet can be found for the water, are not so much trouble to get in order. Drains should be cut every 12 or 20 feet, according as the position is very wet or only moderately so, and filled in with rough stones or bricks, clinkers or similar material to within six inches of the surface. This work should be carried out in early fall or late summer and the drains should be sloped considerably, according to the lay of the land and have a common outlet at one end. When the drains are all finished the soil should be well turned up and left rough all winter, the spring treatment consisting of leveling it down with forks and rakes and adding thereto any ashes, sand or other lightening material that is at command.

The varieties of grass suitable for lawns are numerous but as a rule it is safer for the amateur to put himself in the hands of a reliable seed house, explain the nature of the soil and the size of the plot to be sown and leave it to the firm to supply what is needed. These houses have usually mixtures ready prepared that are suitable for lawns in the different soils and localities. The soil should be raked thoroughly and left roughly level using a coarse toothed rake at the last to form the little inequalities in the soil necessary to cover the seed. Then sow the seed broadcast, very thinly at first, going over the ground at least three times and in different directions each time. Then lightly rake over, leaving all perfectly level. This work should never be carried out on a windy day or much of the seed will blow away and be wasted. And the soil must be in just the right condition, not so wet that it sticks to the feet or rake, or absolutely

(CONTINUED ON PAGE 700.)

Fancy and Dagger FERNS $2.00 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs. 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway. All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

south of Chicago where many new houses, each standing in its own little lot, have recently been erected. The soil is a shifting sand and there were many old willows standing there. These are not very ornamental, it is true, but in such a position the gardener should welcome anything that forms ever so little break against the wind and helps to keep the sand in place. But these were being cut down and the soil everywhere brought to the same dead level, a waste of time and good garden material. Had they been left, or at least some of them, the surrounding soil could have been sloped gradually up to them and, in some cases, the heads could have been so trimmed that, in a few years, they would have been an ornament to the garden not a dissight. At least, they would do for training something else over and would, in some measure, prevent the sand drifting.

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(CONTINUED ON PAGE 700.)

New Crop of Ferns

FANCY AND DAGGER

Log Mosses, Natural and Perpetuated.
Lyrata, (The New Green).

E. A. BEAVEN,

EVERGREEN, ALA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

New Crop Ferns

FANCY and **DAGGER** ready May 1st.

Special price for large orders
Price $1.25 per 1000.

CALDWELL THE WOODSMAN CO.,

EVERGREEN ALA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax Ferns, Palm Leaves** and all kinds of **Green Goods.**

KILLARNEY

MAIDS, BRIDES, RICHMOND AND BEAUTIES

EXTRA FANCY CARNATIONS

Big Crops. **PRICE LIST.** **Low Prices.**

AMERICAN BEAUTIES. Per doz.

Extra long	$3 00
24 to 30-inch	2 00
20-inch	1 50
15-inch	1 00
12-inch	$ 50 to 75

KILLARNEY AND RICHMONDS.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00

BRIDES, MAIDS AND PERLES.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00
Short Roses, our selection, in lots of 500 or more, per 100,	2 00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100,	$3 00
Fancy white, good stock, per 100	3 00
Fancy pink, good stock, per 100	$2 50 to 3 00
EASTER LILIES, per doz. $1 50; per 100	10 00
LILY OF THE VALLEY, per 100	3 00 to 4 00
SWEET PEAS, per 100	50 to 1 00
ASPARAGUS SPRAYS, per 100	2 00 to 4 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, per doz	2 00
ASPARAGUS STRINGS, per string	50
ADIANTUM, per 100	1 00
GALAX, bronze, per 1000	1 50
GALAX, green, per 1000	1 50
FERNS, per 1000	3 00

BUY DIRECT OF THE GROWERS

Bassett & Washburn,

Store and Office: 76 Wabash Ave. CHICAGO. Greenhouses: HINSDALE, ILLINOIS.

St. Louis.

STOCK OVERPLENTIFUL.

The glut during the past week was heavy and stock was slaughtered. Up till Saturday all the houses were stocked up. Saturday everything stiffened up. The prices during the week at the down-town retail stores were deplorable, carnations and roses at 5 cents per dozen. This kind of business is degrading and detrimental to the trade. Lilac is now coming in from the suburbs and outdoor flowers will now be side by side with indoor stock and of course will tend to lower prices all around. Carnations were up on Saturday and Sunday to two to three cents. Roses are in good supply, though not so plentiful. Sweet peas, owing to the passing away of violets, have the call and prices on these have stiffened considerably, 35 to 50 cents per 100. Ferns are now quoted at $3 per 1,000.

NOTES.

Smith Floral Co. has just purchased a horse for its special quick delivery. The animal is a good one and is a thoroughbred, having been seen on our race courses when the races were running.

There was a flower war on Eighteenth and Olive last week. Carnations at five cents per dozen, with two goldfish thrown in. Kelley Floral Co. and Joseph Goldbach were the belligerents.

J. J. Beneke and Ostertag Bros. had two of the largest horseshoes ever seen here last week at the opening of the National League baseball season—Chicago Cubs versus the Cardinals.

Young & Sons are very busy with seeds and have several large plant orders, as soon as weather permits, to work on.

Grimm & Gorley had a runaway last week, doing considerable damage to their wagon. W. F.

IF YOU ARE IN NEED OF

Good Stock

We are fully confident that we are in a position to fill your wants

Why? Because we carry the kind of stock that you are looking for, as we make a specialty of producing high grade stock of all kinds, being specially strong in

BEAUTIES
ROSES and
CARNATIONS

We are in a position to fill all orders in a very satisfactory manner, as a trial order will convince you. Give us a chance to show what we can do.

ROSES, All Varieties **CARNATIONS, All Colors**

All other Cut Flowers in season

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

With Just Half a Chance

Or, in other words, half of your standing order for a week or ten days' trial, we'll prove to you that it pays to trade at ZECH & MANN'S. You get RIGHT STOCK at RIGHT PRICES with RIGHT and INTELLIGENT SERVICE. In short you get a square deal and you always will as long you care to stay with us.

Roses and Carnations

In large supply. Excellent stock with right prices. Let us have your next order or part of it and you will find out why our business is now fast expanding.

Lilies, Valley, Sweet Peas and Green Goods

We have the kind and grade of stock you want. Write us for special prices on large lots.

ZECH & MANN, Wholesale Florists L. D. Phone Central 3284. 51 Wabash Avenue, **Chicago.**

Lawns and Lawn Making.

CONTINUED FROM PAGE 698.

dry. When the raking is finished go over the surface with a light roller and the work is complete.

In sodding a new lawn the same careful preparation of the soil is needed though the surface need not be quite so fine as for the seed bed. All that is needed is that it shall lay even and be in the right condition, not too wet or too dry when the sod is laid. But all the preparation of the soil is useless unless the sod is cut of a regular thickness and this part of the work is most important. The thickness will in some measure depend upon circumstances. Where the sod has to be hauled a long way the custom is to cut it thinner than is otherwise advisable with a view to saving weght. Again some soils on which good sod grows is so thin and so stony below the surface that the operator has no choice in the matter; he has to do the best he can under the circumstances. But where there is a good thickness of soil and not too heavy two inches is not too deep. The grass suffers less in a dry season when cut this depth than when skinned off and the roots cut close up to the crowns. Laying the sod when it is cut is a simple operation. Let each piece be laid within about an inch of the next one as when the roller is applied later the turves are flattened out and if placed close together the edges are apt to ride each other. Any interstices can be filled with loose, fine soil which will wash down with the watering and make a solid sward.

When speaking of lawns one is sure to remember the answer of the English gardener when asked how he managed to have such fine lawns. "We mow them and roll them and roll them and mow them for hundreds of years." This is the secret of the splendid lawns there seen, lawns in which the foot sinks as into a Turkish carpet and the surface of which is as level as a billard table. But in this country something besides rolling and mowing is needed. Too close cutting in the heat of summer is apt to be a mistake and watering is also necessary to maintain its color. In winter, too, protection by means of loose litter is a great help and if neatly placed not more unsightly than the blackish brown mass that the lawn would become without it. But the rolling and mowing are good things nevertheless and must not be neglected.

To return to our lawns from seed, it may be necessary where birds are plentiful to protect the surface with netting or some other way but as a rule this is not needed. When the grass is well up and getting strong there will probably be a crop of weeds as well, no matter how carefully the soil was prepared or how clean the seed. One good weeding by hand if carefully done is a great help and the slight disturbance of the soil caused by the drawing of the weeds is an advantage rather than otherwise to the grass roots. When it can be arranged the first cutting should always be done with the scythe or if with a mower a very light machine with the knives in perfect order must be used and used carefully. By the time the next cutting is due the grass roots will be stronger and a light rolling will not do any harm but will solidify the soil around them. After this careful mowing, rolling and watering will be all that is necessary. With winter protection and summer care a lawn made this way will go on improving each year and be a source of great pleasure to the owner.

CROMWELL, CONN.—A. N. Pierson left for Pittsburg, April 22, by way of Atlantic City.

SALINA, KANS.—Edward Tatro had his greenhouse badly damaged by a hailstorm April 11. About 100 panes of glass were broken but the plants were only very slightly injured. The loss was covered by insurance.

RICHMOND, IND.—Wm. Meine, for years traveling salesman for the Chas. Knopf Floral Co., and now a member of Meine & Noss of the Crystal Springs fishery, was married to Miss Anna Michelsen of Chicago in that city April 6.

YOUNGSTOWN, O.—John Walker reports a fine Easter trade and says it would have been better if the weather had been milder. The principal demand was for lilies and azaleas. Rambler roses and hyacinths did not sell so well as in previous years. Tulips sold well. Mr. Walker will build three houses this year, 32x200 feet, to take the place of five old ones which he is pulling down.

Give Us a Trial. We Can Please You

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

ATCHISON, KANS.—R. J. Groves reports a slight drop in sales at Easter.

GREENWICH, CONN.—Alexander Mead & Son occupied the Abrams building during the Easter week, and did a large business.

SAN FRANCISCO, CALIF.—The business of the late J. B. Boland will be carried on as usual under the name of J. B. Boland, florist.

COLUMBUS, O.—Graff Bros. have leased for five years, with privilege of renewal, the store next door to their present location on High street.

ST. GEORGE, N. Y.—Thos. Adams, who conducts the flower stand at the New York ferry terminal, reports business as unprecedentedly large.

BOISE, IDAHO.—The Bayhouse Floral Co. says the Easter sales this year were fully one-third greater than those of last year at similar prices. Cut flowers were scarce, also some varieties of plants, lilies being the best sellers in the latter, with hydrangeas and bulb stock following in the order named. Carnations had the lead in cut flowers.

SAGINAW, MICH.—The Roethke Floral Co. reports Easter business as about the same as last year with plenty of stock. The cold weather and prevailing high winds hindered delivery. Less church decoration than in former years was carried out, owing, principally, to concerted action by the churches, otherwise trade would have been much greater.

Extra Fancy Carnation Blooms

Cut fresh every day, $2.00 per 100. Special prices on large lots.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., **Joliet, Ill.**

REINBERG'S ROSES

Outlast Any Others

AMERICAN BEAUTIES

	Per doz.
Long stems	$4.00
30-inch stems	3.00
24-inch stems	2.00
20-inch stems	1.50
15-inch stems	1.00
Short stems	.75

Richmond

	Per 100
Select	$6.00 to $8.00
Medium	3.00 to 5.00

Killarney	
Select	6.00 to 8.00
Medium	3.00 to 5.00
Mrs. Marshall Field	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid, Bride	3.00 to 6.00
Chatenay	3.00 to 8.00
Ivory	3.00 to 6.00
Perle, Sunrise, Select	3.00 to 8.00
Roses, our selection	3.00

CARNATIONS

$2.00 to $2.50 per 100.

Easter Lilies	$1.50 per doz.
Callas	1.50 per doz.

	Per 100
Tulips	$4.00 to $5.00
Valley	3.00 to 4.00
Daffodils	3.00 to 4.00
Asparagus Plumosus Extra quality, per bunch	50c to 75c
Fancy Ferns, per 1000	$3.00

Give your customers roses that keep well and you will keep your customers.

PETER REINBERG

35 Randolph St., CHICAGO.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

— CONSIGNMENTS SOLICITED. —

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

Wholesale Flower Markets

ST. LOUIS, April 28.

Roses, Beauty, long stems	2 50@ 3 00
" " medium stems	1 00@ 2 00
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 8 00
" Ivory	2 00@ 6 00
" Killarney	2 00@ 8 00
" Mrs. Potter Palmer	2 00@ 6 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 8 00
" Alice Roosevelt	2 00@ 8 00
Carnations, fancy	2 00@ 2 50
" common	1 00@ 1 50
Lily of the Valley	3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000	$3 00
Smilax	12 50@15 00

CINCINNATI, April 28.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 6 00
Carnations	2 00@ 4 00
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, April 28.

Roses, Beauty, special	3 00@ 4 00
" " fancy	2 00@ 3 00
" " shorter	50@ 1 00
" Bride, Bridesmaid	3 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
" Short	2 00@ 3 00
Carnations	1 50@ 3 00
Callas	5 00@10 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	12 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Violets	40@ 50
Asp. Plumosus strings, each	40@ 50
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	15 00

MILWAUKEE, April 28.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodils	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 75
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, "	35
Ferns, Common, per 1000	3 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	1 00

	Per 100
Killarney, select	$ 8 00
Medium	$3 00 to 5 00
Mrs. Jardine, select	8 00
Medium	3 00 to 5 00
Uncle John, select	8 00
Medium	3 00 to 5 00
Bridesmaid and Bride, select	8 00
Medium	3 00 to 5 00
Chatenay, select	8 00
Medium	3 00 to 5 00
Richmond, select	8 00
Medium	3 00 to 5 00
Carnations, fancy	2 50
Good	1 50 to 2 00
Easter Lilies, short	10 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Violets	1 00 to 1 50
Valley	3 00 to 4 00
Daffodils	3 00 to 4 00
Callas	12 00 to 15 00

Asparagus Plumosus Extra quality, per bunch..... 75c
Fancy Ferns, per 1000.....$ 2.50

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, **ST. LOUIS, MO.**

Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Winterson's Seed Store

Nurserymen, Plantsmen, Seedsmen and Florists' Supplies.

45-47-49 Wabash Avenue, Long Distance Telephone Central 6004. **CHICAGO.**

Just received another Carload of Boxwood

which we offer at following prices. (subject to being unsold upon receipt of order.)

PYRAMID	Each	Pair	BUSH FORM	Each	Pair
18 to 24-in	$1 00	$1 65	18 to 24 in.	$1 00	$1 75
24 to 30-in	1 35	2 50	24 to 30-in.	1 35	2 50
30 to 36 in	1 85	3 50	30 to 36 in.	2 50	4 50
36 to 42-in	2 40	4 40	36 to 42-in.	3 50	6 50
42 to 48-in	2 90	5 40			
48 to 54-in	3 75	6 50			

If You Are Interested In CANNAS

Write us before you place your orders We can quote you low prices in quantity. We have the goods.

Tuberoses, Caladiums, Gladiolus,

Are now ready for shipment. We carry a full stock of leading grades of above.

REMEMBER We carry everything a florist uses in supplies

Our Catalogue Free for the Asking.

Chicago.

USUAL SPRING CONDITIONS PREVAIL.

The market is in good normal conditoin for this time of year. Supplies are large and prices are low. Consequently large lots are forced off at about whatever price the retailers will stand for, and the general market conditions have induced larger buying on the part of many who buy only to fill orders actually in hand when flowers cost more. The volume of business is about equal to that of last year for the corresponding period. American Beauty roses are selling well, but buyers are more exacting as to the quality than they have been. The miscellaneous roses continue in very heavy supply. Killarney is now in very heavy crop with nearly all rose growers. The supply of roses is slowly diminishing owing to replanting in the greenhouses, but this has had no noticeable effect on the market conditions. Carnations are in good supply, but are slightly firmer this week because of the fact that some of the larger growers are now practically off crop. There are, however, enough to go around for all ordinary demands. In bulbous flowers tulips and daffodils are very scarce. This has made iris good property. Fancy snapdragon has also been rather scarce. Callas are in very heavy supply and poor demand. Easter lilies move a little more readily. Some ixias are seen and they make a pleasing variety.

NOTES.

On May 1 the Eaton Flower Shop will open up a new store in the Fisher building, 273 Dearborn street. About June 15 possession may be had of the place at 73 Jackson boulevard, which was recently leased, and after that date both stores will be operated. The present location at 86 Jackson boulevard will be vacated by the end of the present week.

C. S. Griffith will have temporary quarters at 1 North avenue after May 1 and until the new building is completed on the site of his present location at 10 North avenue. He reports having had a big Easter business at his newly opened store in the Plaza hotel.

The Pittsburgh Floral Co. is showing some magnificent vases in bronze that add greatly to the attractiveness of this fine store. One filled with yellow snapdragons and ixias is especially choice. A great variety of high class spring stock is to be seen here.

Jacob M. Prost, assistant to Jens Jensen during his three years as general superintendent of the west parks, will be the first city forester of Chicago, having passed highest in the civil service examinations for the new position.

Twenty-two of the state legislators and park officials last Friday made an automobile trip through part of the territory where it is contemplated to establish a forest reserve park on the outskirts of the city.

Wm. Feniger, of Toledo, O., was in town Sunday to entertain with Miss Lilly Bloom, of Bassett & Washburn's office force, their friends here at the reception announcing their engagement.

Bruno Kennicott is seriously ill at the Presbyterian hospital following an operation for appendicitis. He was last reported as having a fighting chance for recovery.

E. P. Armstrong, of Weiland & Risch's sales force, has purchased the business of the Palace Floral Co., 189 N. Clark street, and will assume charge on May 1.

Rudolph Schile, first assistant gardener, is temporarily filling the vacancy caused by the recent resignation of Alois P. Frey, chief gardener at Lincoln park.

A. Iralson, 588 E. Forty-third street, has sold his business to A. W. Morgan, formerly of Danville, and will move next week to his farm near Wendell, Idaho.

The Florists' Club will meet next week Thursday at the Union restaurant. The proposed new by-laws will be passed to second reading.

Edward Amerpohl's late acquisition of C. Dwight's greenhouses at Janesville, Wis., will give him about 45,000 square feet of glass.

It is rumored on the market that the Schiller estate has acquired an interest in the Chicago Carnation Co., of Joliet.

The Geo. Wittbold Co. is doing a very heavy plant business this season, the demand being exceptionally strong.

L. Baumann, who has been in Cuba for some time, left last week for Baltimore, Md., for a European trip.

A. T. Peterson, of Wheaton, has the sympathy of the trade here in the death of his wife last week.

Otto Benthey has purchased the greenhouses of the Benthey-Coatsworth Co., at New Castle, Ind.

Wietor Bros. have an American Beauty section that is just now coming into very heavy crop.

C. N. Thomas, of the A. L. Randall Co., has returned to his Pennsylvania farm for the summer.

A. I. Simmons has been ill again, a very painful abscess having formed in his ear.

Mrs. O. P. Bassett has been suffering from peritonitis, but is now improving.

Bassett & Washburn are already planting carnations in the field.

L. Coatsworth is very ill with appendicitis.

The Kennicott Bros. Co. has been showing some very fancy blue iris.

Visitors: Fred Rowe, of Bloomington; F. M. Smith, of Smith & Fetters, Columbus, O.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing. I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

ROCKFORD, ILL.—John W. Ingalls & Co. have moved their greenhouse to Lawson street.

PLEASANT PRAIRIE, WIS.—Sam Fredson has erected a small greenhouse on his truck farm.

DECATUR, ILL.—Chas. Hander has rented the greenhouses of A. M. Schafer on Balmoral avenue.

NEW CASTLE, IND.—L. A. Jennings has sold his greenhouse range near the Union station to Weiland & Olinger.

BEAUMONT, TEXAS.—The greenhouses of the Southeast Texas Floral Co. are to be considerably enlarged this season.

DES MOINES, IA.—The Lozier establishment will be moved from its present location on Walnut street to make room for a new theater.

NEW CASTLE, IND.—Otto L. Benthey is now owner of the big Coatsworth greenhouse plant. The transfer to Mr. Benthey carried with it a payment of $30,000.

ROCKY RIVER, O.—The Rocky River Greenhouse Co. has been incorporated with capital stock $50,000. C. C. Christensen, H. J. Pease, J. Wind, H. E. Asplin and John Hogg are incorporators.

GRAND RAPIDS, MICH.—The Grand Rapids Greenhouse Co. says sales were very satisfactory, with prices the same as a year ago. Roses were the only short items. All plants were in good demand.

CUMBERLAND, IND.—Very serious floods have occurred here, bridges being washed out and much damage done. Frank Millman's greenhouses on Green street were about the center of the flood in that locality.

ST. PAUL, MINN.—The Gardening Club is a very live institution here. Formed as recently as the latter part of 1908, there are now 132 members, many of them being people of influence in the city. The holding of flower shows at a very small price for admission (10 cents), assisting the park board in its efforts to beautify the city, the formation of school vacation gardens, and other things to help along the line of making this the most beautiful city in the world are among the aims and purposes of the club.

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in **Violets, Valley Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

"THE BUSIEST HOUSE IN CHICAGO"

Yours for Flowers,

J. B. DEAMUD CO.
51 Wabash Ave., Chicago.

Cut Flowers ⚜ E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO, April 28.

Roses, Beauty, extra select		4 00
" " 30 in		3 00
" " 20 to 24 in	1 50@	2 00
" " 15 in		1 00
" " 12 in		75
" " Short		50
		Per 100
" Bride, Bridesmaid, select	5 00@	8 00
" " " medium	3 00@	5 00
" Chatenay, select	5 00@	8 00
" " medium	3 00@	5 00
" Golden Gate, Uncle John	5 00@	8 00
" Kate Moulton	3 00@	8 00
" Killarney, select	5 00@	8 00
" " medium	3 00@	5 00
" Mrs. Marshall Field, select	6 00@	8 00
" " " medium	4 00@	5 00
" Perle	5 00@	8 00
" Richmond extra select	6 00@	8 00
" " medium		5 00
Carnations	2 00@	4 00
Callas, per doz.	1 50@	2 00
Cattleyas, per doz.	6 00@	7 50
Daisies	1 50@	2 00
Gardenias, per doz		6 00
Irises	6 00@	8 00
Lilium Harrisii per doz.	1 50@	2 00
		15 00
Lily of the Valley	3 00@	4 00
Pansies	1 00@	1 50
Sweet Peas	60@	1 25
Tulips		3 00
Violets, single	50@	75
" double	50@	75
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	6 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		3 00
Galax, green, per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50-lb. case		5 00

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders ——given prompt attention.——

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

WEILAND & RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

The Benthey - Coatsworth Co.

35 Randolph St. **Wholesale Florists** CHICAGO.

New York.

MARKET OVERSTOCKED.

The accumulation of stock reached the proportions of a glut during the past week and prices of roses and carnations were completely demoralized. No 2 tea roses sold for 50 cents per 100 and considerable stock that might have graded higher was included. It was a very good carnation that brought three cents, the bulk of the stock being moved at from 50 cents to $2 per 100. Lily of the valley, which showed strength around Easter, is now down again and $2.50 per 100 is about the best price. Lilium longiflorum and callas are plentiful and very cheap. While a fair price can be obtained for the best gardenias, it is practically impossible to sell the small blooms. Orchids are scarce and consequently prices hold firm at 75 cents to $1 each for cattleyas.

April 26.—There is no improvement in the condition of the market and probably will not be until the weather gets warm enough to put a part of the stock out of business. Very fair carnations sold, April 24, for 25 cents per 100, that being a fair sample of the demoralization in prices of the lower grades of stock; but everything excepting orchids is cheap.

SUNDAY CLOSING.

An agreement has been circulated and generally signed by the wholesale dealers to hereafter close their stores all day Sunday. Heretofore the wholesale stores have been open on the forenoons of that day. But little shipped stock reaches this market on Sunday and doubtless the few growers that send it will cooperate to the extent of shipping so that it will reach here Saturday evening. To accommodate the retailers, it is proposed to keep open on Saturday till 10 p. m. There is much to be said in favor of Sunday closing, and no argument worthy of attention can be urged against it. Viewed as a mere business proposition, it may be pointed out that the New York Cut Flower Co. has always closed on Sunday and is enjoying continued prosperity. The amount of stock sold on Sunday is comparatively small. The retailers, with Sunday closing, would be more liberal in their Saturday buying and should have no ground for complaint if they can buy till 10 p. m. on that day. But over and above these considerations is the higher principle that men need Sunday rest; that time and again it has been demonstrated that more and better work can be done on six days and by resting the seventh.

NOTES.

Newspapers report that the steamship Kaiserin Augusta Victoria arrived at this port with not only mushrooms, lily of the valley and lettuce growing on the sun deck, but with a fine crop of strawberries flourishing nearby. This produce was grown in a greenhouse with big glass portholes on a slanting deck and was in charge of a gardener, a member of the ship's crew. The romancing reporter goes on to state that the Kaiserin will have an orchard of peaches and cherries on the next voyage.

Small red radishes in a fringe of parsley seem like a novel idea in button hole bouquets, but that is what we found Chas. H. Brown making up at his Columbus avenue store April 24. Several sprays of parsley were wired around each radish. They were to be worn at a swell smoker.

Karl Hartmann, a grower of Winfield, L. I., has invented an aeroplane, and he believes when it is finished, which will be in about two months, that he will successfully navigate the air.

Kessler Bros., the Twenty-eighth street plantsmen, say that the cold and wet weather is having an unfavorable effect on plant sales.

Funeral of the Late John Scott.

The funeral of the late John Scott was held from his late residence, 565 Midwood street, Flatbush, Brooklyn, N. Y., on the afternoon of April 23. Though the weather was very inclement, there was a great gathering of members of the organizations with which he had been connected, and of other friends and neighbors. It is doubtful if the funeral of any man connected with the florist business was ever attended by a more representative gathering of members of the craft and allied trades. A number were present from Philadelphia, among them being Robert Craig and Joseph Whillden.

Funeral services at the residence were conducted by Rev. G. Hamilton McClelland, pastor of the First United Presbyterian church of Brooklyn. At Evergreen cemetery, where interment took place, the Masonic fraternity conducted its funeral rites. The floral offerings were exceptionally numerous and beautiful. Several men who have spent their lives in this city and vicinity remarked that they had never before seen so many flowers at a funeral. Each of the organizations of which Mr. Scott had been a member sent handsome designs. Very noteworthy was the tribute of the New York and New Jersey Plant Growers' Association. This was a pall completely covering the casket, composed of red roses, smilax and lily of the valley. It was made by Herman Wipperman of Brooklyn. Another notable tribute was a large standing wreath composed of Killarney roses and heather. There were many other large wreathes, all made up with fine stock. Charles Grant, formerly with Small's, had charge of the floral arrangements at the family home.

Cleveland.

TRADE SLOW.

The trade since Easter has been rather slow. Growers are short in their crop of carnations and roses and will be for some time to come, the hail which accompanied the recent storm breaking much glass. The supply began to lengthen last Wednesday and Thursday and big sacrifices were made to dispose of stock, much of which went on the streets, but Friday's and Saturday's week end bargains again cleaned up the last of a good-sized glut. Prices were very low during the entire week. Smilax has been rather scarce since Easter; violets, though of fair quality, were rather scarce as was lily of the valley. The supply of roses, especially American Beauty, far exceeded the demand, choice Chatenay and Killarney going in job lots at very low prices. Pansies are coming in strong, but are not much in demand, quality fair. Daisies are selling well at fair prices. Easter lilies and callas are plentiful and a drug on the market, which goes to show that some of the growers did not get them out on time. Dagger and fancy ferns are becoming scarce. Sweet peas, especially lavenders and pink, are good sellers, and prices remain good, 40 cents to $1 per 100 for best grades. Forget-me-not always cleans up at 50 cents per bunch. Asparagus plumosus and A. Sprengeri are plentiful as is adiantum. The new crop of boxwood is exceptionally fine.

DESTRUCTIVE STORM.

A cloudburst, accompanied by hail, lightning, and a gale, struck the city shortly before noon April 21, and those who had greenhouses almost without exception suffered some losses. At the Ehrbar Floral Co., 3033 Lorain avenue, the wind picked up a hotbed sash and hurled it through the top of one of his greenhouses, breaking considerable glass. At Wilhelmy Bros., 2804 Lorain avenue, the big plate glass show window blew out. Isaac Kennedy, a rose grower at West Park, suffered perhaps the most serious loss. The wind carried away the entire roof of his boiler house and hurled it nearly 50 yards; a brick stack on this boiler house blew down and fell across his greenhouses, making a complete ruin. As he is unable to keep fires and his glass is all broken, his roses are exposed to the cold night air and frosts, and his loss will be severe. Mr. Kennedy is secretary of the Cleveland Florists' Exchange and is well known. Charles Bartels of North Olmstead reports that the hail which accompanied the storm ruined about $50 to $100 worth of carnations which he had set out. A. N. Coe, north Olmstead, reports considerable glass broken, and he was telephoning about one-half hour after the storm let up to rush glass to his place. Across the street from Kirchner's, Quincy street, the wind uprooted about 50 trees, and tumbled over many monuments in Woodland cemetery, but Mr. Kirchner's greenhouses escaped, though only about 200 feet from the worst wreck in town. Mrs. Ella Grant Wilson, florist, W. Fourteenth and Rowley avenue, had a brick stack blow over, which fell across one of her greenhouses, completely destroying it. Carl Wilson, a workman in the greenhouse, was caught under the debris and had to be dug out. He was seriously cut and bruised by the wreckage. W. A. Smith, Robinson avenue, reports a hotbed sash was hurled through one of his greenhouses and he lost considerable glass. C. B. Wilhelmy, with greenhouses on W. Twenty-fifth street, opposite Riverside cemetery, reports a big loss in glass. The storm in this end of the town was very severe.

NOTES.

F. Bartels, North Olmstead, is shipping some fine calendula and snapdragon, also daisies, which find a ready market on account of good quality.

Easter lilies and callas are plentiful and a drug on the market, which goes to show that some of the growers did not get them out on time.

G. G. Stehn, 2661 West Fourteenth street, has added a new delivery outfit as his increasing business demands it.

John Blechschmidt, Niles avenue, is going to build three new greenhouses, 25x300 feet.

F. M. Smith of Smith & Fetters, has been in Chicago and thereabouts the past week.

Visitors: B. Healey of the Wax Paper Co., New York.

C. F. B.

RUTHERFORD, N. J.—Wm. H. Lutton, of Jersey City, is building for the Julius Roehrs Co. three houses, 20x150 feet and one 15x75 feet. The Easter trade practically cleaned this firm out of all available stock, but there may yet be seen a fine stock of box and bay trees, just imported as well as a choice collection of orchids and foliage plants.

GRAND RAPIDS, MICH.—The Crescent Avenue Floral Co. reports a five per cent increase in its sales at Easter over those of last year at slightly lower prices. There was plenty of all classes of stock. Anything white in pot plants or flowers sold well, the darker colors not going so freely. The competition of the department stores was keenly felt.

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PERKINS & NELSON,

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Cor 6th Ave and 26th St. NEW YORK.

Wholesale Flower Markets

	NEW YORK. April 28,	Per 100
Roses.	Beauty, special	15 00@20 00
"	" fancy	12 00@15 00
"	" extra	8 00@10 00
"	" No 1	5 00@ 6 00
"	" No. 2	2 00@ 3 00
"	" No. 3	1 00
"	Bride, Bridesmaid, special.	5 00@ 6 00
	extra and fancy	4 00@ 5 00
	No. 1	1 00@ 2 00
	No. 2	50@ 1 00
"	Killarney special	6 00@ 8 00
	extra and fancy	4 00@ 6 00
"	Richmond	50@ 5 00
Carnations	fancy and special	3 00
"	common	25@ 1 00
Callas	per doz.	40@ 50
Cattleyas		50 00@70 00
Daisies		50@ 1 00
Gardenias	per doz.	1 00@ 4 00
Lilac, Cut	per bunch	50@ 75
Lilium Longiflorum		3 00@ 5 00
Lily of the Valley		2 00@ 2 50
Mignonette	per doz.	20@ 50
Narcissus		50@ 2 00
Snapdragons (Antirrhinum)		50@ 3 00
Stocks (Double white)	per doz	40@ 75
Sweet Peas	per doz bunches	20@ 75
Tulips		50@ 1 00
Violets		15@ 35
Asparagus	doz. bunches	1 50@ 2 50
Smilax		6 00@10 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

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Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florist

55 and 57 West 26th Street,

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HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

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And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets

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Killarney Fancy, selected. The best grown stock in the United States.
Must be seen to be appreciated.

Chrysanthemums
The novelty of the season, in yellow or pink, $1.25 per bunch.

American Beauty
Coming in splendid supply.
Also getting in nice lot of **Perles.**

Carnations in large supply and all choice varieties.
Also full supply of all other **Seasonable Cut Flowers.**
We have the goods and facilities for taking care of your cut flower trade.

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Phone Central 1496.
Private Exchange All Departments.

Our Ready Reference Catalogue of Florists', Growers' and Nurserymen's Supplies always gladly sent on request.

Philadelphia.

MARKET OVERSTOCKED.

The past week has seen the first real glut of the season; there seemed to be no end to the quantities of flowers coming in, while the demand fell off very rapidly until there was not enough doing to keep half the force employed. Roses were particularly plentiful, American Beauty even being hard to move, and the street men all have jars of good long ones to top off their stock. Carnations are seen in large lots in all the commission houses, these and roses taxing the storage facilities as they have not been pressed before this season. And so it is all along the line. Callas and Easter lilies are stacked high in the boxes. Sweet peas are also seen in quantity, but these sell as well as anything, in fact better than most flowers. Snapdragon is coming from a number of growers, long stems with large heads of bloom, in a regular harlequin of colors, fine for decorating. Spanish iris is in and sells as a novelty. Southern lilac in fair shape has made its appearance and sells well. Planting out has commenced; the bedding plantsmen say it is a little early, but they are encouraged with the way the season has opened.

THE PLANTSMEN.

It is astonishing to see the rapidity with which the houses get filled up after the depletion of the Easter trade. One would wonder where the stock comes from. W. K. Harris has house after house of Crimson Rambler rose, which of late years he has made a mid-season crop, getting it in from the growers as the Easter houses were emptied. Not a plant of this stock will be found here after Decoration day, the plants being all flowered and sold in six weeks. The Robert Craig Co. has the houses filled to the doors again with spring bedding stock, crotons and other interesting things. Several houses of Otaheite oranges are just opening their flowers and a better lot of plants was never seen in this city. They are very shapely and remarkably well set with buds; a hive of bees just outside the houses are busy all day long fertilizing the flowers, they having been found very useful in this respect. A splendid lot of cyclamens from imported seed, the best to be obtained in Europe, is seen here and tens of thousands of Begonia Gloire de Lorraine leaf cuttings. It is a great stock. Jacob Becker has a fine lot of pot roses grown hard and cool. He says the way to cure mildew on pot roses is to place them outside and they will soon lose all bad leaves and get vigorous and healthy.

The Joseph Heacock Co. is busy getting the large stock of kentias in shape for summer; half of the made-up plants are being put in tubs, which Mr. Heacock likes better than pots. They grow better with him and pack and carry better than do pots. A very large number of cattleyas are being put in pots and mounted on a large slat stage, some 4,000 pots, a fine, sturdy looking lot of plants that should help along when they get to flowering. Although the firm is adding to their stock all the time, it appears more difficult to fill orders than when only a few were grown.

NOTES.

Charles M. Keegan of 104 South Thirteenth street has made a proposition to his creditors to settle their bills for 25 cents on the dollar. His statement is: Liabilities, merchandise, $5,274.56, and $1,500 borrowed money, making $6,774.56 in all. Resources, bills receivable, $2,500, and stock and fixtures, $1,180, making a total of $3,680. His attorney advised instant acceptance, as if thrown into bankruptcy there would be nothing after expenses were paid. This condition of affairs came as a great surprise to the trade generally, as there were no suits pending or evidence of difficulties of this kind.

The trade here were much shocked by the news of the terrible and untimely death of John Scott of Brooklyn. He was always a welcome visitor to this city and expressions of profound sorrow for his wife and family were heard everywhere as the news sped swiftly about. Several from this city attended the funeral.

Snapdragons, sweet peas and American Beauty roses are the features of the Leo Niessen stock at the present time. Carnations galore are also seen, superb stock. A man with a large order who strays in here will meet with a warm reception and go away more than satisfied.

Wm. McKissick & Brothers are handling fine My Maryland and other roses. Sweet peas are also a specialty. Large quantities of flowers are being sold at low prices for special sales.

K.

Boston.

TRADE DULL.

Owing to bad weather and the natural depression of the season the past week was a fearfully dull period. Funeral work, which has been good for the past fortnight, dropped out of sight entirely and in the social line the end of the season seems to have come upon us when least expected. People are making their exits to the country and shore resorts several weeks earlier than usual. Vast shipments of all classes of stock are being received at the market daily, but the greater part brings poor prices and there is a weighty surplus. Prices have dropped steadily in all lines and have reached the lowest for the same season in many years. While shown in great quantities roses sadly lack quality. Outside of American Beauty and White Killarney there is little of really first grade goods obtainable. Both of these varieties are in rare form and hold their prices well. Some excellent carnations are available. Winsor has demonstrated its superiority over all other pink carnations. Violets are still on the market but in limited quantities only. Lily of the Valley is still short and the market is cared for by foreign growers, who are sending excellent goods. Cattleyas are again available after an absence of several weeks and have jumped right to the front of the exclusive list, easily securing $5 per dozen. Hydrangeas are the principal attractions in pot plants.

NOTES.

Arthur Capers, connected for some time past with Wm. Nicholson at Framingham, has branched out for himself, having leased the W. S. Wilson estate on Blossom street, Wellesley, for a period of five years. This plant, long famous for its rose products, will hereafter be devoted to carnations and yellow marguerites, with which flowers the new lessee has had much experience.

At a meeting of the creditors of F. H. Houghton, who has conducted a retail business since the dissolution of partnership of Houghton & Clark, it was voted to accept an assignment schedule and L. B. Woodward was appointed assignee. The business will be continued until a final settlement is adjusted to the benefit of the creditors.

James Harding, formerly grower for W. S. Shedd of Billerica, has secured the Swanson & Dillgren greenhouses in Lowell, which will be stocked with carnations and sweet peas. The Music Hall Market hereby adds another stockholder to its list and the products will be distributed from this center, which is rapidly expanding.

W. R. Morris of Wellesley is planning considerable extensions to his establishment, the new area to be devoted to roses.

Perry Green, Quincy, is showing something decidedly attractive in a splendid stock of ixias.

B.

Pittsburg.

TRADE SLOW.

Conditions still continue sluggish and the supply of stock of all kinds is more than equal to the demand. Prices are being chopped away down, American Beauty roses suffering the most; fine specials were seen selling at eight to ten cents. Carnations are also selling lower; they are being retailed by the street stands at 15 cents per dozen. Some very fine iris, snapdragon, and lily of the valley are seen in this market. String smilax is extremely scarce and is about the only stock that is bringing good figures.

NOTES.

J. B. Murdoch & Co. are cutting quantities of fine Enchantress carnations from their Van Emans place.

J. H. Myers of Altoona is making a specialty of chrysanthemum plants and is doing a good business.

The Pittsburgh Florists' Exchange is handling quantities of American Beauty roses.

Myers Bros., Altoona, are going to move into new quarters in a much better location.

J. M. Jones is hustling again, his enterprise being shrubbery business.

Nixon & Mandes, Greeks of the east end, have gone out of business.

M. F. Stafford is working with J. J. Fuchs of the south side.

Frank Faulk is very ill.

Visitors: Miss Kidd, Beaver; A. N. Pierson, Cromwell, Conn.; Sterns, Sefton Mfg. Co.; M. Shattls of Lyon & Co., New York; J. Ramsfelder of the Manhattan Ribbon Co.; Joiliff, of Schloss Bros.

J.

New Crop Dagger Ferns
$2.50 per 1000.
The Leo Niessen Co.
Philadelphia.

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Iris, Valley, Peas, Orchids, Beauties,
Roses, Primroses, Snapdragon, Violets.
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AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
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All Seasonable Flowers.

Baltimore.

UNUSUAL WEATHER CONDITIONS.

The season is marked by great variability and sudden and excessive changes of temperature. In one day the mercury fell from 88° to 42°, a variation extremely abnormal for a date so late in April. Unusually high winds have also prevailed, and the general weather tendencies have not been favorable for producing flowers. In the extremely warm days, however, great quantities were forced out and the market was almost overwhelmed, especially with carnations and roses. Trade has not been very active, the post-Easter weddings being practically over, and not much demand otherwise showing itself. Business as a rule continues to halt, there being hesitation and dullness in almost every line which is offered, immediately or approximately by the tariff uncertainties. It is hoped that this matter will be adjusted, so that, before the season of midsummer quietness, there will be some chance for a few weeks of really active trade. On Saturday the curbstone dealers were out in force and got rid of a great many carnations, the lovely day inspiring the passing throng, apparently, to purchase.

S. B.

NEW ORLEANS, LA.—The Metairie Ridge Nursery Co. is credited with the growth of some superb American Beauty roses with 9-foot stems that were finely illustrated in a local paper, showing that good stock can be grown around this city.

Wholesale Flower Markets

PHILADELPHIA, April 28	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, April 28.	Per 100
Roses, Beauty, specials	20 00@25 00
" " extras	8 00@12 00
" " No. 1	5 00@ 6 00
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 00@ 2 00
Lilium Longiflorum	10 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50@ 75
Tulips	2 00@ 4 00
Violets, double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, April 28.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—
Carnations, Roses, Beauties,
All Seasonable Flowers.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

SPRINGFIELD, MASS.—L. H. Butts reports a very satisfactory Easter trade and prospects good for a busy season.

WAPPINGERS FALLS, N. Y.—During the severe storm April 19 two large sash from the cold frames were lifted and thrown on the greenhouse smashing a lot of glass and narrowly missing Chas. Hicks who was working inside.

NEW ORLEANS, LA.—Abele Bros. report a 10 per cent increase in sales at Easter over those of last year. Cut flowers were in short supply but there were plenty of plants, especially palms and ferns. Lilies sold well in pots and some were cut from outdoors.

LOUISVILLE, KY.—Mrs. M. D. Reimers reports an increase in trade of 25 per cent over that of last year at similar prices. Good American Beauty roses were scarce, otherwise stock was quite equal to the demand. Choice baskets were called for; choice plants and orchids were also more in demand than ever before.

WENATCHEE, WASH.—Jay L. Holmes and others have filed on 25,000 inches of water in the Icicle river above Leavenworth. Mr. Holmes is a Butte man, and others interested are from Seattle. Included in his plan for the utilization of the water of the river is the making of a large greenhouse. Electricity will be developed to heat the greenhouse, and it is planned to have several acres under glass and thereby be able to furnish the markets of the northwest with vegetables. A large irrigation scheme will be developed later on when the plans are more mature.

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WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
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Write, Telephone or Telegraph. All orders given prompt attention.

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Successor to Chas. W. Reimers'
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Louisville, Ky.
JACOB SCHULZ,
550 So. Fourth Avenue.

San Francisco, Calif.
J. B. BOLAND
Successor to Sievers and Boland,
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Only the Best
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We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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IN HEART OF NEW YORK CITY
Phone 2270 38th St. 1294 Broadway
Our Motto—THE GOLDEN RULE.

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Best Quality on Shortest Notice
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Prompt and Careful Attention given to all Mail and Telegraph orders.

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Flowers or Design Work.
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.
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Rochester Phone 506. Long Dis. Bell Phone

Indianapolis, Ind.
Bertermann Bros. Co.
FLORISTS
.....241 Massachusetts Ave.

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Established in 1857.

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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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Mail, telegraph or telephone orders filled promptly in best style.

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Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long 'Phones

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GEO. M. KELLOGG ESTATE,
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KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

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A sign like this in your window will draw good business now.

Steamship Sailings.
Week Ending May 8.

May 4, Madonna, Naples-New York.
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May 4, Kaiser Wilhelm II, N. Y.-Bremen.
May 4, Kronprinzessin Cecilie, Bremen-N. Y.
May 4, Lituania, New York-Libau.
May 5, Calabria, Naples-New York.
May 5, Mauretania, New York-Liverpool.
May 5, Majestic, New York-Southampton.
May 5, Teutonic, Southampton-New York.
May 5, President Lincoln, N. Y.-Hamburg.
May 6, La Lorraine, New York-Havre.
May 6, Cleveland, Hamburg-New York.
May 6, Prinz Friedrich Wilhelm, N. Y.-Bre.
May 6, Main, Bremen-New York.
May 6, C. F. Tietgen, N. Y.-Copenhagen.
May 6, Oscar II, Copenhagen-New York.
May 7, Baltic, Liverpool-New York.
May 7, Empress of Ireland, St. John-Liv'p'l.
May 7, Empress of Britain, Liv'p'l-St. John.
May 8, Italia, New York-Naples.
May 8, Philadelphia, N. Y.-Southampton.
May 8, New York, Southampton-New York.
May 8, Caronia, New York-Liverpool.
May 8, Lusitania, Liverpool-New York.
May 8, La Savoie, Havre-New York.
May 8, Louisiane, New York-Havre.
May 8, La Gascogne, Havre-New York.
May 8, Zeeland, New York-Antwerp.
May 8, Lapland, Antwerp-New York.
May 8, Celtic, New York-Liverpool.
May 8, Canada, Montreal-Liverpool.
May 8, Rotterdam, Rotterdam-New York.
May 8, Barbarossa, New York-Genoa.
May 8, Prinzess Alice, Bremen-New York.
May 8, Martha Washington, N. Y.-Trieste.
May 8, Oceania, Trieste-New York.

Alexander McConnell,
571 Fifth Ave, Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
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Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Fred H. Weber,
FLORIST,
BOYLE and MARYLAND
Flowers delivered state or city on short notice. **ST. Louis, Mo.**

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Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

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L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in **WISCONSIN.**

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

AMHERST, MASS.—The seed house of Lafayette Goodell was destroyed by fire April 13.

SWEET PEAS are looking very good thus far, according to John Bodger, of Gardena, Calif.

THE Department of Agriculture has made a serious attack on the seed industry in the Youth's Companion of April 15.

SAGINAW, MICH.—Miss Isabel M. Swett, long time office manager here for W. H. Grenell, sails for Europe May 15 for a summer vacation.

LONG ISLAND CABBAGE.—J. M. Lupton says that so far as can be told at present the prospects are for a good medium crop, without much surplus or short deliveries.

CLEVELAND, O.—Chas. Jackett and Sidney Roesch, salesmen representing the Fredonia Seed Co., Fredonia, N. Y., engaged in placing box seeds in this city, were struck by a street car and badly injured April 20.

CAMBRIDGE, N. Y., April 26.—While it is time the work was going on, no planting for seed crops has been done as yet, cold winds from the north keeping the ground in such a cold condition that the seed is better in the warehouse.

WORCESTER, MASS.—A loss, estimated at $2,000, was caused by fire in the basement of the Ross Bros. Co.'s seed store. Escaping gas and the fumes from some 50 tons of fertilizer and lime in the basement rendered the work of the firemen very difficult and dangerous. The loss is covered by insurance.

TARIFF.—The latest news regarding tariff matters would indicate good prospects for a final adoption of specific schedules on both seeds and bulbs unless for political or other reasons opposition develops in or through some branch of the treasury department. It is believed that the committeemen in both houses of congress are convinced that the proposed new schedules are quite satisfactory to the whole of the horticultural trade, there being apparently no real opposition to them anywhere.

HENRY H. POOLE, of Kewanee, Ill., for 20 years office manager of the Albert Dickinson Seed Co. in Chicago, is dead of pneumonia.

APPLICATION has been made to restore to the basis of half rates the transcontinental tariff on unsold seeds returned, which reduced rates were abolished January 1 last.

FREMONT, NEB., April 23.—Seedsmen are very busy with a large force placing contracts and shipping stock seed, having a large percentage of the different varieties grown pretty well covered. There are some varieties of cucumber, however, and flint and sweet corn which are proving quite difficult to manipulate, but it is expected that a full acreage will be placed within the next two or three weeks.

C. R. Root.
Manager Barteldes Seed Co.'s Business, Denver.

CHICAGO.—Contract prices on the board of trade April 28 for grass seed were noted as follows: Prime timothy, $3.80 (nominal), white clover, 16.—Miss Sadie E. Northrup, daughter of Jesse E. Northrup, Minneapolis, Minn., has been in the city with friends this week on her way home from Boston, Mass.—John Bodger and wife, Gardena, Calif., registered at the Annex, en route to Europe.—K. Gunderstrup is making a trip to Denmark.

PHILADELPHIA, PA.—Seed potatoes in this section are practically cleaned up and dealers report that they could easily have disposed of thousands of barrels additional.

THE United States consul at Hanover, Germany, reports that according to the views of the German exporters of canary birds, the American people expend annually $7,500,000 for canary bird feed alone. He estimates that there are five million caged birds in the United States.

HOLLAND BULBS.—Prominent growers consider the outlook for the Holland bulb crop very fair as late as April 13. In the vicinity of Haarlem, the splendid spring weather brought out all the early varieties of hyacinths on Easter Sunday and most of the Duc Van Thol tulips. The crocuses were over at date of writing.

NEW YORK.—Ernst Benary, Jr., of Erfurt, Germany, is at the Hoffman house.—This was Manager Scott's busy week at Vaughan's Seed Store, moving from 14 Barclay street to 25 Barclay, corner of Church street.—Samuel Burnett, of Burnett Bros., who has been seriously ill, is rapidly recovering.—The Peter Henderson Co.'s store continues to attract crowds of customers, notwithstanding the building operations going on around it.

California Seed Crops.

Livermore, Calif., April 16.—Seed crops generally are looking fine. We are looking for a few spring showers to help them along. While the rainfall during the past winter was very heavy, the weather has now turned hot and dry and crops that were nearly drowned out are responding nicely to cultivation.—D.

Michigan Peas and Beans.

Farmers have been getting such good prices for their crops that they are not likely to grow any peas and beans of the garden varieties on their own account for the reason that the commercial product of both these crops pays them better from a farmer's standpoint, and they are the closest to the proposition.

The Barteldes Seed Co., Denver, Colo.

The Barteldes Seed Co. of Denver, Colo., has purchased the lot on which its poultry department is situated, thus removing the last obstacle to the erection of a large five-story building which the company contemplates as soon as its rush season is over. The building now used as headquarters will be used as a warehouse when the new building is erected. The present building is only five years old and no one thought at the time of its erection that the business would outgrow it so soon. It is up-to-date in every particular and capable of withstanding a load of 1,500 pounds on every foot of floor and wall space. Every facility is there to handle grain and seeds; the railroad cars run to the door and are "tapped" and the grain run through chutes and elevators wherever it is wanted without being touched by hand. There are 72 employes in the building, and as giving an idea of the scope of the business, one day recently orders were filled for Sweden, Chile, Argentine and Peru, to say nothing of a heavy tonnage going west of the Mississippi river. The trade in florists' and poultry supplies is very large.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS, MICH

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

BUY CALIFORNIA Asparagus Plumosus Nanus Seed.

You can get the best seed grown right here in California. It is fresh, large, clean and full of vitality. The best and biggest dealers are our regular customers and their orders are increasing each year. If you are doubtful, just write me and I'll tell you the names of the buyers, some of them perhaps you are personally acquainted with.

Seed will be sold by count, with the usual guarantee as to germination, and I will again sell at my usual low, cash-with-order prices as per following list,

1,000 seeds...	$ 2.00	13,000 seeds...	$20.00
6,000 seeds...	10.00	25,000 seeds...	35.00
50,000 seeds...	62.50	100,000 seeds	100.00

If you send me your order I know you will be pleased with the results.

F. GILMAN TAYLOR,
630 H.W. Hellman Bldg., LOS ANGELES, CAL.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

The Everett B. Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz. 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds
April is the month to sow this seed.

ASPARAGUS PLUMOSUS NANUS,

Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,
NEW YORK. CHICAGO.
Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. **Varela's Improved Onion Seeds** will give best satisfaction to growers. Insist on getting them It will pay you.

Federico C. Varela, Tenerife, Canary Islands

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors	⅛-oz. 60c; oz. $4.00
Pure white	⅛-oz. 75c; oz. 5.00

H. E. FISKE SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

IF YOU SAW IT IN
THE FLORIST
SAY SO IN YOUR NEXT ORDER.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

Transplanting.

Much of the success in gardening nowadays depends upon successful transplanting. By transplanting we are enabled to force the season, either early or late, double crop the land, and, most important of all, secure accurate spacing of plants in order that we may produce maximum crops. It follows then that he who is a thorough plantsman has an advantage over his less skilful competitor. The first transplanting, to produce good plants, is generally done in greenhouses, hotbeds or cold frames. Here it is best to employ screened earth as it facilitates work greatly. A fundamental rule is that earth must be moist before planting—if not so, better wait, water and work over until evenly moist all through. Seedlings dibbled into dry earth never do so well, no matter how soon they are watered after planting. Sometimes when using beds a second time the earth is dry below, which is especially harmful.

There are several methods in common use—dibbling out singly, dibbling out bunches, and heeling in. Each has its proper place. To produce the best plants, the single dibbling is of course best. But often we have neither the time, nor the space, nor the help, and something must be done with the seedlings, when dibbling out in small bunches, say three to five plants each, is a great help. Some plants can be heeled in very successfully. We always heel in celery plants. By heeling in we mean to dig shallow furrows across the bed, and then lay the little plants in all evenly spaced and then cover with earth and press firmly. It is a very good method for inexperienced help. The proper time to transplant seedlings is when the character leaf appears, but often we cannot do as we would like to and must resort to all kinds of methods. An excellent way to stop seedlings from further growth is to root prune them. Here is where the row-seeding is so superior to broadcasting. Supposing seedlings are in rows 2½ or three inches apart—it is very easy to run a common pruning knife under the rows so as to cut the roots half an inch under ground. It will not only stop them, but at the same time will prepare them for the move by forcing them to produce new roots. This is an excellent treatment for tomato plants. We have often produced such root pruned seedlings that were superior to common transplanted stock.

In the field a great deal depends upon the land, the season, the weather, condition of plants, and the help at hand. We use various tools, from the plow to the dibble. Sometimes a spade is the best tool, using it as do strawberry growers—one man thrusts the spade straight down, opens a V-shaped hole, while another inserts the plant the moment the spade is withdrawn. To tighten the roots run the spade in a few inches away from the plant and force the earth against the roots. In hard land, a subsoil plow should precede this spade method—this plow will throw no furrow—it simply cuts a slot and loosens the ground. Where the ground has a dry dust mulch we like to trowel plants in. This enables the operator to scrape away the dry earth so none will touch the roots. Trowel planting is hard work, but is superior to most other methods.

In mellow, moist soils and suitable weather, a common pointed stick, say a piece of broom handle, makes a good tool. The operator should be instructed to tighten plants well and deeply, so roots are not left hanging in a hollow. This is the great defect of dibble planting. Where land is too hard for dibble work we sometimes employ a spud, a strong handle, such as a fork-handle shod with a flattened point, such as a piece of 1¼-inch pipe flattened and welded together; at the proper depth for planting bore a hole and drive in a ⅝-inch bolt for a foot-rest, which will also be a depth gauge.

For pot plants above 2-foot rows we prefer to open a furrow with a horse tool, and close same way; for narrower rows, use a wheel hoe. A single wheel hoe, with one cultivator tooth and the drill marker, makes a grand tool to help the planter. We employ this to open narrow rows for setting out small plants like onions, beets, lettuce, etc. Sod plants, such as melons, cucumbers, sweet corn, we simply set down flat on top of ground and either plow to or hoe up by hand. Plants should never be dug dry. Water thoroughly some time before digging. Do not pull out, but lift with fork or spade, to get the roots. Sprinkle after digging. Protect from sun and wind. When planting, tighten earth around roots thoroughly. If to be watered, leave a depression near roots for water; hoe after watering and cultivate at once.

MARKETMAN.

Onion Growing in Colorado.

The onion thrives best in a cool, moist soil which is easily kept in a mellow condition. Such soils are confined mostly to river bottoms, and they contain more vegetable matter and sand than is commonly found in mesa and upland soils. Large amounts of decayed vegetable matter seems to be essential to the best development of this crop. Heavy soils are not suitable for onion growing, for the reason that it is difficult to make a good seed bed, and the surface is likely to bake and crack, much to the injury of the young plants. It is difficult to get a uniform growth of onions on such soils, says W. Paddock in News Notes of Colorado Agricultural College, consequently a large per cent of scullions usually results.

The land for onions should be heavily fertilized with well-rotted stable manure, and plowed in the fall or very early in the spring; it is then put in the very best condition possible for planting. The onion seed should be sown early, much of it being planted in March, and all should be in the ground by April 10. Early seeding is necessary, for the reason that the bulbs should make most of their growth before hot weather comes on. The seed is sown about one inch deep with hand drills, using from 3½ to four pounds per acre.

The distance between the rows depends upon the system of irrigation to be followed. If the field is to be flooded, the rows are usually made 12 to 14 inches apart, but if the furrow system is adopted, the ground is plowed out in ridges about 30 inches apart and then flattened to about nine inches on top. Two rows, three inches apart, are then planted on each ridge, the furrows between the double rows being used for irrigation and cultivation. Most growers try to plant the seed so that the plants will be 1½ inches apart, so as to avoid thinning.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

For Transplanting.

	1000
Cabbage, Wakefield and Succession	$1 50
Eggplant, N. Y. Improved and Black Beauty 40c per 100:	3 00
Pepper, Bull Nose, Ruby King and Sweet Mountain 40c per 100	3 00
Chinese Giant and Cayenne...50 c per 100	
Tomato, Earliana, Chalk's Jewell, and Early June Pink 30c per 100	2 00
Stone, Favorite and Paragon, small plants	1 00
Celery, Small for transplanting White Plume and Golden Self Blanching	1 00

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 39 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

Cultivation and weeding are begun by hand as soon as the plants appear above the ground. The hand wheel hoe is used, but the thinning and some of the weeding must be done by hand. If good onion soil has been selected, but little irrigation will be needed in the fore part of the season. In the heavier soils, where the water is run in furrows between double rows, the irrigation is begun earlier, and every effort is exerted to keep the ground moist.

Harvesting is begun by September 15 and the crop is usually all out of the field by the middle of October. The bulbs are pulled by hand and thrown into windrows. After they have become completely cured, the tops are removed, and the onions are sorted and sacked. Topping is done by cutting off the tops about half an inch above the bulb, taking care to make a smooth cut so as not to injure the outer coverings. The principal markets for Colorado onions are in Texas, though some are sent as far east as St. Louis.

A great many varieties have been tested, and the so-called new onion culture has been attempted. The numbers have been gradually narrowed down to one, the Yellow Globe Danvers. This variety seems well adapted to our conditions of soil and climate. Good seed is requisite to success. Home-grown seed from selected bulbs has given by far the best results. The cost of growing an onion crop may be estimated at about $60 an acre.

Prices of Indoor Fruits and Vegetables.

The prices of indoor fruits and vegetables at leading points April 24 were as follows: New York, cucumbers, 40 to 75 cents per dozen; lettuce, 75 cents to $1.25 per strap; mushrooms, 20 to 55 cents per pound; mint, 40 to 50 cents per dozen bunches; radishes, $1 to $1.75 per 100 bunches; rhubarb, $2 to $5 per 100 bunches; tomatoes, 10 to 20 cents per pound; grapes, 60 cents per pound. Chicago, cucumbers, $1.25 to $2 per dozen; head lettuce, $1.50 to $2.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 40 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City, cucumbers, $1 to $1.50 per dozen.

NEW CANNA
WAWA
A new shade of beautiful soft pink splendid form
$1.50 each, $12.00 per dozen.
Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.
—Send for List.—
The Conard & Jones Co.
WEST GROVE, PA.

CANNAS
For stock dry roots, $1 75 per 100: Italia, Cleveland, Austria, Egandale, Marlborough, America, Shenandoah Penna Black Beauty Kate Gray, mixed with other good varieties
Asparagus Sprengeri, 2-in., $1 75; 3-in., $3 50; 4-in. $5 50 per 100.
English Ivy 2-in. $2 00; R. C. 75c per 100.
J. H. DANN & SONS, Westfield, N. Y.

Fischer's Grand Freesia
PURITY
The Unequalled, White Decorative Freesia :: ::
Send in your orders early if you want to secure the large sizes I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have more than other years My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed avoiding all danger of mixture, as Purity does not come true from seed. Dealers getting their stock from me will always be sure of getting the purest stock.
For sale by the Leading Seedsmen :: :: :: ::
RUDOLPH FISCHER,
San Gabriel, R. F. D., Calif.

FLOWER SEEDS.

		Pkt
Begonia Dichroa,	Ruby	$ .50
Stocks,	Cut and Come Again, asst	.50
	Early Brompton or Nice, asst	.50
Salvia,	Bonfire, Farinacea	.25
	Triumph, Zurich	.50
Petunia,	large flowering, fringed and stained	.50
	Howard's Star, Inimitable	.25
Lobelia,	Lugdenensis, Hamburgia	.25
	Barnard's Perpetual, White Lady	.25
Myosotis,	Stricta, 3 colors	.20
	Robusta Grandiflora, 2 colors	.20
Poppy,	Alpine, fine for pots	15

All other standard varieties in fresh stocks. Catalogue on application
Fresh Tobacco Stems, $1.50 per 300 lbs.
W. C. BECKERT. North Side, Pittsburg, P

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-Presdent; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June, 1909

WELLINGTON, KANS.—Chas. Worden of the Worden Nursery will build a new tree storage house this season 80x120 feet.

THE first number of the Ohio Forester has reached us. This little publication is the official organ of the Ohio State Forestry Society.

WEST CHESTER, PA.—The nurseries in this section report the season just closing as one of the best, more stock having been shipped than for many years.

NICHOLS, MO.—L. B. Baxter, a nurseryman, died April 21 of pneumonia after a brief illness. He was about 48 years of age and leaves a wife and sister.

WILKESBARRE, PA.—The county commissioners recently awarded eight contracts for shrubbery and plants to aid in Warren H. Manning's decorative scheme, the total cost being about $440.

FREMONT, NEB.—Local nursery shipments are going north now, especially to points in the Dakotas and Minnesota. The movement south, which has been very active, has practically ceased.

ARBOR DAY in Chicago was celebrated April 23, by the planting of many trees by the school children in various parts of the city. The reading of Gov. Deneen's Arbor day proclamation was a feature.

BOSTIC, N. C.—All of the stock planted early at the Valdesian Nurseries is looking well, although the weather has been a little too dry for the last few weeks. The prospects for a fine crop of small fruits in this section are very good.

ACCORDING to a recent decision by the board of general appraisers orange and other fruit trees imported for cultivation by Texas fruit growers are allowed to enter this country free of duty. The trees in question had been classified as "nursery or greenhouse stock" instead of "fruit plants for cultivation."

ALL nurserymen should see that their local newspapers make use of the excellent and seasonable articles issued regularly by the National Council of Horticulture. These articles, written by competent horticulturists are reliable and valuable. Newspapers may secure this press service free on application to Jas. H. Burdett, 17 W. 104th place, Chicago.

HARTFORD, CONN.—Alexander Cumming, Jr., who was until recently superintendent of maintenance for the city parks, here, has gone to Seattle, Wash. Mr. Cumming's resignation was looked on with regret by all connected and was considered a great weakening of the force. Mr. Cumming will probably be connected with the Seattle exposition. His successor here is Frank D. Sargeant.

Hedge Plants.

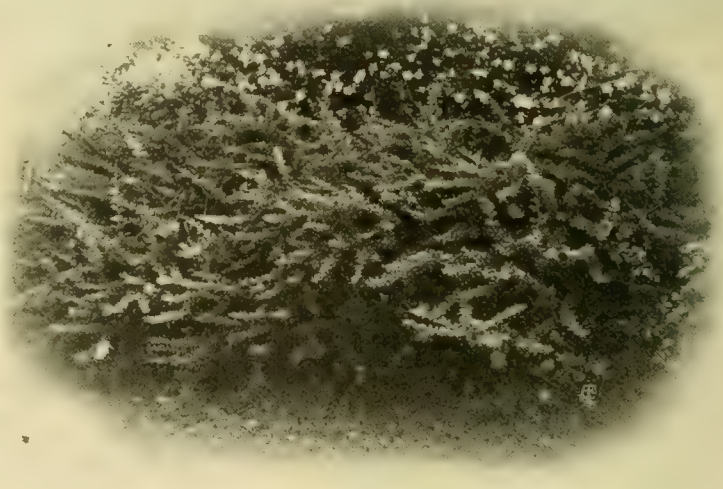
There seems to be an increasing demand for hedges. Whether this is due to more formal work in gardening or to a laudable desire to substitute living fences for wood and stone, I do not know; but we have received an unusual number of inquiries, during the past year, in regard to hedge plants. To meet this demand the nurseries have growing California privet by the million. This plant has many good points. It is very easily and cheaply propagated, and so quickly grown to planting size that it can be sold at a very low price. It takes naturally a good form and stands the shears well. It is nearly evergreen, and it is comparatively free from attacks of insects and fungi. But, notwithstanding all these advantages, the fact is that it is not reliably hardy in this latitude. There is, fortunately, an abundance of other shrubs well suited for the purpose, and even where the privet is hardy we would plead for greater variety. It is possible to get too much of a good thing.

In looking over the crop of catalogues of the current season, I noted a classification and list of hedge plants in that of the Wm. H. Moon Co. which struck me as being ingenious and quite suggestive, and I have taken the liberty to quote from it.

(1) Ordinary hedges—Such as property boundaries. Usually of medium height and dense thick habit.

(2) Defensive hedges—Used as fences to keep off trespassers and to turn stock. Plants with thorns usually preferred.

(3) Screens—Used to hide objectionable objects; clothes yards, kitchen doors, etc.



BERBERIS THUNBERGII.
One of the Hardiest and Finest Dwarf Hedge Plants.

(4) Wind-breaks—Used to shut out wind from other places. Evergreens almost always used for this purpose.

(5) Flowering hedges—Almost all flowering shrubs are suited for this purpose.

(6) Edging—Low hedges to edge walks, to border cemetery lots and similar places.

In the list of plants that follows, the different varieties are preceded by numerals that indicate the classification that they may be suitably used in. For instance, all varieties preceded by the numeral I are good plants for ordinary hedges. Some varieties are useful under several classifications.

EVERGREENS.

5, 6 Azalea amœna. I, 6 Buxus sempervirens. 6 Buxus suffruticosa. 6 Ilex crenata. I, 3, 4 Picea excelsa. 4 Pinus Austriaca. 4 Pinus Strobus. 4 Pinus sylvestris. I, 3 Retinospora plumosa. I, 3 Retinospora squarrosa. I, 3, 4 Thuya occidentalis. I, 6 Thuya Geo. Peabody. 6 Thuya globosa. 6 Tsuga Canadensis.

DECIDUOUS SHRUBS.

I, 2 Berberis Thunbergii. I, 2 Berberis vulgaris. I, 2 Carpinus Americana. I, 2 Carpinus Betula. 2 Cratægus coccinea. 2 Cratægus crus-galli. 3, 5 deutzia. I, 2, 3, 4 Fagus sylvatica. I, 3, 5 hibiscus (althaea) in variety. 5 Hydrangea paniculata grandiflora. I, 3 Ligustrum Ibota. I Ligustrum Regelianum. I, 2, 3, 6 Ligustrum ovalifolium. 2 Rhamnus catharticus. 5 Rosa rugosa. 5 spiraea, in variety. 3, 5 syringa in variety. 5 Virburnum plicatum.

The above lists embrace quite a variety of plants adapted to a wide range of climate. To make the lists complete for the United States would require the addition of many species and it contains several that can hardly be recommended for the northern tier of states. It was of course made to apply to the stock listed in this particular catalogue. I do not know that I would feel like criticising any of the evergreens named, except as to their hardiness, and would add but a few. The yew makes an admirable hedge and Berberis aquifolium should also be included. If one were preparing a list to include the southern states the list would include many other species.

In the deciduous list a great many might be added, as explained by the author of the catalogue above quoted. Probably Cratægus oxycantha should be added in classes I, 2 and 5; Hydrangea arborescens grandiflora in class 5; Japan quince in classes I, 5; and the locust and the Osage orange in classes 2, 5. Many of the roses which are suitable for hedge use should probably be included in other classes as well as in 5. Some of them make good protective hedges or fences, some make excellent screens and some would drop into class 6 nicely.

One of the most beautiful hedges I ever saw was of our native hemlock, and it is a good plant in sheltered positions. Our white pine makes a most at-

W. van Kleef & Sons, Wholesale Growers of Nursery Stock .... BOSKOOP (Holland)

Beg to announce to the trade that their **W. van Kleef, Jr.,** is again in America calling on the trade.

Address all correspondence during April and May care of **Messrs. Maltus & Ware, 14 Stone St., New York**

We have on hand a large consignment of

Japanese Bamboo Canes

Fine, Strong Quality.

NATURAL.	Per 1000
6 ft., heavy, original bundle of 2,500	$4 25
6 ft., medium, " " 2,500	3 50
5-6 ft., pencil thickness, original bundle of 5,000	3 25
4-5 ft., pencil thickness, original bnndle of 5,000	2 75
3 ft., pencil thickness, original bundle of 5 000	2 25

GREEN COLORED.	Per 1000
1½ ft., original bundle of 4,000	$1 20
2 ft., " " " 4 000	1 85
2½ ft., " " " 4.000	3 00
3 ft., " " " 4.000	3 50
3½ ft., " " " 4,000	3 75

Sold in original bundles only. Samples on application.

Cycas Stems.

Fine straight stems, in case lots of 300 lbs., assorted; 4 10 lbs., ½ 4 lbs., ½ 2 lbs., 2 10 lbs. ..... $19 50 per case

Kudzu Vine Roots.

Strong, heavy quality, 1000 at $50 00
" " " 100 at 7 50

The Yokohama Nursery Co.,

31 Barclay St., NEW YORK CITY.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2 ft.	$1 50	$2 75	3½ ft.	$3 00	$ 5 50
2½ ft.	2 00	3 75	4 ft.	4 00	7 00
3 ft.	2 50	4 50	5 ft.	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
18-22 in.	20-22 in	$3 00	$5 50	18-22 in.	30-32 in	$5 50	$10 00
22-24 in.	22-24 in	4 50	8 00	22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high, ... Each, 40c; per doz., $4 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

84-86 Randolph St., CHICAGO. **25 Barclay St., NEW YORK.**

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Roses** Dwarf, Climbing, Tree and Ramblers.

CLEMATIS, and all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige, Mme. Plantier, Alfred Colomb, Perle des Blanches, Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.

Tausendschon, the great new climber $20.00 per 100
Crimson Baby Rambler ..... 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.
CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....
PAINESVILLE, OHIO.

Hardy Perennials

Shasta Daisies, Gaillardia, Columbine, Delphinium, Sweet William, Bleeding Heart, Foxglove, Oriental Poppies, Phlox, Pinks, Yucca, etc.

In small or large plants.

Are you ready when your customers ask for them? We can supply you. Send for prices.

MOSBAEK GREENHOUSE CO.
ONARGA, ILL.

American Everblooming Hydrangeas

Strong, field-grown plants, 15 inches and up, $2.50 per doz., $15.00 per 100; the same, 10 to 14 inches, $1.50 per doz., $10.00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000; B. Thunbergii Seedlings, 5 to 7 inches, $1.50 per 100, $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3 ft. cheap.

THE E. Y. TEAS CO., Centerville, Ind.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

tractive hedge and stands the shears remarkably well. In many places the mulberry is used to advantage. Many hedges fail not because of the character of the material used but because of the lack of proper care in planting and during the earlier years of their growth. Hedges which are intended to be maintained in a symmetrical form must be carefully pruned and shaped from the beginning and all need clean cultivation and attention until they get full possession of the ground. It is well to bear in mind that summer pruning of hedges is, with many kinds, quite as important as winter pruning, and sometimes summer pruning is all that is necessary.

Possibly another class might be added to those mentioned above, embracing those plants which by reason of their showy and persistent fruit are attractive after the leaves have fallen and amid the snows of winter. First in this class might stand Berberis Thunbergii, closely followed by some of the single roses, the Indian currant, deciduous holly, euonymus, etc. For winter hedges, too, plants having highly colored bark like

Julius Roehrs Co.'s Specialties

BAY TREES AND BOX TREES, CHOICE EVERGREENS.

Special Offer on **Blue Spruce, Palms, Stove Plants, Crotons, Hydrangeas,** all sizes.

Begonia Gloire de Lorraine, from leaf cuttings.

New importations of **Cattleya Trianae, C. Labiata, C. Gigas, Vanda Coerulea.**

Dendrobium Wardianum, D. Formosum.

EVERYTHING IN FIRST-CLASS CONDITION.

Write us and we will cheerfully give prices, with lists of any of the above.

JULIUS ROEHRS CO., Rutherford, New Jersey

the dogwoods and willows give most cheerful effects. If there were more good examples of hedges to be seen I believe the demand for hedge material would be very greatly increased.

JOHN F. COWELL.

Protects Nursery Stock.

Albany, N. Y., April 21.—Gov. Hughes has signed Senator Raines' bill, appropriating $25,000 for a more stringent supervision by the state agricultural department to prevent the bringing of diseased nursery stock into this state from other states, and for the prevention and extirpation of diseases and insect pests infecting all trees, shrubs, plants and vines. The bill provides for compensation to owners of property destroyed at a rate to be agreed upon between the commissioner of agriculture and the owner or by arbitration, and for the destruction not only of infected stock, but of boxes, retainers and packing material which may have contained such stock.

Denver to Have an Apple Show.

On April 21 there convened in Denver a delegation of men representing the chamber of commerce and organized an association to conduct a national apple show which will be known as the Colorado national apple exposition. It will be held in the large auditorium which is famed for holding the Democratic convention last year, having a seating capacity of 12,000. There will be $25,000 offered in premiums and exhibits will be asked for from all parts of the United States. It will be a hot competitor of the recent apple show held in Spokane. Suitable arrangements are being provided to make this a grand affair. The date in all probability will be from Dec. 6 to 11, anticipating that the Western Fruit Jobbers' Association will convene in Denver at the same time. The officers elected are: C. R. Root of the Barteldes Seed Co., president; C. L. Oliver, acting secretary of the Colorado Horticultural Society, secretary; W. F. R. Mills, treasurer. Mr. Mills has long been recognized as a public spirited man, being at present secretary of the chamber of commerce and the Denver convention league. There will be an executive committee of seven to be chosen from the leading horticulturists of the state.

Guaranteed just as represented. Reference: National State Bank, Camden, N. J.

Peacock's Jack Rose Dahlia

is not only the best crimson, (color of the "Jack" Rose Bud)

But the Best all around Commercial cut flower Dahlia on earth

Strong plants, 50c each, $5.00 per doz., $35.00 per 100.

Send for new illustrated catalogue of **New Creations** in **Dahlias, New Decorative, Show, Fancy, Art** or **Peony-Flowered** and **New Century Dahlias.** With a superb collection of **New Cactus Dahlias.**

PEACOCK DAHLIA FARMS, Williamstown Junc., N. J.

DETROIT, MICH.—Robt. Rahaley, manager of the Michigan Cut Flower Exchange, and Miss Helen Murphy were married during the week of April 24 and are spending their honeymoon in Chicago, according to a card signed "Some of the Detroit Florists." May all good fortune attend the happy couple.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

HEACOCK'S PALMS

Kentia Belmoreana

7-in. pots, 32 to 34-in. high .....$2 50 each
7-in. pots, 36 to 38-in. high..... 3 00 each
9-in. tubs, 42 to 48-in. high..... 5 00 each

Made-up Kentia Forsterianas.

9-in. tubs, 42 to 48-in. high ....$5 00 each
12-in. tubs, 4 plants in tub, 6-ft. high ..15 00 each

JOSEPH HEACOCK CO., WYNCOTE, PA.

WARREN, O.—J. H. Brown & Son have rented the Gaskill place.

LINCOLN, NEB.—Plans for a new greenhouse on the city campus are being considered.

Dreer's Novelties in Hardy Perennials

New or Little Known Varieties Worthy of Special Attention.

LUPINUS POLYPHYLLUS ROSEUS.

Anchusa Italica Dropmore Variety. A grand improvement on the type, with intense deep blue flowers, $2.00 per doz.; $15.00 per 100.

Anthericum Liliastrum Giganteum. A giant form of the N. Bruno Lily with very large white flowers, $2.50 per doz.; $20.00 per 100.

Aquilegia Helenæ. One of the best of the Columbines, large pretty blue flowers, with large white corolla, 85 cts. per doz.; $6.00 per 100.

Campanula Persicifolia Humosa. A very large semi-double form of the peach leaved Campanula, flowers of a pleasing shade of blue, $1.50 per doz.; $10.00 per 100.

Delphinium Gold Medal Hybrids. The finest strain ever offered in mixed varieties, $1.25 per doz.; $8.00 per 100.

Delphinium Belladonna. The freest flowering of all Delphiniums, it is never out of bloom, beautiful turquoise blue, $2.00 per doz; $15.00 per 100.

Funkia Robusta Elegans Variegata. A decided improvement on all variegated forms, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Gem. A new variety that originated on our trial grounds. Flowers old gold, suffused with bright terra cotta, changing as they mature to a wallflower-red, $1.50 per doz.; $10.00 per 100.

Helenium Riverton Beauty. Another variety which originated with us, quite distinct in color, which is lemon-yellow, with a large disc of purplish-black, $1.50 per doz.; $10.00 per 100.

Helianthus Sparsifolius. The most desirable of all the hardy sunflowers, especially valuable as a cut flower, 85 cts. per doz.; $6.00 per 100.

Four Valuable Hemerocallis. The four varieties here offered are great improvements upon the well-known Yellow Day Lilies.

Aurantiaca. Very large, bright, orange-yellow, sweet-scented flowers, 15 cts. each; $1.50 per doz.

Aurantiaca Major. Large trumpet-shaped, sweet-scented, deep orange flowers. Requires protection, 35 cts. each; $3.50 per doz.

Florham. Large golden-yellow sweet-scented flowers; very free flowering, 15 cts. each; $1.50 per doz.; $10.00 per 100.

Gold Dust. Large golden-yellow flowers, 15 cts. each; $1.50 per doz.

Incarvillea Delavayi. Popularly known as the hardy Gloxinia; extra strong roots. $2.00 per doz.; $15.00 per 100.

Iris Pallida Dalmatica Folia Variegata. A strikingly handsome variegated leaved form of this beautiful blue Iris, 35 cts. each; $3.50 per doz.

Gypsophila Paniculata Flore Plena. This is a perfect gem and as a summer cut-flower invaluable. We have a large stock of strong roots to offer this season, $2.00 per doz.; $15.00 per 100.

Lupinus Polyphyllus Roseus. This is a most attractive rosy pink form of Lupinus, producing gigantic spikes of flowers, $2.00 per doz.; $15.00 per 100.

Pentstemon Gentianoides Sensation. Gloxinia-like flowers in a variety of bright colors, including rose, cherry, crimson, purple, lilac, etc. For bedding they rival Phloxes, Petunias, etc. Not quite hardy, 3-inch pots, $1.00 per doz.; $7.00 per 100.

Primula Cortusoides Sieboldi. These are not so well known as they deserve; they are of free, vigorous growth, and can be flowered in pots in early spring, and respond quickly to forcing when placed in a temperature of 50 degrees, forming pretty pot plants in a short time, making excellent window plants, which meet with ready sale when in bloom.

We offer six distinct varieties, from pure white to the deepest rose in color, $1.50 per doz.; $10.00 per 100.

Rudbeckia Rays of Gold. In this new variety we have a refined form of the popular "Golden Glow," with which it is identical in color, habit, etc., but the flowers have narrower petals, full to the center, forming a perfect ball of gold. $1.50 per doz.; $10.00 per 100.

Stokesia Cyanea Alba. A white form of the popular blue Stokesia, equally valuable and a desirable addition; strong plants, $1.25 per doz.; $8.00 per 100.

Choice New Trollius. (New Globe Flowers.) The five varieties listed below are decided improvements on all sorts heretofore offered; of exceptional large size and good rich colors.

Gotterfunke. Large open orange-yellow flowers.

Helios. Very free flowering, pure yellow, on strong branched stems.

Leuchtkugel. One of the finest deep orange reds.

Lichtball. Large, globular orange-yellow flowers on stiff stems.

Salamander. Soft orange-colored flowers of globular form.

35 cts. each; $3.50 per doz. The set of 5 for $1.50.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

OUR PASTIMES.

At New York.

Bowling, April 26.

J. Roehrs	104	113	...	...
Faulkner	106	114	115	134
Barry	143	148	137	126
Manda	209	152	156	137

At Chicago.

The regular weekly bowling matches were rolled at Benzinger's alleys, 118 E. Monroe street, Friday evening, April 23, as follows:

A. Zech	155	190	186
F. Pasternick	139	198	164
F. Kraus	106	90	104
E. Farley	136	115	159
Wm. Graff	131	115	152
	667	708	765
J. Michelsen	137	121	152
J. Kruchten	121	116	115
J. Orsesky	181	130	155
E. Armstrong	117	141	130
J. Zech	211	148	159
	767	656	711

Vaughan's Special Offer Dormant Roses

Extra good strong stock,	Per 100	Per 1000
Debutante, 2-yr	$1 50	$12 00
Taunusblumchen	1 50	12 00
Gruss an Zabern	1 50	12 00
Sweetheart,	1 50	12 00
Hiawatha,	2 00	15 00
Baby Rambler, 1st size, 2-yr	3 00	20 00
" " 2nd size	2 50	16 00
" " 3rd size	1 50	10 00

All Plants F. O. B Western Springs, Ill.

Vaughan's Seed Store,

P. O. Drawer V, CHICAGO

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Tell Your Dealer You "Saw It in THE FLORIST."

Cincinnati.

STOCK OVER PLENTIFUL.

Undoubtedly when the growers receive their returns of last week's sales they will come to the conclusion that there was a good surplus of flowers in this city. We cannot say that business is poor for there is quite a volume of business done but there are as many flowers again as are needed. About the only shortage is in sweet peas and lily of the valley; the demand for these is good and more could be sold. Roses of all kinds are in ample supply and a good many are sold by the jar. The real glut however is on carnations which were sold as low as 50 cents per 100. As stated last week carnations are coming to this market from all quarters and it is an utter impossibility to sell this shipped in stock at anything like living prices. Bulbous flowers are nearing the end and last week there was quite a call for this line of goods. Green goods of all kinds is getting scarce even down to ferns, the price of which has gone to $2.50 per 1,000. Lilium longiflorum and callas, have been in oversupply since Easter although some of our most prominent growers claim that the crop is going off. Snapdragon, the quality of which never was better, has been good property. Daisies, pansies and other spring flowers meet with a good demand.

DESTRUCTIVE HAILSTORM.

A most disastrous hailstorm passed over Westwood, Mt. Airy, College Hill, Hartwell, Wyoming and Sockland last Wednesday afternoon and the glass in all the greenhouses in its path was smashed to atoms. Probably the heaviest loser is W. K. Partridge who lost 30,000 feet with no insurance. J. Voltz & Son in Westwood lost about 400 panes, Jos. Brigel, Mt. Airy, about the same; Max Rudolph about 2,000 feet, George Corbett, 7,000, George Magrie, McAvoy Bros., Jos. Linfoot, Harry Corbett and Walter Gray all suffered an enormous loss as did J. Conger of Hartwell. It is rather difficult to get an estimate of the entire loss as reports are rather conflicting. However, the majority of growers caught, we regret to state, were not insured and this will be a hard blow, as some of the stones that fell were as large as hen's eggs and did considerable damage to the stock which is just ready for spring sales. George Corbett telephoned the writer about 20 minutes after the storm and said he had already purchased his glass and his men were then at work cleaning up the broken glass. "Some hustling that."

NOTES.

Mrs. Henry Glins has sold her store on Upper Vine street to Carl Yager, a young man who has been in her employ for some time. As this is an old stand Carl ought to do well as he is an ambitious chap. Mrs. Glins will leave in the near future to visit her sister in Boston, Mass.

Tom Windram and Will Murphy left Tuesday morning for Mr. Windram's asparagus farm in Florida. They will be gone about two weeks and Mr. Murphy will call on some of his customers on his return trip.

Weiland & Olinger state that they have bought the Jenning's greenhouses at New Castle, Ind., and will use the same for growing green goods such as Asparagus Sprengeri, A. plumosus and smilax.

Clarence Ohmer of Gillette and Ohmer left April 20 for Florida to recuperate as he was run down after a season's strenuous business and we hope that the rest will do him good.

Miss Adar Kresken who has been under the weather is, we are glad to report, convalescing.

S.

MARY TOLMAN

A New Light Salmon Pink Carnation.

Of a somewhat warmer tone than Enchantress, and does not fade on the edge of the petals, having a clear, even shade all over the flower, which measures from 3 to 3½-inches, although 4-inch flowers are very common. The stem is long and stiff, holding the flower perfectly erect. The calyx is very strong, and as a producer, it comes early, is very free and continuous.

Orders booked now for January 1910 delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. **HUNT BROS., Park Ridge, Ill.**

Sangamo

Is the new, brilliant, glistening **PINK CARNATION** shown at Indianapolis, and awarded the A. C. S. Certificate of Merit, attracting the attention of every carnation grower on account of its very pleasing color, long stiff stem and well formed flowers, measuring 3 to 3½ inches. The calyx is strong, and as a producer it cannot be excelled. Orders booked now for January, 1910, delivery.

$12.00 per 100; $100.00 per 1000.

Grown and disseminated jointly.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO. Joliet, Ill.**

A New Seedling Carnation

Conquest

Light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. It does not fade, making it a most beautiful and attractive flower. Its habit is somewhat on the order of Lawson, although the stem is somewhat longer and very stiff. The flowers are well filled and nicely formed, which add to its attractiveness. Without a doubt it will be the most attractive variety as well as the most profitable variety to be disseminated the coming season. This is a variety which the florists have been wanting ever since they discarded Prosperity, as it is so far superior to all others in this class.

Orders booked now for January 1st, 1910, delivery.

$12.00 per 100; $100.00 per 1000.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., **Joliet, Ill.**

Carnation Cuttings and Plants

Extra Strong Stock Well Rooted.

	From Sand 1000	From Soil 1000	From 2½-in. pots 1000
White Perfection	$25.00	$27.50	
Lady Bountiful	20.00	25.00	
Enchantress	20.00	22.50	$25.00
Rose Pink Enchantress	20.00	25.00	
Winsor	20.00	22.50	
Melody	22.50		25.00
White Lawson	20.00	22.50	
Splendor	40.00	50.00	55.00
Lawson-Enchantress	$40.00	$50.00	$55.00
Andrew Carnegie	50.00		
Sarah Hill		50.00	
Pres. Seelye		50.00	
Lloyd		40.00	
White Enchantress	25.00		
Beacon	35.00		
Afterglow	50.00		

Gov. Deneen ...$10.00 per 100, from sand

Mrs. J. C. Vaughan, from 2½-in. pots,.....$12.00 per 100.

CHICAGO CARNATION CO., A. T. Pyfer, Manager, **Joliet, Ill**

CANNAS

	Per 100
10 varieties, 3-in. pots, April 25	4 00
Alternantheras, red and yellow	2 00
Coleus, 10 varieties	2 00
Verbenas, April 25	2 00
Vinca Var., 2¼-in. pots	2 50

GERANIUMS

	Per 100
8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in. pots	4 00
Double Petunias	3 00
Asp. Sprengeri, April 25	2 00

Asparagus Plumosus Seed, new crop.....$2 00 per 1000

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

Send Advts. Early for Best Service.

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

New Carnation Lucille

White, overlaid with Pink.
Will bring you bigger returns.

Try it and be convineed that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory. Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor,, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.
Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Washington.

A BUSY WEEK.

All experienced an exceptionally busy week, owing to the numerous weddings, luncheons, dinners and funerals.

CLUB MEETING AND BANQUET.

After a short meeting, on the evening of April 20, the members of the Florists' Club, with their wives, sweethearts or friends made merry in their own distinctive way at the annual banquet held at Congress hall. The banquet room was beautifully decorated with groups of palms and flowering plants. The tables were decorated with vases of Killarney roses, while from the balcony, hidden behind an enormous bunch of American Beauty roses, came the sweet strains of Pistoria's band. Fred H. Kramer, recently elected president, announced that Wm. Gude would act as toastmaster, and the way he handled the matter met with the hearty approval of all. One of the most surprised men at the banquet was George C. Shaffer, the retiring secretary of the club. Mr. Gude spoke highly of the many things he had done on behalf of the club and presented him with a handsome silver bread tray. The retiring secretary expressed his surprised thanks. Other speakers were Peter Bissett, former president of the club, and I. Rosnosky, Philadelphia. The newly elected secretary, O. A. C. Oehmeler, congratulated the members on the growth of the club and the cleverness of the banquet arrangements and promised to do all he could to advance the growth of the club. Among the foreign speakers were L. G. Eutz, a grower of Boskoop, Holland, who made a hit, regardless of his excuse that he could not speak English as well as those about him. Henry Kallen of Belgium also expressed his pleasure at being a guest of the club and at a late hour the merry party departed for home.

G. S.

BALTIMORE, MD.—John Cook, the veteran rose grower, has been confined to his room with neurotic rheumatism the past three months.

CARNATIONS

Rooted Cuttings

	Per 100	1000		Per 100	1000
Mrs. J. C. Vaughan,	$12 00	$100 00	Enchantress,	$3 00	$25 00
O. P. Bassett,	8 00	60 00	Rose Pink Enchantress	3 00	25 00
per 500	$35 00		Sarah Hill,	5 00	45 00
Mrs. Chas. Knopf,	12 00	100 00	Winona,	5 00	45 00
Ruby,	12 00	100 00	Winsor,	3 00	25 00
Afterglow,	5 00	45 00	White Enchantress,	4 00	35 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph Street, CHICAGO. 25 Barclay Street, NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

ANNOUNCEMENT

We have arranged with **MESSRS. PATTEN & CO., Tewksbury, Mass.,** to grow part of the stock of our

New White Carnation Shasta

and to assist us in disseminating it next season, 1910. Orders entrusted to them will receive the same careful attention as those sent to us. We have 12,000 plants between us.

Shasta scored 89 points at the A. C. S. Convention, Jan. 27-28, 1909, and was generally conceded to be the best looking new variety in the whole show.

It Is a Money Maker for both Grower and Dealer.

Orders are being booked by Messrs. Patten and ourselves at **$12.00** per 100; **$100.00** per 1000. Dealers will please write for discounts.

BAUR & SMITH, 38th St. and Senate Ave., **Indianapolis, Ind.**

GET NEW CUSTOMERS By placing your specialties before the purchasing florists of the entire country by advertising in

Send Copy Now. **THE AMERICAN FLORIST.**

Grafted Brides

Bench Plants, 2-years old
$40.00 per 1000
——Very Fine Stock——

Bassett & Washburn,

76 Wabash Ave., CHICAGO.
Greenhouses, Hinsdale, Ill.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$7 00	$65 00
Maids, grafted	3 50	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Maids	$3 00	$25 00
Brides	3 00	25 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

LARGEST STOCK OF ALL
Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Asparagus and Smilax

	Per 100	1000
Plumosus, fine stock, ready now	$3 00	$25 00
Sprengeri, ready June 1st	1 50	15 00
Smilax, ready June 1st	1 50	15 00

Specially grown and extra fine
Lots of 10 000 or over at special prices.
Samples for 10c.

ALBERT M. HERR, Lancaster, Pa.

FULTON, ILL.—McKee & Preston, a new firm in the florist world, will build a new greenhouse 16x250 feet.

SAN DIEGO, CALIF.—A rose show will be held under the auspices of the Floral Association in the Union building May 7-9.

DANVILLE, PA.—J. R. Jackson, of the Castle Grove Greenhouses, has resigned his position and returned to his home in Newport, R. I.

DUBUQUE, IA.—Professor B. J. Horchem last year purchased a small neglected farm for the boys of his school which has been greatly improved owing to its being run as a school vacation farm. He now proposes to turn it into a permanent vacation school farm. The farm "before and after" is well illustrated and described in the Journal of Education.

WASHINGTON, D. C.—The drowning of Joseph H. Painter, botanist, and Robert S. Wallis, 16 years old, on December 6 last, as reported in our columns, while canoeing on the upper Potomac, was recalled April 16 by the finding of the body of Painter. The discovery of the body was made by two men who were at work on the bank of the river protecting their property from the high water, and these secured it with a rope and then notified the police.

ROSES

	Per 100	Per 1000
Beauties, 4-in., extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
My Maryland, extra fine, own root, 3½-in	12 00	110 00
" " " " grafted, 3½-in.	20 00	180 00
Rhea Reid, 2½-in.	5 00	45 00
" " 3½-in.	6 50	55 00
Killarney, own root, 3½-in.	12 00	100 00
" grafted, 3½-in.	16 00	150 00
" own root, 2½-in.	5 00	55 00
Cardinal, 2½-in.	6 00	
Bride, Maid, Potter Palmer, Kaiserin, 2½-in.	5 00	45 00
Bride, Maid, Potter Palmer, Kaiserin, 3½-in.	6 50	55 00

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now, R. C...$2 50 per 100; $20 00 per 1000
2½-in. ..... 3 00 per 100; 25 00 per 1000

No more Virginia Poehlmann R. C. or 2½-in. until June 15.
For other varieties of 'Mums see classified adv.

SPRENGERI, strong, 3-in...$4 00 per 100: $35 00 per 1000
SMILAX, 3-in. ..... 4 00 per 100; 35 00 per 1000

Carnations Sarah Hill, 2½-in. ..... $3 00 per 100
Lloyd, 2½-in. ..... 2 50 per 100

Above is all choice stock, guaranteed to please.
2 per cent off for cash. Terms: 30 days net.
Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

GRAFTED ROSES

One Slected Manetti.

Clean, healthy wood. Grown especially for grafting.

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100.

Rhea Reid, $15.00 per 100.

(Orders booked now and plants neld till you are ready for them after the Easter rush, or later.)

JACKSON & PERKINS CO., Newark, New York.

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond. Rose pots, $15.00 per 100; 3½ in. pots, $18.00 per 100. Brides, Bridesmaids, Golden Gates, Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio

SPECIALTIES.

ROSES from 3-inch pots. **CHRYSANTHEMUMS. CARNATIONS,** for fall delivery. **SMILAX. VIOLETS**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Leedle Roses

'nough Said.

TEAS.

	2½-in. 100	2½-in. 1,000	4-in. 100
Bougere	$2.50	$22.50	$8.00
Catherine Mermet	2.50	25.00	
Christine de Noue	3.00	27.50	
Coquette de Lyon	2.50	25.00	8.00
Devoniensis (Magnolia Rose)	2.50	25.00	
Duchesse de Brabant	3.00	25.00	8.00
Etoile de Lyon	2.75	27.50	
Golden Gate	2.50	25.00	8.00
Isabella Sprunt	3.00	25.00	8.00
Ivory	2.50	25.00	
Mme. de Vatry (Creole Beauty)	2.50	25.00	8.00
Mme. Lombard	2.75	27.50	8.00
Mlle. Cecile Berthod	2.50	25.00	8.00
Mlle. Francisco Kruger	2.50	25.00	8.00
Marie Guillot	2.50	25.00	8.00
Marie Lambert (Snowflake)	2.50	22.50	8.00
Marie Louise	2.50	22.50	8.00
Marie van Houtte	2.50	25.00	8.00
Uncle John	2.50	25.00	
White Bougere	2.50	25.00	

HYBRID TEAS.

	2½-in. 100	2½-in. 1,000	4-in. 100
Blumenschmidt (New)	$10.00	$100.00	$25.00
Helen Gould (Balduin)	3.00	27.50	
Instituteur Sirdey	4.50	40.00	
Jacob's Perle (New)	10.00	100.00	25.00
Kaiserin Augusta Victoria	3.00	30.00	
Kaiserin Goldifolia (New)	6.00	50.00	15.00
Lady Battersea (Red Niphetos)	3.00	27.50	8.00
Magnafrano	4.00	35.00	
Mme. Jenny Guillemot	4.00	35.00	12.00
Meteor	3.00	27.50	
Rhea Reid (New)	10.00	100.00	25.00
Souvenir du President Carnot	3.50	30.00	
Striped La France	3.00	27.50	
Wellesley	3.00	30.00	8.00
White La France	3.00	27.50	

CLIMBERS.

	2½-in. 100	2½-in. 1,000	4-in. 100
Caroline Goodrich (Noisette)	$2.50	$25.00	$7.00
Climbing Devoniensis (Cl. Tea)	2.50	25.00	8.00
Climbing Meteor (Cl. H. T.)	3.00	27.50	
Empress of China (Cl. Ben)	2.50	25.00	
James Sprunt (Noisette)	2.50	25.00	
Mary Washington (Noisette)	2.50	25.00	
Reine Marie Henriette (N.)	2.50	25.00	
Reve d'Or (Golden Chain, Cl. T.)	2.50	25.00	
Solfaterre (Noisette)	2.50	25.00	7.00

HARDY CLIMBERS AND RAMBLERS.

	2½-in. 100	2½-in. 1,000	4-in. 100
Baltimore Belle	$2.50	$25.00	$7.00
Crimson Rambler	3.00	25.00	
Debutante	2.50	25.00	7.00
Dorothy Perkins	2.50	25.00	
Keystone	2.50	25.00	
Lady Gay	2.75	27.50	7.00
Manda's Triumph	2.50	25.00	
Philadelphia Rambler	2.50	25.00	8.00
Pink Rambler	3.00	25.00	8.00
Prairie Queen	2.50	25.00	7.00
Russel's Cottage	2.50	25.00	7.00
Seven Sisters	2.50	25.00	7.00
South Orange Perfection	2.50	25.00	
Sweetheart	2.50	25.00	7.00
Tennessee Belle	2.50	25.00	7.00
Universal Favorite	2.50	25.00	7.00

MISCELLANEOUS.

	2½-in. 100	2½-in. 1,000	4-in. 100
Anny Muller (Pink Baby Rambler)	$2.50	$25.00	
Burbank (Bourbon)	2.50	25.00	
Conrad F. Meyer (Hy. Rugosa)	3.50	35.00	
Hermosa (Bourbon)	3.00	27.50	
Louis Philippe	3.00	25.00	$8.00
Mosella (Hy. Pol.)	2.50	25.00	
Moss, White, Pink, Red	4.50	40.00	10.00
Phyllis (New Dwarf Rambler)	10.00	100.00	15.00
Pink Soupert	3.00	25.00	

Hardy Hybrid Perpetuals.

	2½-in. 100	2½-in. 1,000	4-in. 100
Ball of Snow (Boule de Neige)	$3.50	$30.00	
Francois Levet	3.50	30.00	
Giant of Battles	3.50	30.00	
Madame Masson	3.50	30.00	
Magna Charta	3.50	30.00	$7.00

On own roots, summer grown, winter rested.

THE LEEDLE FLORAL COMPANY SPRINGFIELD, OHIO

CHRYSANTHEMUMS

I have now ready 100,000 plants from 300 varieties,

Large Flowered, Singles, Pompons, etc.

These are fine stock from 2¼-inch pots.

All the Standards such as:

Robinson, Bonnaffon, Duckham, Clay Frick, Beatrice May, Mrs. Partridge, Polly Rose

—In Large Quantities, at—

$3.00 per 100; $25.00 per 1000.

Write me what you want and see what I can do for you

CHARLES H. TOTTY, Madison, N. J.

COMMERCIAL CHRYSANTHEMUMS...

For varieties and prices see page 667 of last week's AMERICAN FLORIST.
Also full quota of other kinds suitable for any purpose.

ELMER D. SMITH & CO., Adrian, Mich.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore	$1 00 per doz.; 6 00 per 100; $50 00 per 1000		

N. C. MOORE & CO., Morton Grove, Ill.

Miscellaneous Spring Bedding Stock.

Cannas, Moss-rooted, 6 to 12 in. high. Allemania, Kate Gray, Chas. Henderson, Burbank, Washington $5 00 per 100
Geraniums, strong, 4-in 7 00 per 100
Vinca Variegated, 3 to 4-in $5 00-10 00 per 100
Alyssum, Little Gem, 2½ in 2 50 per 100
Ageratum, Dwarf Blue, 2½ to 3 2 50- 3 00 per 100
Cobeas, 3-in 5 00 per 100
Coleus, 2¼ to 3-in 2 00- 3 00 per 100
Dracæna Ind., 3-in 5 00 per 100
Dusty Miller, 2¼-in 2 00 per 100
Verbenas 2 to 2½-in 2 00-3 00 per 100
Salvia, 3-var., 2½ to 3-in 2 50-3 00 per 100

WEST END GREENHOUSES, Lincoln, Ill.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors, extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud 1 00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**

Grower of the Finest Pansies.

COLEUS In 10 very best Varieties :: ::

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones.

$2.00 per 100; R. C., 75c per 100.

CANNA, Pennsylvania, started, strong plants, $2.00 per 100; $10.00 per 1000.

Boston Fern, 2-inch, $3.00 per 100.

WALTER W. COLES, Kokomo, Ind.

Stock, Princess Alice, fine for Decoration Day 2-in. 1½c

Heliotrope, Stevia Variegata, Vinca Var., strong, 2-in. 2c.

Dusty Miller, 2-in. 1½c.

Geraniums, single and dbl. Grant, Nutt, Bruant, etc., 2-in. 2c. **Ageratum,** 2-in., 2c.

Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem), 2-in., 2c.

Hollyhock, Single field, $2.00 per 100.

ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, yellow; **Swainsona,** alba, $1 00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c, $8 00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5 00 per 1000; **Artillery Plant, Flowering Begonias,** $1 25; **Fuchsias,** 8 kinds, $1.00; **Salvia,** Splendens, Bonfire, 90c per 100; **Parlor Ivy,** 75c **Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Geraniums..

Best Varieties,

2½-in., ready for 4-in. $2 00 per 100; 300 for $5.00 Ivy Geraniums and Salleroi, 2½-in., same price.

Cabbage Plants, all kinds $1.00 per 1000 $8.00 for 10 000.

Tomatoes, best varieties $1.50 per 1000

Cauliflower, Snowball 2.50 per 1000

Egg Plants and **Peppers** 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

CHRYSANTHEMUMS **White**—Timothy Eaton, Mrs. Geo. S. Kalb, fine early: Estelle, White Bonnaffon, Alice Byron, Ivory, C. Touset, Jeannie Nonin, October Frost, Early Snow, Angele Laurent.

Pink—Glory of the Pacific, Dr. Enguehard, Maud Dean, Pink Ivory, Rosette.

Yellow—Major Bonnaffon, Cremo, Robt. Halliday, "Baby," small yellow of the button type.

50,000 Rooted cuttings ready. Send for prices.

WM. SWAYNE, Box 226, KENNNETT SQUARE, PA.

2½-inch Stock Chrysanthemums Ready

Golden Glow, Pacific Supreme, White Cloud, Lynnwood Hall $5.00 per 100; Golden Eagle, $10 00 per 100; Virginia Poehlmann, Alice Roosevelt, $4.00 per 100, $35.00 per 1000; October Frost, Appleton, White Bonnaffon, Touset, and run of commercial sorts, $3.00 per 100, $25.00 per 1000.

Cash, please.

I. M. RAYNER, Greenport, L. I., N.

Miscellaneous Plants

Ampelopsis Veitchii, 4-in. pots, $1.50 per doz., $10.00 per 100.
Cannas, King Humbert, 3-in. pots $5.00 per 100.
Carnations, R. C., from soil, $2.00 per 100—Pink: Dorothy; Scarlet—Elbon; White—Flora Hill, B Market—$3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud Pacific Supreme, Golden Glow, 2½-in. pots $5.00 per 100.
Clematis Paniculata, 4-in. pots, $1.50 per doz., $10.00 per 100; 3-in. pots $5.00 per 100
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Geraniums, best commercial varieties, 3-in. pots, $4.00 per 100.
Rose Geraniums, 3-in pots, $4.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
Vinca Variegata 2½-in pots $3.00 per 100
Lobelia, Double blue 2½-in. pots $3.00 per 100.
Moonvine, The true large flowering white, 2½-in. $3.00 per 100 3-in pots $4.00 per 100.
Funkia Variegata $4.00 per 100.
Cobea Scandens 3-in. pots $4.00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum, Carpet of Snow; Heliotrope blue and white; Fuchsias 4 varieties; Phlox Drummondi, dwarf; Lobelia Emperor William; Salvia Bonfire and Zurich; Saxifraga Sarmentosa Verbenas: Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum Inimitable; Feverfew Little Gem; Coleus Verschaffeltii and Golden Bedder quadricolor Golden Feather.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts. **PHILADELPHIA, PA.**

ARAUCARIAS

EXCELSA
Fine Stock

5-in, 3-4 whorls, 12 to 14-in. high, each, **75c** doz, **$8.00.**

6-in. 4 whorls, 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in. high, each, **$1.25** doz, **$14.00.**

VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.

25 Barclay St., NEW YORK.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.

2½-in.....$5.00 per 100; $45 00 per 1000

CYCLAMEN.

3-in.....$7.00 per 100 4-in.....$15 00 per 100
5-in.....$25.00 per 100

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

FOR SALE.

Stevia out of 2-in.. variegated.....	2.00 per 100
Dracena Indivisa out of 2-in	2.00 per 100
Clematis Paniculata, out of 3-inch very strong	5.00 per 100
Clematis Paniculata, out of 2-inch extra strong.....	2.00 per 100

Cash with order.

SAMUEL V. SMITH, 3323 Goodman Street, **Philadelphia, Pa.**

BIG STOCK OF

BEDDING PLANTS

Ready now for immediate shipment.

	Per 100
Geraniums, 4-in. S. A. Nutt, dark crimson: John Doyle Mme. Thibaut pink.....$7 00	
Scarlet Sage, best variety of all Sage, Bonfire or Clara Bedman, 4-in., in bloom.....	00
Begonia Vernon, the so well known best dark variety of our own importation, best of all bedding plants, a constant bloomer, takes the place of Geraniums, 4 in.....	8 00
Begonia Erfordi, pink, 4 in.....	00
Begonia Flambeau, or Octavie, a fine waxy foliage plant for window boxes and vases, 5½-in. pots	2 50
Fuchsias, assorted, 4 in.....	6 00
Ageratum, Best of the Blue	6 00
Double Petunias, assorted, 4-in	7 00
Lantanas, assorted 4-in.....	7 00
Nasturtiums, Dwarf, assorted.....	6 00
Vinca Variegata (Periwinkle), 4 in.....12 00	
Cobea Scandens, fine blue bell-shaped climbing vine, grows 30 to 50 feet in one summer	8 00

SMALL PLANTS.

Petunias, California Giant, 3-in. pots	4 00
" Inimitable or Dwarf 2½ in.....	3 00
Verbenas, assorted in bud, 2½ in.....	3 00
Coleus, Golden Bedder, Verschaffeltii and Queen Victoria, 2½ in pots.....	3 00
Coleus, fancy leaved 2½-in.....	4 00
Tagetes or French Marigold 3-in.....	3 00
Centaurea Gymnocarpa or Dusty Miller 2½-in.....	3 00
Parlor or German Ivy, 2½ in	3 00
Candytuft, assorted 2½-in.....	3 00
Lobelia Compacta and Trailing, 2½-in.....	3 00
Kentilworth Ivy, 2½ in.....	3 00
Sweet Alyssum, Little Gem, 2½-in.....	3 00

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Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
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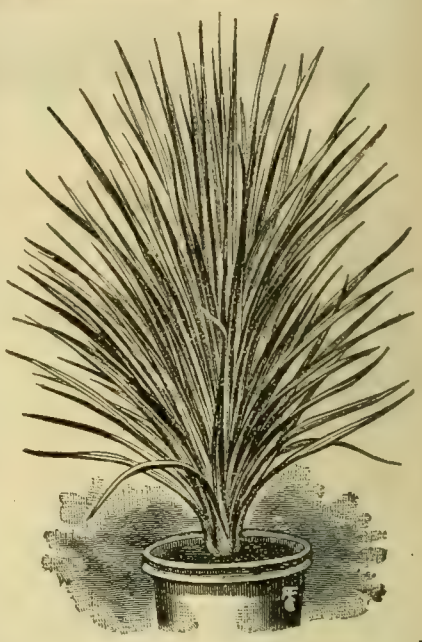

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Size	Doz.	100
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6-in. pots	6.00	45.00
7-in. pots	7.00	

Asparagus Plumosus Nanus

Size	Doz.	100
3-in. pots	$0.75	$ 6.00
4-in. pots	1.50	12.00

Adiantum Cuneatum

3-in. pots	per doz.,	$1.00
4-in. pots	per doz.,	1.50

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4-in. pots	per doz.,	$1.50
5-in. pots	per doz.,	2.00

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	Doz.	100
John Downie, scarlet	$0.75	$ 5.00
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Fashion, crimson maroon	.75	5.00
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Alyssum, double giant and dwarf, R. C., 75c; 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Alyssum, Little Gem, 2½-in., $2.50 per 100. West End Greenhouses, Lincoln, Ill.

Alyssum, dbl., R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Alyssum, dwarf and giant, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Alyssum, giant dbl., 2½-in., $2 per 100; 300, $5. J. C. Schmidt, Bristol, Pa.

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Araucaria excelsa, 5-in., 3-4 whorls, 12-14 ins., 75c each; $8 per doz.; 6-in., 4 whorls, 14-16 ins., $1 each; $11 per doz.; 6-in., 4 whorls, 16-18 ins., $1.25 each; $14 per doz. Vaughan's Seed Store, Chicago and New York.

Araucarias, excelsa, 5½ to 6-in., 3, 4, and 5 years, 4 to 7 tiers, 18 to 30 ins., 60c to $1.25. Robusta compacta and Excelsa glauca, 4 to 5 years; 6, 7 and 8-in., 3 to 6 tiers, 20 to 30 ins., $1.50 to $2. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Asparagus Sprengeri, fine plants, 2¼-in., 40c per doz.; $2 per 100; $17.50 per 1,000; 3-in., 60c per doz.; $4 per 100; 4-in., $1 per doz.; $7 per 100. Asparagus plumosus nanus, 2¼-in., 40c per doz.; $3 per 100; $25 per 1,000; 3-in., 75c per doz.; $5 per 100; 4-in., $1.25 per doz.; $8 per 100. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

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Asparagus Sprengeri, $2 per 100. Jos. H. Cunningham, Delaware, O.

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Boxwood, Bobbink & Atkins, Rutherford, N. J.

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Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz., $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Ferns, Adiantum cuneatum, 3-in., $1 per doz.; 4-in., $1.50 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns, Adiantum Farleyense, strong, thrifty plants, from 3-in. pots, $15 per 100. Thorn Hedge Greenhouses, Newtown Square, Pa.

Small ferns for fern dishes, excellent stock, 2½-in., $3.50 per 100; $30 per 1,000. C. C. Pollworth Co., Milwaukee, Wis.

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Ferns, Boston, 5-in., 30c each. Geo. M. Emmans, Newton, N. J.

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Feverfew Gem, 2-in., 2c. Byer Bros., Chambersburg, Pa.

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Ficus elastica, 6-in., 25c each. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Rubbers. P. J. Berckmans Co., Augusta, Ga.

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Fuchsias, 8 kinds, R. C., $1. Byer Bros., Chambersburg, Pa.

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GERANIUMS, 35,000 S. A. NUTT. The greatest dark red bedder. Large selected top cuttings, well rooted, equal to good 2-in. stock, $1.50 per 100; $12.50 per 1,000. 2,000 S. A. NUTT from the bench, will make fine 5-in. stock for Decoration Day, $5 per 100. Cash. The W. T. Buckley Co., Springfield, Ill.

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Geraniums, 2-in., our selection of 10 kinds, 500, $9.25; 1,000, $15; 3-in., $3 per 100; $25 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Geraniums, standard, varieties, R. C., $1.75 per 100; $15 per 1,000; 2¾-in., $3 per 100; $25 per 1,000. Mosbæk Greenhouse Co., Onarga, Ill.

Geraniums, pots, $5 per 100, Viaud, Castellane, Perkins, Buchner. R. C., Castellane, Viaud, Ricard, Nutt, $10 per 1,000. A. M. Herr, Lancaster, Pa.

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Geraniums, 8 vars., 2 and 2½-in., $3 per 100; 3 and 3½-in., $4. Jos. H. Cunningham, Delaware, O.

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Geraniums, 2½-in., $5; 3½-in., $10; 4-in., $12.50. Geo. A. Kuhl, Pekin, Ill.

Geraniums, 4-in., $7. West End Greenhouses, Lincoln, Ill.

Geraniums, best vars., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

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Gloxinias. L. Van Houtte, Pere, Ghent, Belgium.

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Greens, cut palmetto and cycas leaves, galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, smilax, ferns, palm leaves, etc. John P. Scherer, Union Hill, N. J.

Greens, hardy cut evergreens, etc. Henry M. Robinson & Co., 15 Province St., Boston.

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Hardy perennials, Anchusa Italica, $2 per doz.; $15 per 100. Anthericum liliastrum giganteum, $2.50 per doz.; $20 per 100. Aquilegia Helenæ, 85c per doz.; $6 per 100. Campanula persicifolia humosa, $1.50 per doz.; $10 per 100. Delphinium gold medal hybrids, $1.25 per doz.; $8 per 100; Belladonna, $2 per doz.; $15 per 100. Funkia robusta elegans var., $1.50 per doz.; $10 per 100. Helenium Riverton Gem, $1.50 per doz.; $10 per 100; Riverton Beauty, $1.50 per doz.; $10 per 100. Helianthus Sparsifolius, 85c per doz.; $6 per 100. Hemerocallis, 4 vars.: Aurantiaca, 15c each; $1.50 per doz.; Aurantiaca major, 35c each; $3.50 per doz.; Florham, 15c each; $1.50 per doz.; $10 per 100; Gold Dust, 15c each; $1.50 per doz. Incarvillea Delavayi, $2 per doz.; $15 per 100. Iris pallida dalmatica folio var., 35c each; $3.50 per doz. Gypsophila paniculata fl. pl., $2 per doz.; $15 per 100. Lupinus polyphyllus roseus, $2 per doz.; $15 per 100. Pentstemon gentianoides Sensation, 3-in., $1 per doz.; $7 per 100. Stokesia cyanea alba, $1.25 per doz.; $8 per 100. Choice new trollius: Gotterfunke, Helios Leuchtkugel, Lichtball, Salamander, 35c each; $3.50 per doz. Primula Cortusoides Sieboldi, $1.50 per doz.; $10 per 100. Rudbeckia Rays of Gold, $1.50 per doz.; $10 per 100. Henry A. Dreer, 714 Chestnut St., Philadelphia.

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HOLLYHOCKS.

Hollyhocks, double field-grown, true to color, strong stock, red, white, pink, yellow, maroon and black; colors separate. Also Allegheny or Everblooming in mixture, $3 per 100; $25 per 1,000. Going fast. Order today. Cash. W. W. Wilmore, Box 382, Denver, Colo.

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Hydrangeas, American everblooming, 15 ins. and up, $2.50 per doz.; $15 per 100; 10 to 14 ins., $1.50 per doz.; $10 per 100. E. Y. Teas Co., Centerville, Ind.

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German iris, 3 named varieties, $2.50 per 100; $20 per 1,000. O. B. Stevens. Shenandoah, Iowa.

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Iris. E. S. Miller, Wading River, L. I.

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Ivy, hardy English and parlor ivy, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Ivy, English, 4½-in., 15c each. N. C. Moore & Co., Morton Grove, Ill.

Ivy, hardy English, 3-in., $5 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

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Lilacs. Jacs Smits, Naarden, Holland.

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To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the valley, Chicago Market Brand, $1.75 per 100; $15 per 1,000; Berlin Special Brand, $1.50 per 100; $13 per 1,000; Hamburg Valley, $11 per 1,000; $25 per case of 2,500. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., $2; 3-in., $3 per 100; Crystal Palace Gem, 2-in., $1.50. R. Vincent, Jr., & Sons, White Marsh, Md.

Lobelia, compacta and Speciosa, 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Sphagnum. Both quality and quantity, bag or barrel, $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

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Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Berberis Thunbergii, seedlings, 5 to 7 ins., $1.50 per 100; $12 per 1,000; transplanted, 8 to 12 ins., $2.50 per 100; $20 per 1,000. E. Y. Teas Co., Centerville, Ind.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

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Orchids, just unpacked, Oncidium varicosum Rogersii, O. splendidum, O. crispum, O. Forbesii, O. sarcodes, O. Wentworthianum, O. grande, Miltonia candida, M. spectabilis, M. flavescens, Lycaste Skinneri, Scuticaria Steelii, Zygopetalum, crinitum, Z. Gautieri, Cattleya Warnerii Phalænopsis amabilis, P. Schilleriana, Vanda Sanderiana. To arrive in a few days: Cattleya Trianæ, C. labiata, Odontoglossum crispum, Dendrobium formosum, D. nobile, D. thyrsiflorum, Vanda cœrulla, Cattleya Percivaliana. Lager & Hurrell, Summit, N. J.

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Palms. Washingtonia, robusta, Chamaerops excelsa and humills and Phoenix Canariensis, 3-in. pots, $4 per 100; $30 per 1,000. Robusta, field-grown, 1 to 2 ft., $15 per 100. Euonymus Japonicus and grevillea, 3 and 4-in. pots, $4 per 100; $30 per 1,000. Dracæna indivisa, 4-in. pots, 14 to 18 in., $3.50 per 100; $30 per 1,000; transplanted, 1-year-old, 12 to 15 in., $1.50 per 100; $5 per 1,000. Acacia melanoxylon and floribunda, 3-in. pots, 14 to 18 in., $4.50 per 100; $30 per 1,000. F. O. B. Cash. Los Medanos Nursery, Cornwall, Calif.

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Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms. L. Van Houtte, Pere, Ghent, Belgium.

Palms. Bobbink & Atkins, Rutherford, N. J.

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Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms, 4 Latania Borb., 10 to 12 ft., 6 smaller. John Ralph, Saratoga Springs, N. Y.

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Pansies, transp., 1st size in bloom, $1.25 per 100; 2nd size, $1 per 100. Small plants by mail, 75 per 100. Seed, $1 per pkg. 4,000 seeds, $4 per oz. E. B. Jennings, Box 254, Southport, Conn.

Giant pansy plants, stocky, from fall sown seed, 50c per 100, prepaid; 1,000; not prepaid, $3.50. Chas. Frost, Kenilworth, N. J.

Pansies, giants in best leading strains, fall transplanted, strong plants, $1.25 per 100; $10 per 1,000. F. A. Baller, Bloomington, Ill.

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Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

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Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

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Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

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Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., $3 per 100. Jos. H. Cunningham, Delaware, O.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

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PRIVET. Ten thousand each for transplanting, California and Amoor River at $6 and $9 per 1,000; 2,000, 24 to 30, Amoor River, at $16 per 1,000. To close. Cash with order. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

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Rhododendrons. Jacs Smits, Naarden, Holland.

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ROSE PLANTS.
2½-Inch Stock.

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Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
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Rhea Reid	5.00	45.00
Killarney	5.00	45.00
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Roses, dormant, field-grown, own roots; Boule de Niege, Mme. Plantier, A. Colomb, Perle des Blanches, Climbing, C. Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia C. Rambler, Fisher Holmes, Cheshunt hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry, Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. A. Carriere, Vick's Caprice, Sir Thos. Lipton, F. Levet, Eugene Furst, Crimson Rambler, $12.50 per 100; $120 per 1,000. Tausendschon, $20 per 100; Crimson Baby Rambler, $16 per 100. The Dingee & Conard Co., West Grove, Pa.

Roses, 1-yr. bench, Am. Beauty, $7 per 100; $65 per 1,000. Maid, grafted, $3.50 per 100; $30 per 1,000. From 2½-in.: Maid, Bride, $3 per 100; $25 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per 100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. My Maryland, 3½-in., own root, $12 per 100; $110 per 1,000; grafted, $20 per 100; $180 per 1,000. Rhea Reid, 2½-in., $5 per 100; $45 per 1,000; 3½-in., $6.50 per 100; $55 per 1,000. Killarney, own root, 3½-in., $12 per 100; $100 per 1,000; grafted, $16 per 100; $150 per 1,000. 2½-in., own root, $6 per 100; $55 per 1,000. Cardinal, 2½-in., $6 per 100. Bride, Maid, Potter Palmer, Kaiserin, 2½-in., $5 per 100; $45 per 1,000; 3½-in., $6.50 per 100; $55 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Chatenay, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, La France, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Chatenay, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, La France, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

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Roses, strong, clean stock, grafted; Bride, Maid, Killarney and Richmond, $12 per 100. Own roots: Bride, Maid, Killarney, Ivory, Gates and Richmond, $6 per 100; all from 3½-in. pots. Also Dracæna indivisa, pot-grown, plants 5½ ins., $25 per 100. P. R. Quinlan, Syracuse, N. Y.

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Roses. Ask for our catalogue and get your rose lists priced. The Good & Reese Co., The Largest Rose Growers in the World, Springfield, O.

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Westerly, R. I.

Roses, 4-in., in bloom, Baby Rambler, Soupert, Hermosa, $20 per 100; 5 and 6-in., $6, $9 and $12 per doz. Geo. A. Kuhl, Pekin, Ill.

Roses, for varieties and prices see column adv. in this issue. Leedle Floral Co., Springfield, O.

Roses, Bride, Richmond, Killarney, 2½-in., own roots. Thorn Hedge Greenhouses, Newtown Square, Pa.

Roses, Kaiserin, 2½-in., $4 per 100. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses, Crimson Rambler, Trier, Dorothy Perkins, Lady Gay, $3 per 100; $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, White Killarney and My Maryland. A. N. Pierson, Inc., Cromwell, Conn.

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Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Roses, dwarf, climbing, tree and ramblers. Bobbink & Atkins, Rutherford, N. J.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

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Salvias, 2½-in., $2.50; 3-in., $7.50; 4-in., $12.50. Geo. A. Kuhl, Pekin, Ill.

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Salvia Bonfire, 2-in., $2; 3-in., $3 per 100. Zurich, 2-in., $3; 3-in., $4 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvias, 5 varieties, R. C., $1; 2¼-in., $2.50 per 100; Zurich, 2¼-in., $3 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Salvias, 3 vars., 2½ and 3-in., $2.50 and $3 per 100. West End Greenhouses, Lincoln, Ill.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia splendens. Bonfire, R. C., 90c; 2-in., 2c. Byer Bros., Chambersburg, Pa.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

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Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis, Hambergia, pkt., 25c; Barnard's Perpetual White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi, 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Seeds, Aster Queen of the Market, tr. pkt., 15c; oz., 50c. Vinca rosea, tr. pkt., 20c; oz., 60c. Salvia splendens, tr. pkt., 35c; oz., $1.25. Lobelia C. P. compacta, tr. pkt., 25c; oz., $1.50. Mignonette, New York Market, tr. pkt., 50c; ¼ oz., 75c. Weeber & Don, 114 Chambers St., New York.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. Zangen, Hoboken, N. J.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds of all kinds. Stokes' Seed Store, 219 Market St., Philadelphia.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds. Asparagus plumosus manus, 1,000 seeds, $2; 6,000, $10; 13,000, $20; 25,000, $35; 50,000 $62.50; 100,000, $100. F. Gilman Taylor, 630 Hellman Bldg., Los Angeles.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seed, Asparagus plumosus, $2 per 1,000. Jos. H. Cunningham, Delaware, O.

Seeds, Asparagus plumosus, 1,000 seeds, $2; 6,000, $10; 13,000, $20; 25,000, $35; 50,000, $62.50. F. Gilman Taylor, 630 H. W.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton Zvolanek, Boundbrook, N. J.

Seeds. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

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Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

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Smilax, $1.50 per 100; $15 per 1,000. A. M. Herr, Lancaster, Pa.

Smilax, 3-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Smilax, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax. Wood Bros., Fishkill, N. Y.

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Spireas, J. Smits, Ltd., Naarden, Holland.

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Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

Swainsona, 2½-in., $4 per 100. N. C. Moore & Co., Morton Grove, Ill.

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Froment, Horace E., 57 W. 28th St., N. Y.

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Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

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Kennicott Bros. Co., 48-50 Wabash, Chicago.

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McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.

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Murphy, Wm., 311 Main St., Cincinnati, O.

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Sheridan, Walter F., 39 W. 28th St., N. Y.

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Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.

Bruns, H. N., 1409-11 W. Madison, Chicago.

Budlong, J. A., 37-39 Randolph St., Chicago.

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Reinberg, Peter, 35 Randolph St., Chicago.

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Kansas City—S. Murray, 1017 Broadway.

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New Orleans, La.—U. J. Virgin, 833 Canal St.

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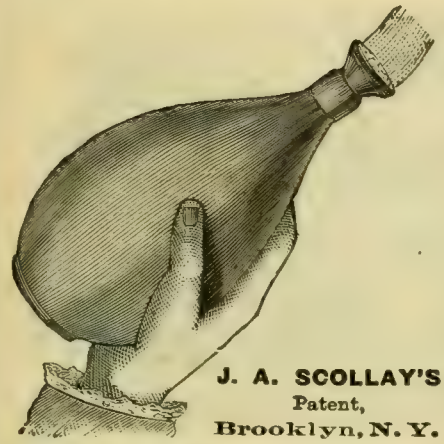
If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.



J. A. SCOLLAY'S
Patent,
Brooklyn, N. Y.

Scollay's Plant Sprinklers

FOR CUT FLOWER TRADE. Also the

Scollay Putty Bulb

FOR GLAZING GREENHOUSES, Etc.

The Scollay Plant Sprinkler is in its 35th year. Thirty-five years of experience should count for something—we have given attention to quality in every respect—making of seams—selection of high-grade rubber. During these 35 years there have appeared more than 35 imitations, all the way from hand levers—tee ends—breakable tops down to Chinese and Boston Blowers—and, after all, the fact remains the same, that we are still the real thing in rubber sprinklers, etc. No one is so new or old in the cut flower trade that he can keep shop without **Scollay's Rubber Plant Sprinklers.** Every sprinkler guaranteed free from imperfection in manufacture.

For Sale by All Prominent Seedsmen.

JOHN A. SCOLLAY, 74-76 Myrtle Ave., Brooklyn, N. Y.

THE WHILLDIN POTTERY COMPANY

THE LARGEST MANUFACTURERS OF

STANDARD FLOWER POTS

PHILADELPHIA, PA. LONG ISLAND CITY, N. Y. JERSEY CITY, N. J.

BEST ENGRAVINGS AND ILLUSTRATIONS

OF EVERY DESCRIPTION

For Catalogues.

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Send For Estimates.

COLUMBIAN ENGRAVING CO.,

331-335 Dearborn St. CHICAGO.

Those Red Pots

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.

HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Standard Flower Pots!

Packed in small crates, easy to handle.

	Price per crate			Price per crate
1500 2-in.,	in crate, $4.88		144 6-in.,	in crate, $3.16
1500 2¼	" 5.25		120 7	" 4.20
1500 2½	" 6.00		60 8	" 3.00
1000 3	" 5.00		HAND MADE	
800 3½	" 5.80		48 9-in.,	in crate, $3.60
500 4	" 4.50		48 10	" 4.80
456 4½	" 5.24		24 11	" 3.60
320 5	" 4.51		24 12	" 4.80
210 5½	" 3.78		12 14	" 4.80
			6 16	" 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for Price

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Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

Wired Toothpicks

10,000, $1.75; 50,000, $7.50. Manufactured by

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Sample free. For sale by dealers

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LARGE RUNS OF

CATALOGUES

OUR SPECIALTY

WRITE FOR FIGURES.

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GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.

361-363 Herndon St., CHICAGO, ILL.

The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

THE foreign trade of the King Construction Co., North Tonawanda, N. Y., is evidently growing and it has now extended to England. There must be some radically good points about a greenhouse that so appeals to that most conservative of men, the English gardener, that he orders an American structure.

To Remove Putty.

ED. AMERICAN FLORIST:—

I have recently bought a lot of old greenhouse glass. How can I remove the old putty from the glass? I have tried muriatic acid without any result. Any information you can give me will be appreciated.

E. W.

One of the best methods of removing old putty from greenhouse glass is to soak the glass in caustic soda solution, using 15 pounds to 50 gallons of water. After two or three days the putty can be scraped off with a chisel.

L. R. T.

Greenhouse Painting.

ED. AMERICAN FLORIST:—

I have a house which stands 6½ feet to the gutter from the ground and 17 feet to the ridge, on which I find it very difficult to paint and repair. I would like to know the best and simplest contrivance for climbing around the roof.

B.

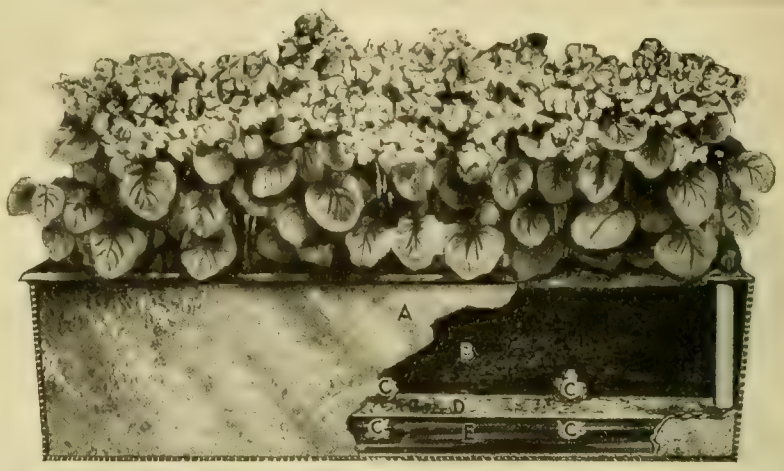
If the gutter is one that will support the lower end of a movable staging and prevent its sliding off the roof, a very simple arrangement is to take a 12-inch board, long enough to reach from the gutter to within a foot of the ridge. To keep this off the glass fasten 2x1-inch strips on the underside every four feet. These should be long enough to rest on two of the sash-bars, or perhaps three or four if the sash-bars are weak. On the top of this staging nail cross strips about 15 inches apart as foot-holds. If there is very much repairing it is sometimes well to make the platform a little wider, with more substantial strips on the underside.

In case there is no gutter to serve as a support for the staging, it is sometimes possible to prevent its slipping by nailing a temporary strip upon the plate for this purpose, or a support something like a step ladder can be attached to the lower end of the board, at such an angle as will allow the platform to rest upon the roof and at the same time both prevent its sliding and make it easy to get from the ground to the roof of the house.

L. R. T.

Self-Watering Flower Boxes.

A device that has of late been making some headway, especially in Chicago, where it has been best advertised in the local papers, but as well throughout the country by means of general magazine advertising, is the so-called Illinois self-watering flower box. Each box has a false bottom under which the water circulates, fed from above through a metal tube in one corner. It is supplied to the plants through sponges placed in one or more small holes drilled through the false bottom. Chief among the advantages claimed for this contrivance is the practical prevention of the neglect, or



ILLINOIS SELF-WATERING FLOWER BOXES

Will double your plant sales. They guard against your customers' neglect or his over-attention, which is worse. **Guaranteed Not to Leak.** Are proof against dirt on sill or porch. Write for descriptive list of boxes, hanging baskets, jardiniere pans, etc. and trade discounts.

ILLINOIS HEATER & MFG. CO., 43 Dearborn St., CHICAGO

Use our patent Iron Bench Fittings and Roof Supports.

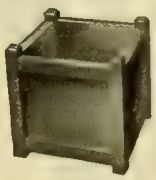
THE JENNINGS IMPROVED IRON GUTTER.

IMPROVED VAPORIZING PANS
For Tobacco Extracts, etc. Send for Circulars.

DILLER, CASKEY & KEEN,
S. W. Corner Sixth and Berk Streets, PHILADELPHIA.

VENTILATING APPARATUS.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.

WAGNER PARK CONSERVATORIES,
Sidney, Ohio.

—what is sometimes worse—over-attention, on the part of amateur growers. The boxes all being of metal the drainage, of course, is not the usual dirt-making contrivance ordinary wooden boxes are. In fact, with proper precautions they can be placed on highly polished wood surfaces without damage. An advantage that appeals to many householders is the fact that in the vacation season a two-weeks water supply can be given and the plants left with the assurance that on coming home they will be found in the same thrifty condition as when left. The longer life of the metal box as opposed to a wooden one is another advantage. Some florists have not taken kindly to the introduction of this novelty, which was patented about two years ago, and indeed to the practical grower this form of sub-irrigation may not present the most ideal conditions; but over against this is to be considered the many dangers of greenhouse-bred plants in the hands of the average amateur, and undoubtedly if veranda or window gardening could be made a bit easier and more simple there would be both a better sale for pot plants and the engendering of a greater love of flowers—this latter a missionary or advertising advantage the progressive florist cannot afford to ignore.

HAVRE DE GRACE, MD.—Chas. Uffler, formerly gardener to Mrs. F. H. Garret, Baltimore, is now with C. E. Bryan, Mt. Pleasant, this place.

Iron Reservoir Vases

AND

Lawn Settees

Manufactured by

McDONALD BROS.,
COLUMBUS, O.

The largest manufacturers of these goods in America. Send for catalogue

THE ART OF Floral..... Arrangement.

The first special newspaper in the world for floral arrangement.

250 ILLUSTRATIONS ANNUALLY.

Specimen number free.
Subscription, $2.40 yearly.

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J. Olbertz, ERFURT, GERMANY

H. BAYERSDORFER & CO.,

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA
Send for our new catalogue.

STERLING
Iron Reservoir Vases

Original Designs.

Attractively Finished.

We also Manufacture a Complete Line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are Making a Special Offer to Dealers.
Write for Catalogue and full information.

The Sterling Emery Wheel Mfg. Co.

Manufacturers of General iron Work,

TIFFIN, OHIO, U. S. A.

Toronto.

TRADE GOOD.

Trade since Easter keeps up to the usual standard, there being something in all lines which keeps using up the stock as it arrives. The rose stock is good and shows fine color, but while Bride and Bridesmaid are plentiful enough there is a decided shortage on American Beauty and Richmond. Carnations are all that could be desired, excellent blooms, good color and stems, and are bringing good prices. Violets are over for the season, but sweet peas and lily of the valley are plentiful.

NOTES.

As the result of the explosion of a 115 h. p. steam boiler, which occurred April 21, the extensive greenhouses of Miller Bros. of Bracondale, near the junction of St. Clair avenue and Dufferin street, are now lying in ruins. The most remarkable feature of the accident was that of the 23 employes who were working in the houses at the time not one was injured seriously enough to render him unable to work. The loss is estimated by Mr. Miller at in the neighborhood of $50,000, none of which is covered by insurance. The scene of the wreck is a picture of almost complete destruction. The solid brick boiler house, the walls of which were nearly two feet thick, is literally level with the ground, and the 88-foot brick chimney is scattered over an immense area. The biggest piece of the boiler which exploded is lying in the center of a field a quarter of a mile away. A smaller boiler, which weighed quite a ton and a half, is intact 200 yards away. The field adjacent to the greenhouses is covered with broken and twisted pieces of iron pipe and machinery, bricks and wood. Smaller scraps of wood and iron are reported to have fallen at various points within a mile of the scene of the wreck. The ends of all the houses next the boiler house are completely wrecked, and the unbroken panes of glass left in the houses are very few. Of the residences in the immediate neighborhood many of the windows are broken by the concussion.

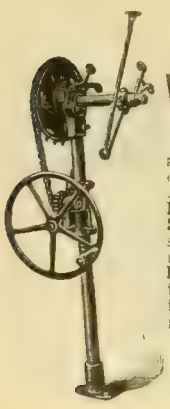
Bride and Bridesmaid roses, very select stock, and extra fine lily of the valley are coming from The Dale Estate, Brampton. The firm has lately gone into gardenias and they are proving fairly successful.

J. H. Dunlop has his American Beauty roses in fine shape and in another week there will cut very select blooms in large numbers.

Grobba & Wandrey are strong on Baby Rambler roses and hydrangeas, which find a ready market.

The Bedford Park Floral Co. is cutting some fine Richmond and Killarney roses in limited quantities.

H. G. D.



The Advance Ventilating Machine

Best on the market at $10.50 all complete. Neat **strong,** easily operated and set up. Arms at 4½c; Hangers, 8c; **Double Strength Pipe, 8c.; Single Strength, 5c.** Painted, straightened, drilled and furnished with our **patent couplings,** the best thing on earth for this purpose. Write today for circular and estimates. We guarantee satisfaction.

THE ADVANCE CO.
RICHMOND, IND

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old; 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!
A complete line of locomotive, fire box boilers, Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc., some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler
Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.
4-72x18 Horizontal tubular boilers, 100 lbs. pressure.
4-72x16 Horizontal tubular boilers, 95 lbs. pressure.
2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.
2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings; we can save you money. Greenhouse fittings at half price.

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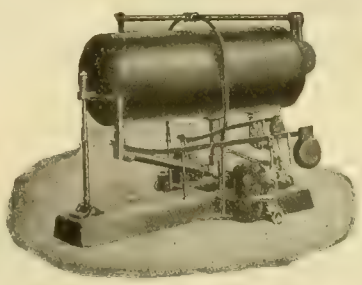
Write for Prices.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!
Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets CHICAGO.

Mention the American Florist when writing

INSTALL A "DETROIT" Return Trap



"Detroit" Return Trap. (Patented)

And You Buy a Guarantee.

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY
Dept. A. F. DETROIT, MICH.

CHRIS. PFEIFFER BOILER CO.,
66-68 Michigan Street, CHICAGO.
We build a special steel hot water boiler shipped ready for operation. No brick required.
Phones; Main 4361. 4399.

Steel Return Tubular Boilers
The Most Economical Type of Boiler for Greenhouse Heating. Highly recommended by well-known florists.
JOHNSTON HEATING CO., 138 E. 31st St., NEW YORK.

WILKS
Hot Water Boilers

Are Best for Small Greenhouses, etc.

No Night Fireman Required

WITH OUR

Self-Feeding Hot Water Boilers.

Keep an even and continuous fire for ten hours and longer without any attention.

Very Economical in Fuel.

Send for our Greenhouse Catalog.

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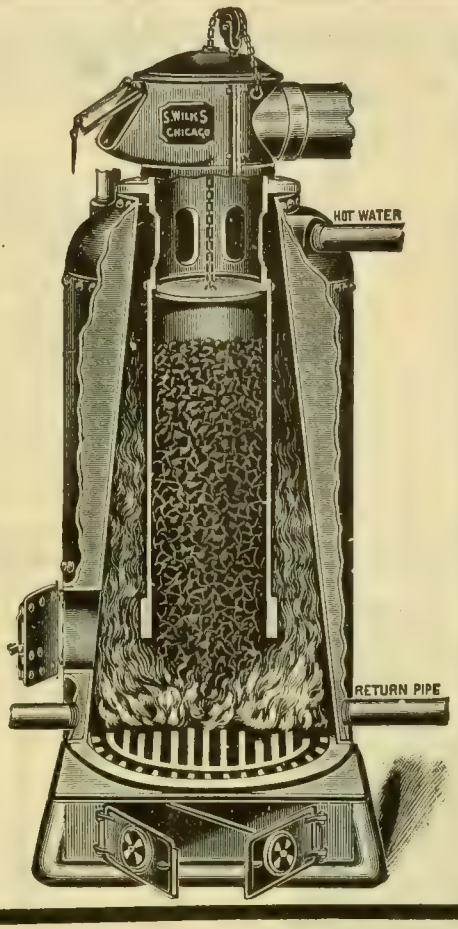
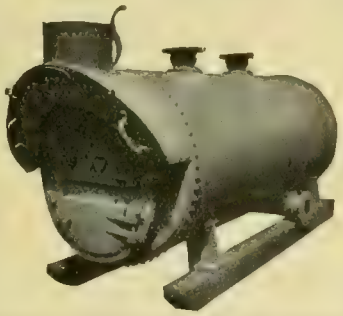


The Superior Improved Internal Fired Boiler

Made in Ten (10) Sizes.



No brick foundations required; can be cleaned while in use; shipped on skids ready for installation. Specially designed for greenhouse use.

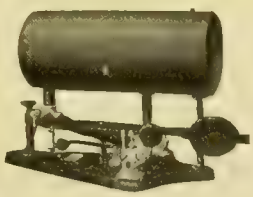
Investigate before buying.

Catalogue and Prices on Application.

Superior Machine & Boiler Works,

125-133 W. Superior St. CHICAGO, ILL.

20 Years in Service



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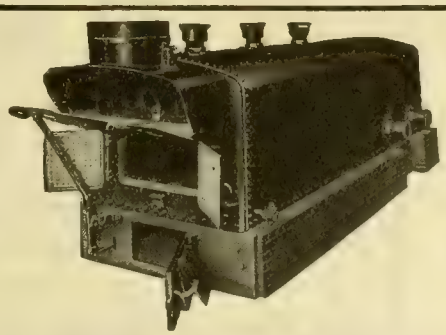
Return Steam Traps

Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.

The Floral Establishment of Mr. George Reinberg, Chicago, Ill., is equipped with **24 Morehead Traps.** Repeat orders. See the point?

——Write for particulars and a 30-day free trial.——

MOREHEAD MFG. CO., 1043 Grand River Avenue, **Detroit, Mich.**



SEE HOW WELL THEY LIKE ME

150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906.

Ask for list of users and get acquainted with the men who know.

Catalogue and prices on application.

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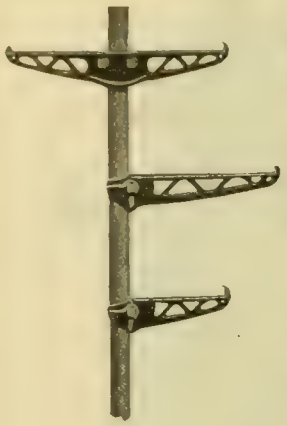
Send Your Advertisements Early.

SAN FRANCISCO.—We are in receipt of the preliminary premium list for the fall exhibition of the California State Floral Society and the Pacific Coast Horticultural Association, to be held in Norman hall, Fairmont hotel, October 14-16 inclusive. It is the intention of the management to make this the greatest floral exhibition ever held on the Pacific coast. Over $1,000 in premiums have been already donated and there is a good prospect of more. Copies of the preliminary premium list may be had on application to J. R. Atkinson, secretary, 110 Twelfth avenue, San Francisco, Calif. H. Plath is manager and Dan MacRorie assistant manager.



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At this time of the year the capacity of every greenhouse is taxed to its limit. **Bench Room** is the one important feature to consider. Remember how well our

Shelf Brackets....

will relieve this situation, and save time, trouble and room. The **Lightest, Strongest** and most **Durable** on the market. Made for ¾ to 2-in. pipe. Net prices: 12-in: single, 18c each; 8-in. single, 14c each; 8 in. double, 20c each. Please mention size of pipe post when ordering.

King Iron Frame Greenhouses...

are still leading, and if you "Ask the man who has one, you will know why." Send for Bulletin No. 26 describing Valley Gutter.

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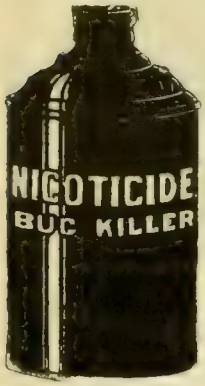
Address Lock Box 623-C. N. TONAWANDA, N. Y.



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A Knapsack Sprayer

With power for Greenhouse and Lawn spraying—nothing like it. Send for photograph and description.

Our Bordeaux Paste and Bordeaux Arsenate

DEATH TO MILDEW AND BUGS.

Why worry when you can have healthy plants and perfect bloom? Don't delay, write us and see what we have to offer you. Address.

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A 256-Page Book Free

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If you have no printed letter head, send us 25c to pay the cost of printing and the postage, and the book will be sent you promptly. You will never regret buying one of these books, and if you have a printed card, envelope, letter head or stationery of any kind, you will get the book, postage prepaid, free of cost.

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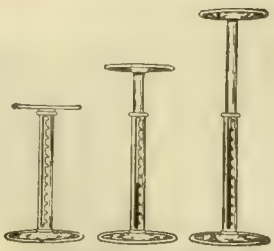
113 E. Blackhawk Street.

Mention the American Florist when writing



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Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

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LATEST DISCOVERY

Progressive Growers Investigate

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Bristish, American and Canadian Testimony
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Vaughan Specialties

Lowest Prices.

Scollay's Sprinklers, Perfection Points, Mastica, "Rose Grower" Bone Meal, Cane Stakes, Sphagnum, Nicofume, Nikoteen.

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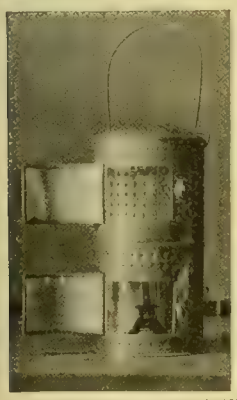

This Kills Mildew Every Time.

For particulars write
BENJAMIN DORRANCE,
Rose Growers,
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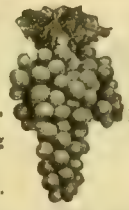
Has stood the test of over Quarter of a Century.

THOMSON'S
Vine, Plant and Vegetable
MANURE

UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



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PERFECT PLANT FOODS
Sold by Leading American Seedsmen.

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Thomson's Special Chrysanthemum and Topdressing Manure.

Freight paid on quantities. Write for our special offer to the American trade, pamphlets, agents' circulars etc., to sole makers,

WM. THOMSON & SONS, Ltd.,
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WIZARD BRAND MANURES

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

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Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

Green Flies and Black ones too
are easy to kill with
The Fumigating Kind Tobacco Powder
$3.00 per bag 100 lbs.
Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?
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Carman's Antipest
INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.
This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.
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"SULFOCIDE"
PRATT'S
SOLUBLE SULPHUR SUMMER SPRAY
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A FUNGICIDE AND INSECTICIDE
FOR FRUIT TREES, VEGETABLES and GREENHOUSES
A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.
Use 1 part to 75 or 100 parts of water.
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This is the British Trade Paper, being read weekly by all the horticultural traders: it is also taken by over 1000 of the best continental houses.
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Guaranteed pure and unadulterated, thoroughly sterilized and immediately available Used universally as a quick acting natural plant food.
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From Reliable Dealers
Keep Tab on Advts. in THE FLORIST.

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Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

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Baur Window Glass Co.

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FOR Greenhouse Glazing

USE IT NOW.

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MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

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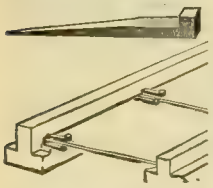

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Good for small or large glass, do not rust, easy to drive ⅝ and ⅞ inch. Per lb. 40c. 5 lbs. $1.85. 20 lbs. $7.00.

VAUGHAN'S SEED STORE, Chicago or New York.

PONTIAC, MICH.—A. B. Lewis is remodeling and improving the interior of his North Saginaw street store.

FARGO, N. D.—The output of the Briggs greenhouses has been very large this year and they have been taxed to their full capacity. This is to be greatly increased by the erection of one or more new houses.

MT. CLEMENS, MICH.—A fire which at first threatened to be serious occurred at the Macomb street store of the Mt. Clemens Floral Co. April 7. A chemical engine rapidly extinguished it, however, with little damage to the store. The fire originated from the soot box in the chimney.

HANOVER, PA.—F. E. Cremer, who divides his attention between his headquarters here and his branch store at Gettysburg, has a busy time of it at this season of the year. Mr. Cremer grows excellent stock, both carnations and miscellaneous plants and finds a ready market for his product. S.

PROVIDENCE, R. I.—Quite a storm in a teacup was raised at a meeting of the Florists' and Gardeners' Club of Rhode Island when Prof. H. J. Wheeler was accused of violating a promise made to the club by selling flowers from the Rhode Island College. Later Mr. Wheeler was exonerated from all blame by the unanimous vote of the club.

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GREENHOUSE GLASS.

You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint

The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

H. M. HOOKER COMPANY,

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Don't Buy the "Just as Good" Kind

Insist upon "the best" brand

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Window Glass, Paint, Putty, etc.

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Lock the door before the horse is stolen, and insure your glass before it is broken.

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PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

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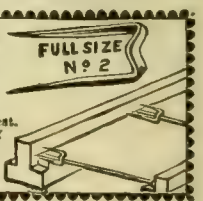

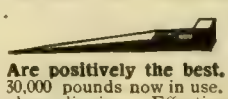

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Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

A New Curved Eave Greenhouse.

An attractive house that has all the strong features of our Flat Iron Rafter Construction, combined with a new strong, light Curved Eave. This house is not much if any more costly than the regular house with gutter at eave. Write us about it.

Hitchings & Company
1170 Broadway New York

PECKY CYPRESS

Any Size or Length.

It is the Ideal Lumber for Greenhouse Benches.

LASTS FOREVER.

THE FOLEY MFG. CO.
26th and Western Ave., CHICAGO.

Regina, Sask.

Local florists report a largely increased business at Easter, in both cut flowers and plants. Easter lilies, especially, sold remarkably well.

John McMurchie, late of Dobbie & Co., Rothesay, Scotland, has been reappointed city gardener and is at present busy preparing his estimates for work for the season. The park board intends planting a large number of trees on the boulevards this spring, principally Russian poplar and American elm. The trees and shrubs which have died in the different parks and boulevards will be replaced, and various other improvements in the city along these lines will be made. The exhibition grounds will also be prepared for tree planting, etc., as preliminary for the Dominion exhibition which will be held here in 1911. The provincial government will do some tree planting this year, principally on the streets surrounding the new parliament house site, as the ground in the vicinity of the new building is not available for planting on account of workshops, machinery, etc.

On March 23, in the city hall, Abraham Knechtel, inspector of Dominion forest reserves, gave a most instructive lecture, illustrated by magnificent stereopticon views, on the subject of forest reserves and tree planting in general. The lecture opened the eyes of many regarding the great waste of timber going on, by means of fires, lumbering operations, etc., and the remedies proposed by re-afforesting the burnt areas, etc., and taking greater precautions to prevent forest fires. Incidentally Mr. Knechtel gave the people of this city many valuable hints as regards tree planting on the streets and grounds surrounding houses, etc.

G. W.

IOWA FALLS, IA.—W. H. Hall has rented the Riverside Greenhouses and will take possession July 1, succeeding J. P. Murphy, who has bought a plant at Independence.

Why We Are Opening A Chicago Office

It is like this: It has always been difficult for us to give our numerous western inquiries the personal attention we wanted to, and believe there is a special advantage in being in closer touch with you all.

Chicago is the business center of the West and Far West, and naturally enough we have located there. Of course, we wanted to be right in the business center, so we selected an office in **"The Rookery Building,"** on the corner of La Salle and Adams Streets, You will find this office in charge of a member of our firm, Mr. George Sykes. He has been with us going on fifteen years, and thoroughly understands greenhouse building.

When you are in town look in upon him. If not convenient to do this, drop him a line.

Lord and Burnham Company,

Irvington-on-Hudson, N. Y.

Send Advertisements Early for Best Display.

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT

76-78 Wabash Ave., CHICAGO

Hagerstown, Md.

If growth and expansion are the barometer of business conditions then things are encouraging and the prospects never looked brighter. Both roses and carnations are coming in fine crops and are moving well. Outdoor planting has practically commenced and the demand for bedding stock, if it continues at this rate, may exhaust the supply, ample though it is, before the season draws to its close.

His honor ex-Mayor Holzapfel, is in line marching onward. His recent addition of three houses each 30x230 feet to his already extensive plant, as well as the general improvements about the place, such as the imposing brick smoke stack, the best that could be built for the purpose, the ample potting or working shed, etc., decidedly prove his roseate views as to the business outlook. Mr. Holzapfel grows for the wholesale market, shipping his product within a radius of 400 miles and as far south as Florida.

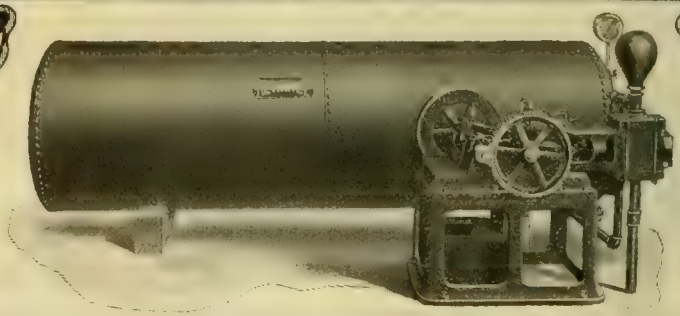
Wm. Bester does not say much about his pink seedling carnation, but those who saw it used and have watched its behavior during the past two seasons are very much inclined to the belief that it is a winner. It certainly looks it, every plant in a lot of about 3,000. Another season's test, however, will determine its fate. He has added two houses to his plant each 26x150 feet, while two more, each 30x130 feet, will soon be in course of erection. An 85-h.p. boiler, of a modern and most approved type, already installed, will furnish the heat required for the entire plant.

Henry A. Bester & Sons have built three houses each 30x150 feet, on South Potomac avenue, about two blocks from their present location and two more of the same dimensions are to go up as soon as the spring busy season is over. A 100 h. p. boiler, already on the ground, will do the work admirably. S.

WEST HARTFORD, CONN.—Roy R. Thomson, who has been in the employ of the National Fire Insurance Co. for the past three years, has taken up the flower business of his father, the late Paul Thomson. His fellow employes presented to Mr. Thomson a pair of solid gold cuff links suitably engraved.

DALLAS, TEX.—The Green Floral Co. completed its organization April 15 by electing the following board of directors: E. H. R. Green, E. M. Reardon, L. R. Bergeron, Harry Donnelly, Eugene Corley, Henry C. Coke and A. Miller. The purchase was authorized of the Haskell Avenue Floral Co. and the Kaufman road properties for a cash consideration of $125,000. This amount is also the capital stock of the Green Floral Co. The officers elected on the same date are: E. H. R. Green, president; L. R. Bergeron, vice-president; Eugene Corley, secretary and treasurer.

THE KEWANEE SYSTEM OF WATER SUPPLY



This is a Complete Private Water Works Plant

The above illustration shows a complete Kewanee System—Kewanee System No. 24. It gives service equal to that offered by the best city water supply system. Notice how compact it is. Notice its simple construction.

This water works plant includes the tank, pumping outfit, and necessary immediate connections. Extend pipe to the source of supply and to your fixtures and you will then be assured of every sanitary comfort and convenience—an abundance of water in the bathroom, kitchen, laundry, lawn, garden—anywhere.

This service, together with excellent fire protection, will be yours if you install

The Kewanee System of Water Supply

With the Kewanee System there is no elevated or attic tank to leak, freeze, overflow or collapse. A Kewanee Pneumatic Tank is located in the cellar or buried in the ground, and the water is delivered by air pressure. Any good form of pumping power which is adaptable to the local conditions, can be used with the Kewanee System.

Do you realize that there had been no improvement in the method of storing water from the time of Adam, until the Kewanee System of Water Supply was invented, about ten years ago? The only system was the gravity system, in which you put the water up in the air, where you didn't want it, in order to get it back where you did want it. This method will look positively foolish in a few years. It does look foolish now, wherever the Kewanee System is known.

Over 9000 Kewanee Systems are in use and every one is a success. Over 9000 water supply problems have been solved by the Kewanee System. Let us show you what we can do for you. No charge for expert engineering service. Our guarantee protects you. It is our rule never to have a customer dissatisfied.

Kewanee Pumping Outfits

Kewanee Pumping Outfits are furnished for any special pumping requirements. The same technical skill and practical knowledge required to develop and perfect complete Kewanee Systems, is devoted to the solution of individual pumping problems.

Write for our complete 64-page catalog, it is fully illustrated and tells where Kewanee Systems are in operation. Ask for catalog No. 53 and please mention this magazine.

Kewanee Water Supply Company, Kewanee, Illinois.

1566 Hudson-Terminal Bldg., 50 Church St., New York City.
1212 Marquette Building, Chicago, Illinois.
305 Diamond Bank Building, Pittsburg, Pa.

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ARE THE IDEAL HOUSES FOR PRIVATE ESTATES, PARKS, INSTITUTIONS AND FLORISTS' SHOWROOMS.

PIERSON U-BAR COMPANY

Send for catalog. 1 MADISON AVE. NEW YORK

PHILADELPHIA, PA.—Louis Berger has opened a retail store at 6117 Germantown avenue.

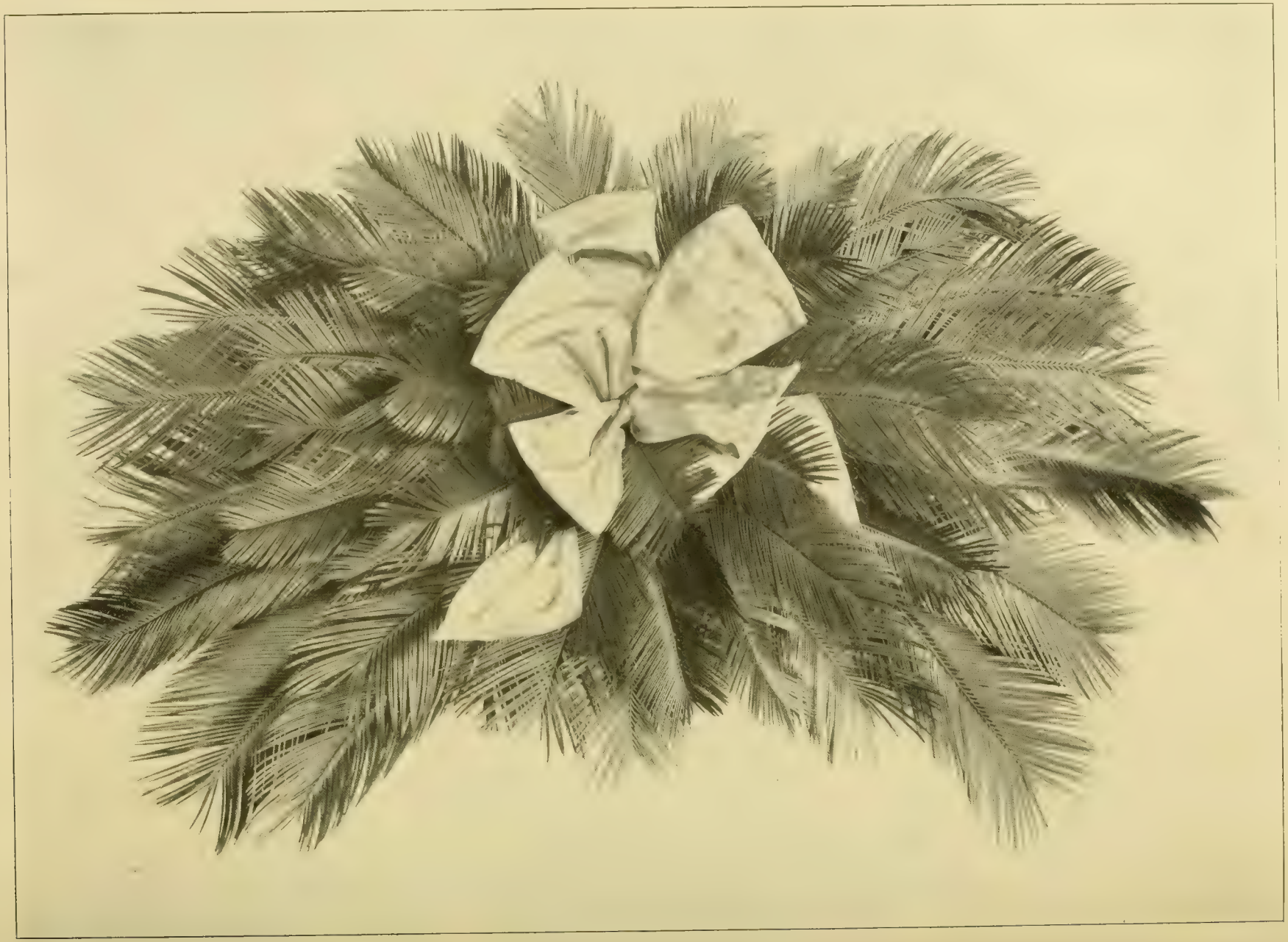
TRAVERSE CITY, MICH.—The Queen City Floral Co. is breaking ground for a new greenhouse 17x150 feet.

WEST MANKATO, MINN.—E. C. Willard's greenhouse, corner of Baker and Moreland avenues, was damaged by fire to the extent of several hundred dollars April 12.

ELIZABETH, N. J.—Edward Hennessy, one of the oldest and most expert gardeners and horticulturists in Union county, died April 20 at his home, 449 Franklin street, at the age of 64. He was born in Ireland, but had resided here more than 45 years. He had been in failing health for about a year.

HOUSTON, TEX.—The League City Orange Co. has been incorporated with capital stock $20,000 to plant, buy and sell seeds, etc. The incorporators are Brooke Smith, J. E. Walton and Gardner Thomas.

MILWAUKEE, WIS.—Mrs. C. B. Whitnall, who has always taken a lively interest in city affairs, has been re-elected member of the school board by a large vote. Mrs. Whitnall is the promoter of the cheap noonday meal for the school children of this city, has been identified with the work of the Outdoor Art and Improvement association, and has had charge of the children's gardens in connection with the Fifth avenue University settlements.



SPRAY OF CYCAS LEAVES.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, MAY 8, 1909.** **No. 1092**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

AMERICAN PEONY SOCIETY.

Sixth annual meeting at Queens, N. Y., June 1909. C. W. WARD, Queens, N. Y., Pres.; A. H. FEWKES, Newton Highlands, Mass., Sec'y.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the every day florist is called upon to perform

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see tha they get every issue, as otherwise they may miss some of this high grade work.

The Modern Sweet Pea.

Striking Development of the Most Popular Hardy Annual in the World and Its Wonderful Progress on Two Continents.

BY REV. W. T. HUTCHINS.

More or Less Historical.

An interval of about 10 years has passed since my name appeared in these columns as sweet pea correspondent, and now it is a great pleasure to get back again. Circumstances of a personal character interrupted my work with this flower, and I now find myself taking up the old line of work under changed surroundings. I am now living in California and besides having very favorable conditions of soil and climate for growing the sweet pea at its best I have easy access to extensive ranches where I see everything grown on a large scale, and where I go over the trials that include every new thing that can be obtained. Well known experts will assist me in every way to make the study complete.

Ten years ago I was trying to do this work under the less favorable conditions of soil and extreme summer variations of heat of the Massachusetts climate. Then the difficulties of bringing the sweet pea to any sort of perfection were very distressing. But now I have no such trouble. Success in California is a matter of course. We have no blight or red spider to fear. The vines imbibe health and make lusty growth and perfect color and bloom as once they did back east before the evil day came. I do not know what I may get by following the English rule of deep culture, now that the Spencer type lures us on to enthusiastic interest.

The past 10 years furnish us with a story of great activity in this flower. Just when we were feeling most depressed in America about the blight and the insect pests, over in Great Britain they were making up to this flower. And it was different from the popular wave that swept over our country. Ours was more of a craze. Our seed growers and seedsmen caught on to Henry Eckford's beautiful work and supplied everybody, and every garden had them. At a few points the interest focused into sweet pea shows, Boston, Worcester and Springfield, Mass., and the towns about Cohocton, N. Y., had very creditable shows. I have always felt that we discovered Henry Eckford before the people in Great Britain themselves did. Back in the early nineties S. P. Dicks told me they couldn't do anything with Mr. Eckford over there. But we had a lot to do with Mr. Eckford in this country and he took kindly to us. My visits to his place at Wem, Shropshire, were most cordially welcomed. But at the time of the sweet pea bicentennial held at the Crystal Palace in 1900 it was plain that the British seedsmen and flower men had discovered Mr. Eckford and now the competition there is something phenomenal. The story of the past 10 years belongs to their credit.

The Crystal Palace Bicentennial.

When I met the committee of the National Sweet Pea Society there, at the Crystal Palace bicentennial, I saw that they had begun to kindle an interest that would hold permanently and that would neglect nothing of the potential merit of this flower. Every week the Gardener, printed in London, publishes the notes of Walter P. Wright, who runs the bureau of sweet pea information. Discussions with regard to nomenclature and the finest points of distinction in novelties is very lively. The interest now turns on the new type which first appeared in Countess of Spencer, and which has now been put into about all the colors. To show how keen this interest, 100 new trial stocks have been imported to be grown this year.

I wish we could know the present status of the interest taken by the sweet pea people in Great Britain. They have surrendered to this flower. Mr. Eckford's faith in it has multiplied and now a host of specialists are at work, unfortunately adding on names without limit, but really making many new and beautiful thnigs. It is astonishing how the old Grandiflora form has suddenly leaped into the large wavy Spencer type, and bewildering

results in the Spencer form of almost every color are now obtained. Last summer we saw flowers that measured two inches across. And nearly all the seedling stock had bounded right into this type. This is where we are now. But Great Britain has the men who are putting in individual work of the highest grade. They are holding each ours and while time lasts there will be repeated revivals of enthusiasm in one part of the world and another in giving size and form to these colors. I hope to hear from various parts of our own country to see whether the time has come for emulating the present example of Great Britain. A local grower tells me there is no falling off in

THE MODERN SWEET PEA.—(About Half Natural Size.)

Countess Cadogan. Clear Violet, Wings Light Blue.

Mrs. Dugdale. Rose, Shaded Primrose.

other up by drastic criticism. The national society is doing all it can to enforce the necessary rules of judging.

Among the seedsmen, H. W. Mackereth of Ulverston styles himself "The Sweet Pea Clearing House" and he publishes a very ambitious looking list of the introducers of the latest new sorts. I have not tried to compile a complete list of everything, but including the varieties that were familiar to us 10 years ago I should say we now have at least 400 names, supposed to represent varieties of sweet peas. And when brought to a high standard of judging there are not many duplicates among them. Of course, color is duplicated. Mr. Eckford repeatedly brought out the same color in successive stages of development. But what an ever memorable work he did in drawing out new colors! I remember, in the first letter he wrote to me, he told me how many years it took him to get Orange Prince, but what a crowning success it was that he could carry that color, before he died, to the one to which he gave his own name! It is a wonderful approximation to orange and his success in getting a scarlet variety.

Effect of Climate on Color.

As I saw it at Wem in 1900 it seemed to my eye a true scarlet, although I cannot make our American stock of Queen Alexandra seem so. I think our climate changes it some. But do what we may to advance on Mr. Eckford's work in the matter of size and form, to him belongs the honor of the original elementary colors. It was a great contribution to human happiness to accomplish what he did in 30 years' work on the sweet pea. The colors he gave us are now permanently

the sale of sweet pea seed. Of course, it must remain a popular flower. But we ought at least to be a close second in the enthusiasm for the Spencer type. This means a very high grade work. But the United States is no slouch of a nation and we ought soon to hear that we have begun again to grow this flower at its highest exhibition quality.

Of course, we must expect that this Spencer type will cost nature some of its seed-producing power. In looking over fields of Countess of Spencer last summer the whole block was downright true to color and form, but only a few plants showed very much seed. We were glad to find a prophecy of hope in a few plants. If the Spencers generally behave in this way we must make a small quantity of seed do larger duty, and pay the seedsman a fair price. The man who is ambitious to do special work on this flower will give his plants plenty of room. When I went to the Crystal Palace bicentennial in 1900 I felt proud of what we had done in America. But the report of exhibitions in England makes us hold our breath now. In the 1908 Sweet Pea Annual of the national society is a letter of a prominent American seedsman who says he was astounded at the exhibition held at Vincent square. He tried to be loyal to America, but he said: "The world has certainly never seen an exhibition at all approaching this of any other single flower grown from seed." I felt the same way about the Crystal Palace show in 1900, but we were at work on the less developed sorts then. A sample of their interest in shows over there is seen in the last report of the Shropshire Horticultural Society. Their receipts for the year were practically £5,550. Where is the American society that can show an annual receipt of $27,000?

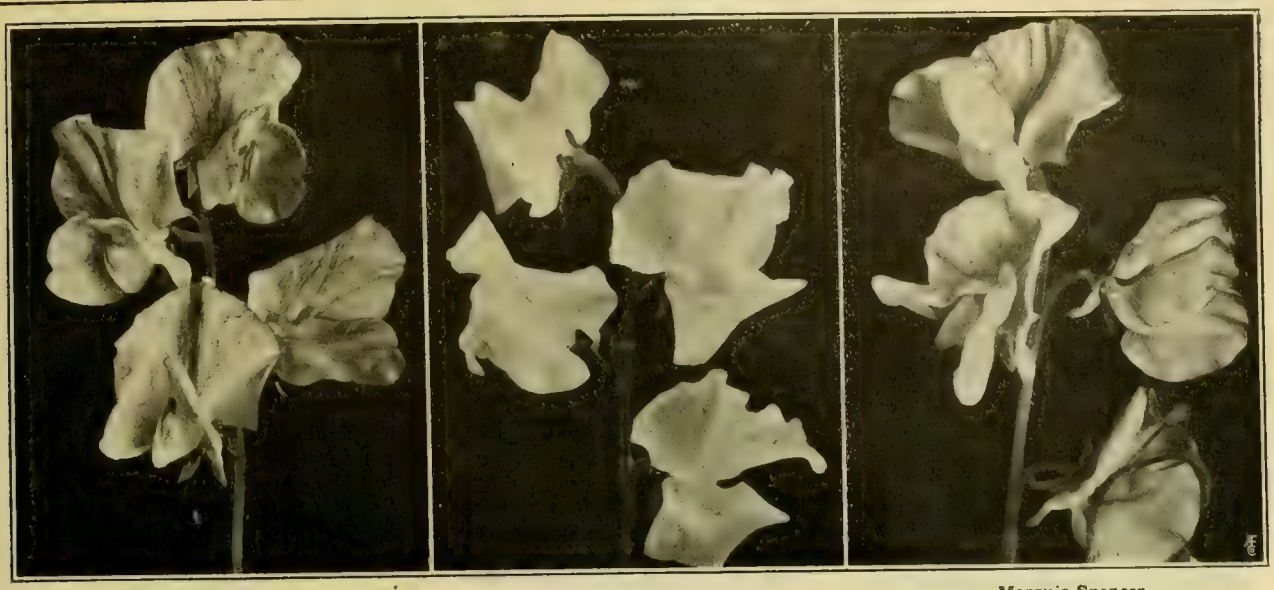
Recent Novelties.

I do not wish, in this article, to go into detail about the recent work in novelties, but the Gardener sent out a request to 50 sweet pea experts for their opinion of what was the best sweet pea in commerce, and while many qualifying remarks accompanied the answers, Mrs. Hardcastle Sykes received 15 votes, Countess of Spencer 10, Evelyn Hemus seven, Constance Oliver six, Mrs. Henry Bell three, Elsie Herbert, Dorothy Eckford and Etta Dyke each two votes. Silas Cole, the introducer of Mrs. Hardcastle Sykes, describes it as a "delightful pure pink mottled on white." Mr. Mackereth says it is a "glorious flower of Countess of Spencer form, and a blush pink

THE MODERN SWEET PEA.—(About Half Natural Size.)

Duke of Westminster. Rosy Maroon, Overlaid with Violet.

Othello. Rich, Deep Maroon.



Prince Olaf.
White Marbled Pure Blue.

White Spencer.
White.

Marquis Spencer.
Rosy Heliotrope.

Romolo Piazzani.
Violet Blue Self.

Agnes Johnston.
Rose Pink, Shaded Cream.

Midnight.
Deep Purple Maroon, Almost Black.

Countess Spencer.
Pale Pink With Deeper Edges.

Dainty.
White, Pink Picotee Edge.

Florence Morse Spencer.
Delicate Blush, Pink Margin.

THE MODERN SWEET PEA (ABOUT ONE-HALF NATURAL SIZE).

shading paler towards the center." It received an award of merit from the national society in 1905. Countess of Spencer is also claimed by Mr. Cole as his introduction, first appearing about eight years ago. Evelyn Hemus, introduced by Miss Hemus, is a "warm cream shading to yellow with a picotee edge of terra cotta pink." Constance Oliver is an introduction of Wm. Lumley—a "delicate creamy yellow suffused and crayoned with deep pink, some blooms with deep rose-carmine, very waved, perfect and distinct." Mrs. Henry Bell is "straw colored with decided rose edge." Elsie Herbert is a "giant Spencer, white with picotee edge of light rose." Dorothy Eckford we thought was a production to be proud of in the line of white, but the best stock of White Spencer now rivals it, and Etta Dyke is a white Spencer.

FLORAL ART AT THE BERLIN EXPOSITION.

THE RETAIL TRADE

Floral Art at the Berlin Exhibition.

The display of floral designs in connection with the international horticultural exhibition, held in Berlin April 2-13, was one of more than ordinary interest. Judged from a purely artistic standpoint, the arrangements set up by M. Lauchaume, Paris, stood far in front of everything else. The Parisians appear to be peculiarly gifted in the art of producing pleasing effects by means of flowers and foliage, whether it be for the ornamentation of tables, halls or rooms, or for personal adornment with sprays, bouquets, or garlands. In his color effects, M. Lauchaume was often daring, but never at fault. Nothing could be richer or more elegant than a tall, loose stand fully seven feet high, built up with big leaves of red and yellow croton, orange-colored clivias, salmon-red cattleyas, large spikes of cymbidium, and long, well-flowered pseudo-bulbs of Dendrobium Wardianum, the whole held together with fronds of Adiantum Farleyense and Asparagus plumosus. Another elegant floral trophy was composed of yellow arums, Iris Susiana, pink roses, long spikes of odontoglossum and phalænopsis, with sprays of light green Japanese acers and fern fronds. It is difficult to adequately describe these arrangements, they need to be seen to be properly appreciated.

The Germans appear to employ flowers and foliage rather as emblems or symbols of plant lore than for their mere decorative effect. They express by means of certain flowers or leaves some emotion, as Ophelia did when she gave rue and rosemary: "There's rosemary, that's for remembrance; pray you, love, remember." To some extent we make a like use of flowers, the wreath of orange blossom at weddings, the mistleto at Christmas feasts, and the primroses on Good Friday being of this character. Flower lore is, however, rapidly disappearing with us, and in most of our uses of flowers and foliage we are merely decorative, sentiment being unconsidered by either florist or employer. In Germany many of the floral designs have a sentimental meaning. Perhaps the prettiest is the spray of myrtle worn on the head of the bride. According to mythology the plant received its name from Myrsine, a favorite of Minerva; and when she was changed into this shrub it was consecrated to Venus. Among the Berlin exhibits there were many dainty arrangements of myrtle leaves and flowers. The catkin-laden branches of the goat willow are largely employed in wreath making. The significance of willow is for slighted or forsaken lovers. "In love the sad forsaken wight the willow garland weareth." It is probable that the use of pine branchlets for garlands, crowns, wreath, etc., has been copied from the Greeks, who wore them in their Olympian games. The use of poppy heads, which occurred frequently in wreaths and big crosses, is difficult to understand, unless they signify eternal sleep. Juniper, ivy, bay, Douglas fir, Erica carnea, Daphne Mezereum, grey lichen, cypress, lilac, and alder all entered largely into the composition of wreaths, crosses, columns and shields. Lily of the valley, violets, roses and forget-me-nots were much used in the general floral designs. There were excellent effects with orchids, lilies, arums, azaleas, primulas, lilac, and other favorite florists' flowers, but generally German art in this direction was not really first-class.

A design in which variegated kale leaves were used in combination with cattleya flowers was somewhat grotesque. Both Viburnum Opulus (snowball) and hydrangea were largely used for wreaths and crosses as well as in table decorations, but invariably the flowers were only half-developed and of a soft green color, a condition in which they appear to be preferred. Primula obconica was much in evidence. Stocks also were used for wreaths. Perhaps the plant most generally employed in all the compositions whether of foliage or flowers was Selaginella Watsoni; the variegation appears to please the German taste. This plant was also used to form the groundwork in the groups of plants arranged in the big exhibition halls. The principal German exhibitors of floral designs were Strahl & Falcke, Max Brust, Heinrich Kruger and J. C. Schmidt, all of Berlin.—Gardeners' Chronicle.

A Floral Pillow.

SEE SUPPLEMENT WITH THIS ISSUE.

Possibly in no other design, not even excepting the wreath, does the originality and taste of the designer or the lack of it show to so great an extent as in the floral pillow. The pillow of some designers may just as well be labeled a Rugby football or a sand bag, for there is absolutely no likeness to anything in Heaven or on earth; it is just a conglomerate mass of flowers without any form worth mentioning. Yet the pillow can be made a very attractive, even artistic, design, though of necessity it must be to some extent conventional in form. Beginners in the art of making up floral pieces should remember that the wire or other designs sent out by the supply men are not meant to be strictly followed in outline, but are intended as supports

FLORAL ART AT THE BERLIN EXPOSITION.

on which the designer carries out his ideas as to how such a piece should look. The lines of the design should appear only by suggestion, not as though they were drawn by compass or rule. Once this idea is grasped by the young practitioner, the rest is easy, for most flowers have a natural pose and grace that they fall into easily if allowed to instead of being twisted into unnatural and meaningless contortions.

While we are not in favor of a lot of lettering on floral designs, the simple word "Rest" on a pillow is suggestive and especially suitable when the funeral is of an aged person. Nor do we care for the lay figure idea in connection with flowers, but a favorite doll, laid on one side of a pillow that was intended for the funeral of a little girl gave a human and sympathetic touch to that individual case that affected more than one of the mourners. As in so many set designs, the lily of the valley stands head and shoulders above every other flower. Used with a little of its own beautiful foliage, lines or forms can be suggested without being severe, the natural grace of the bells and their pretty pose on the slender stalks preventing any possibility of stiffness. The flowers are fine in combination with white or pink roses or orchids and should in all cases be used to lighten the effect caused by the close placing of other flowers. With regard to the flowers for the body of the design, there is a great variety that can be used, almost anything in season being suitable if carefully and artistically arranged.

Retail Business in Chicago.

There is no getting around the fact that business for the past two or three weeks since Easter, has been to some extent "stale, flat and unprofitable." Nearly everyone says so and Chicago retailers do not look on the worst side of things generally. There are exceptions and some say their sales show a decided advance over those of the corresponding time last year, but the other way round is the rule. Most of the retailers are taking what consolation they can out of the fact that they expected some kind of slump after the excellent Easter trade and when asked about the cause of it the general opinion seems to be that people have so many flowers at Easter that they feel like giving them a rest for a time.

But it cannot be said that they are not out for the trade if it comes along. In every case the stores are replete with fine stock, shown in the most attractive form. Naturally the very inclement weather has been against trade of a transient character and with many well known society people out of town the trouble is made worse. At the Ernst Wienhoeber Co.'s fine store on Elm street many very attractive novelties are shown. Some of these are expensive and choice, such as the cement and alabaster vases, jardinieres, etc., but there are quite a number of natty little trifles, inexpensive and showing a good profit, yet different. For instance, we noted some little baskets filled with about half a dozen bright yellow marigolds. It seems very simple, and it is, but there is just that touch of distinctiveness and originality that makes them noticed. A customer who is tired of seeing narcissus, Killarney roses and lilies will fall to a neat little thing like this and pay a good price for it, and there are many such in this fine store.

The "butterfly" sweet peas, as the Spencer varieties have come to be called, form another attraction, their pretty, wavy petals making them quite distinct. Double white lilac, plants of the dwarf Japanese maples, some tall vases of the wild mignonette and many other seeming trifles lift the stock out of the commonplace, while the quantity and variety of the different wares is surprising. Among the novelties in this line is the ware made by the Wheatly pottery of Cincinnati, O., made in a great variety of shapes, the colors running principally to reds, greens and yellows, these running into each other in innumerable gradations. Italian and other chinaware and art pottery of all descriptions are shown in the elegant and unique showrooms over the store, making it a most interesting one to visit.

Fleischman Floral Co. reports an excellent month's business, especially in funeral and design work. At one south side funeral there was a large wagon load of designs sent from the city store and there has been a great run of bouquet work for both local and out-of-town weddings. Very choice hydrangeas from Peterson of Cincinnati are shown, as well as choice cut stock in all lines. Orchids are being sold in increasing numbers here and George Wienhoeber says he had to turn down rush orders for white orchid bouquets as the stock for them could not be obtained locally. Very fine Lilium lancifolium are being shown at the company's north side store. A. Lange, Harry Rowe and the Bohannon Floral Co. are all showing fine stock and are out for whatever business is coming along.

John Mangel says business is fair, with dull as well as good days. But he is evidently looking forward to busy times. As we announced some time ago, he is going to entirely remodel his store and has already put in a very fine ice box. The wood is green finished oak and it has a plate glass front with mirror back. The floor is tiled green to match the woodwork and this will show up the stock to perfection. Mirrors are also to be used around the walls and a fine marble table with solid brass frame has already been installed. The usual fine stock is on display here and we noted some particularly fine Mrs. Jardine roses. In color, size and stem this rose is undoubtedly a leader and the only fault apparent is a slight flatness which seems characteristic of the open flowers of this otherwise fine rose.

WREATH BY HENRY MORRIS, SYRACUSE, N. Y.
Pink Roses, Lily of the Valley and Galax.

Wreath of Roses and Galax.

The accompanying illustration shows a 3-foot wreath of galax, pink roses and lily of the valley. This was made to the order of the council of chiefs of the Mystic Krewe, of Ka Knoo No, the Syracuse, N. Y., carnival association, by Henry Morris. It was for the funeral of Alexander J. Brown, father-in-law of Joseph A. Griffin, the head of this association.

NEW YORK.—Business has evidently been good with William Burns, a Sixth avenue florist, who has just purchased a six-story apartment house at Riverside drive and One Hundred and Forty-third street for investment. Mr. Burns also owns the Glenham at Broadway and One Hundredth street.

THE CARNATION.

Breeding Carnations for Scent.

Carnations undoubtedly owe their popularity through the ages to the present time, more to their enchanting perfume than any other of their commanding qualities, says Montague C. Allwood in the Horticultural Advertiser (English), and no matter how much we as commercial men may scramble for size of flower, length of stem, and strength of calyx, the public, which after all is the final judge, demands perfume. If this be so, and carnations have won their high position in the public favor mainly through their famous clove scent, surely, if they are to maintain that seat of grace, there must not be a falling off in this essential quality. So that it behooves us all as nurserymen and especially carnation specialists and breeders, to see to it that, at least in our time, this divine flower does not lose its greatest charm, and sink back to be classified with those of a lower grade.

That it is most difficult to obtain a sterling novelty, good in all respects, coupled with a rich perfume, is admitted, and such should be especially valuable when secured. The point which I think there is much in and one which I expressly wish to emphasize is this, that British-raised novelties of perpetual flowering carnations are more prone to rich scent than those from across the Atlantic. I fancy I can hear some one say, "What about ritannia?" Admitted it has no scent; but seedlings from Britannia invariably have; in fact, out of many hundreds of seedlings we have from Britannia, no matter what their other weaknesses may be, scent is not one of them. Mrs. Burnett has a particularly strong scent, also the majority of its seedlings. Our new crimson variety, Black Chief, in spite of the fact that The President and Harlowarden, two scentless varieties, are its parents, has one of the richest clove scents. Lady Dainty, another of our novelties, has, perhaps, the strongest scent of all; so all facts point to an encouraging future for British-raised varieties, particularly so when compared with our contemporaries over the Atlantic. We will hope that it is the cool fresh British air which has the power to give back to the perpetual carnation this most desirable, and indeed essential, quality. There may be a little in this, and it may even be that Bush Hill Park air may have an extra portion of this persuasive influence.

Carnation Shasta.

The accompanying illustration shows the new variety, Shasta, to be disseminated next season jointly by Baur & Smith, Indianapolis, Ind., and Patten & Co., Tewksbury, Mass. The growers claim it is a pure glistening white always though it resulted from a cross between a pink seedling and Enchantress. The flower is round, moderately fringed and finely built, in size from three to 3½ inches. The calyx never splits, the stem is of good length, wiry and strong enough to support the flower erect. It comes in early and is not a cropper. It will probably make its mark as a fine commercial sort as in addition to its other good qualities, it is strong in growth, yet makes no superfluous grass. Baur & Smith have already worked up a large stock of it in anticipation of a big demand.

Carnation Cuttings Rooting Slowly.

ED. AMERICAN FLORIST:—

I find my carnation cuttings very slow forming roots. They were placed in the sand about six weeks ago in a carnation house temperature; curtains were placed from the pipes to the benches to maintain a stronger bottom heat. The cuttings look as fresh as when inserted in the sand. Is this slow rooting process detrimental to the future welfare of the plant? E. W.

Probably a little more heat at the roots would have been advisable though as the cuttings look fresh and green they are probably all right. The slow rate of rooting, if they root strongly eventually, is no detriment to the future plant.

THE ROSE.

Cut Roses for Commercial Purposes.

A paper read by Wm. G. Badgley before the Morris County Gardeners' and Florists' Club at Madison, N. J., April 14.

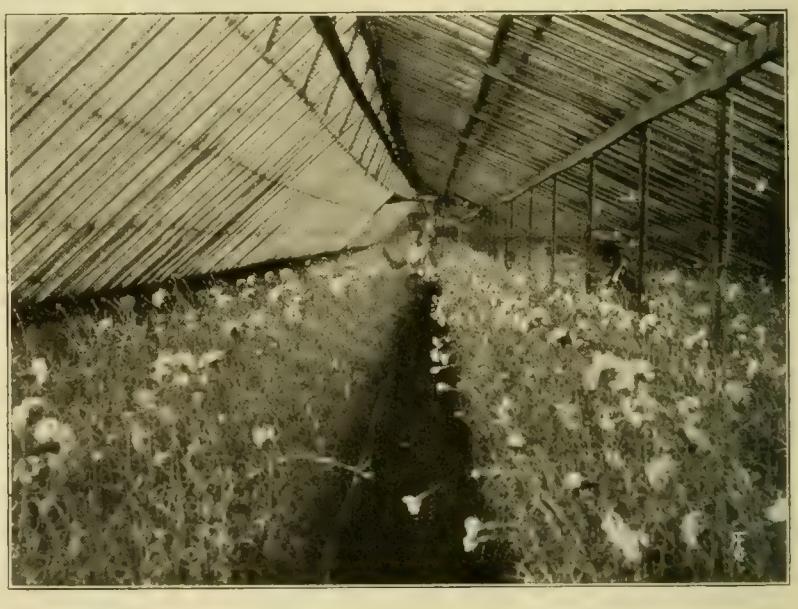
There are a few well defined principles and rules regulating planting, cutting, tying ventilating, etc., and as these rules have been thoroughly threshed out before you time and again, and furthermore, as these rules have been practically accepted and adopted by all, we will not at this time go over them. The first thing to consider by those who have not as yet started in the rose-growing business, or those who contemplate expanding, is where to locate and what style of house to build. As to location, this question should be well thought out before starting. Here are a few points to consider in this matter: A location near a railroad station should be secured, not too far from the point where the goods are to be disposed of, as selling cut flowers through a commission house or otherwise should be watched as closely as the fires in the boilers. Being located close to a shipping point will also save considerable in the way of teaming, carting supplies, shipping goods, car fares, etc., which expense would be perpetual. Select a location on property that is not too expensive for the more paid for the property the greater will be the investment and the place would have to pay that much more on the capital invested, to show the same percentage of gain as it would do on less expensive property.

THE LAY OF THE GROUND.

In securing property to erect greenhouses on consider how the ground lays, what kind of a bottom is there for the houses, and whether the cellar will be dry, what kind of soil you are getting to grow your plants in, if you are getting room enough for them to expand on, and if the property you are getting is in a place likely to increase in value. Property that is as near level as possible, with some place to run cellar and other drains into is best. Do not build where drainage cannot be arranged unless it is on gravel, as water in the cellar and standing around the place is very detrimental and discouraging. Secure, if possible, quality of soil for growing purposes of course considered, a sandy or gravelly bottom, as this kind of soil absorbs surplus water from watering and rains quickly, leaving the bottom of the houses practically dry. This will be a big advantage in combatting black spot and mildew. I would advise by all means when purchasing property for this purpose to get enough, for the probabilities are it can never be bought so cheaply again. It will be needed for expansion, and there should be enough from which to secure all soil for growing purposes.

SOIL.

Soil for the greenhouse should be prepared in the field, as nearly as possible to the conditions wanted when put on the benches. The reasons for this are that cow manure in this vicinity is getting scarce and expensive and I must say that handling this article in the form of mulching or otherwise is the nastiest and most disagreeable occupation one could be put at, aside



HOUSE OF CARNATIONS AT GEO. A. KUHL'S, PEKIN, ILL.

from the fact that it is very detrimental to the growth of the plants, if applied in bulk, as I have seen some use it, especially in the short days when it is hard under the most favorable conditions to dry out the benches. In preparing soil in the field one can, by plowing in one or two green crops, cultivating, applying lime, bone and stable manure in sufficient quantities, obtain a soil that will, by giving a light top dressing of one-half well rotted cow manure and one-half good soil, once in the spring and once in the fall, or oftener if considered best, produce better results and with less expense than by using cow manure in the manner spoken of above. I would recommend top-dressing with a good sheep manure, because this article contains nearer equal proportions of phosphoric acid, potash and nitrogen in the form of ammonia than any other manure I know of. I would use it at the rate of 200 pounds to a house 20x150 feet about once in six weeks, a little oftener in the longer days when the plants are growing more rapidly. It should be watered in; a watering with a good, strong, fresh cow manure liquid once a month is a very good way of feeding also. In light soils, where watering is done frequently, feeding can also be done to profit more frequently.

SIZE OF HOUSES

As to size of house, I have had no practical experience in building, operating or maintaining the larger or modern house, so cannot advise in this matter, but will say a few words on what I have gathered on this subject: A house from 40 to 60 feet in width, built of what is known as iron construction with concrete sides and cast iron posts set in concrete, is about what is considered perfection at the present time. A house of this kind can be built for less money per square foot of ground space covered than wooden houses of the old style, 18 or 20 feet wide. They are easier and less expensive to operate and will produce better goods under identical conditions. In the matter of repairs they are also less expensive. Less ground will be covered, as there is less space to be wasted between them. As to length of house, I would say that it makes no difference how long a house is built, if partitioned at say 150 to 200 feet intervals, providing the heating and management can be economically arranged.

To give an idea of the extremes to which some of our growers have gone, I will mention a house I have in mind which is 156 feet wide and 725 feet long. This house, according to its owners, is giving perfect satisfaction, and they have under construction at the present time a house 174 feet wide and 725 feet long. This house should be watched with interest by all. I know of another house 1,340 feet long and 60 feet wide, which I know has produced as fine Killarney roses as were ever grown, and its owner says that he would build it longer had he the ground to build on. While at the rose show in Buffalo I visited a place where there were a number of what is known as pipe construction houses, that is to say, the posts, plates, purlins, ridges, rafters, columns, trusses and joists were all made of pipes and pipe-fittings. I understand that this style of house can be put up at considerably less cost than those known as the regular construction iron houses. This style of house appealed to me as a very good one and it would pay anyone to look into the matter before building. It is put on the market by the King Construction Co.

VARIETIES

There is no doubt that the standard varieties for commercial purposes are the best, all things considered, and it is safe for the conditions of the New York market, generally speaking, to grow one-quarter white and three-quarters pink, or if you can grow a good red profitably, grow as many as you reasonably can. It is not, as a rule, the plants that produce show flowers that are always the best money-makers, but the money-makers if properly handled can be made to produce show flowers. American Beauty, of course, is a standard in its class, and no doubt will be for some time to come. This rose does not pay the small grower to handle, as it has been taken up as a specialty by nearly all the large growers, and where grown in large quantities it can be grown to better advantage, and produced more cheaply than in smaller quantities. The flowers can be handled to much better advantage when they are received in large quantities from one source; therefore one cannot realize as good an average on Beauties where his supply is small and irregular.

There has been numerous new varieties put on the market in the last few years, namely, Rhea Reid, Mrs. Potter Palmer, Mrs. Jardine, Wyndmoor, My Maryland, Queen Beatrice, Purity, White Killarney and others, and, I am sorry to say, that excepting pink and white Killarney and My Maryland, the most of them are no real improvement on what we already have, excepting, of course, that they have their value as novelties. Under favorable conditions all of these have given good results, as their breeding is good; however, there is as yet no general demand for them.

The Killarneys are worth spending a little time on, as both have proven favorites as commercial and show flowers and these roses, to my mind, are justly entitled to all the praise they have received. They are as good show flowers as were ever set up, if grown for that purpose, and the best money-makers that ever were grown. White Killarney bears the same relation to the pink variety as Bride and Bridesmaid do to Mermet, and therefore, being of the same blood and habit, each will do equally well grown under the same conditions.

CARNATION SHASTA.

Flowers Grown by Baur & Smith, Indianapolis, Ind.

CULTURE OF KILLARNEY

When taking wood from Killarney plants for cuttings, considerable care should be exercised in the kind of wood taken, as it is characteristic of this plant to drop its foliage before it attains much age, and as they will drop them as quickly or more so in the sand than they will on the plant, one should strive to make cuttings of wood that is not too old, nor yet of too soft a texture. Should the cuttings lose their leaves in the sand and look like a failure, just let them alone and attend to your watering and temperature, and, if necessary, let them stay right there for two months or more and you will find that your efforts have not been in vain. This rule, of course, applies to cases where nothing unusual or detrimental has happened, and the cuttings have simply dropped their leaves.

Planting, watering, ventilating, etc., with this rose is carried out in about the same manner and following the same rules as are customary through the summer and fall months with

other varieties, excepting cutting. This should not be done, but keep all the buds pinched back every time to the first spray of foliage from the top containing five leaflets. From such an eye, covered by such a leaf, growths will produce strong stems. Continue pinching until October 20, when it will be wise to take off about one half of the buds, and on November 1 take off the other half. Then stop pinching, and this will bring the crop in for the holidays. Owing to the fact that August, September and October in the last few years have proved to be very poor months for cut roses in the New York markets, asters, dahlias, etc., having full swing at this time, it pays much better to get roses in through May, June and July, and as Killarney is a rapid grower and the pinching process has a tendency to run it up and develop it into a plant which is plenty large enough by October 20 if planted July 5, providing, of course, that stock is in good condition when planted, the results will be better than if planted earlier.

The buds which come from a second or third growth of Killarney are far better than those taken from the first or single growth. Killarney is a free grower and is always busy, therefore it requires lots of food but not rank chemicals. It should be given small quantities and often, using a fertilizer which runs high in available nitrogen, or ammonia, in small quantities just after they have started a new growth, say when this growth is from three to six inches long, as this kind of food will have a tendency to cause the stems to run longer. Then, just before the buds start to develop, apply in small quantities potash in the form contained in Canadian unleached wood ashes. This kind of food will have a tendency to make the buds heavy and give them color. I would not advise too strongly what fertilizers to use in every case, or in what quantities, as this matter depends largely on the condition of the plants, the soil they are planted in and who is growing them. But do not use too much rank fertilizer at any time, as it is apt to cause a bad case of indigestion. Apply what can be used up promptly by the plants, be it in the form of cow manure or otherwise, as too much bulk on the benches will prevent them drying out readily, and the faster the benches dry out the more rapidly will the plants grow, and the oftener you can water, the oftener you can feed, which means growth and therefore profit.

MY MARYLAND AND RICHMOND

My Maryland has many good features. Its color and fragrance are very pleasing, the size, shape and substance of the bud are all that can be wished for, stem and foliage are good, too, but there seems to be some uncertainty as to its commercial value yet. The features of this rose which do not please, as I observe them, are that there is a little too much hybrid blood in it, that it has a sleepy tendency in the winter months, and that it is not an abundant cropper. I think, however, that when the growers become more familiar with its nature, cultural methods will improve it, and if the flower-buying public like it, it will find a place in the front ranks. For red, Richmond seems to be about the best in sight at the present time. This rose seems to have favorite localities. Boston, Philadelphia and Chicago turn out Richmonds that are marvels, and it is painful to conceive that in this vicinity we cannot do as well. Richmond is practically of no value in hot weather, as it will not keep. In the short days when it is selling for good money, it is sluggish and slow, and one cannot cut much from it just when he wants to. Then comes the spring with its growing weather, and they come along and do nicely, but by this time Ulrich Brunner and other red stock is in the market and they do not do much in the way of returns. So in this locality it does not pay as well as other varieties. What we hope to see in the near future is a rose with the stem and foliage of Richmond, head of Bridesmaid, and as free a grower as Killarney. This is worth trying for, and I hope some of our specialists will give it to us. Always remember in growing roses to strive for the three following essential qualities: A rose to please the consumer, one which the wholesaler as well as retailer can sell at a fair price and one that will produce enough flowers to make it profitable for the grower.

THE BERLIN INTERNATIONAL EXHIBITION.—(After the Gardeners' Chronicle.)

See Report in Issue of April 24, Page 641.

WHITE KILLARNEY is evidently a good keeper in addition to its other good points. When returning from his American trip, Harry A. Barnard, Hugh Low & Co.'s representative, took with him a box of this variety and the flowers were in such excellent condition on arrival that he exhibited them at the usual fortnightly meeting of the Royal Horticultural Society in London, April 20. "It found a host of admirers," he says, and "it is a rose that has come to stay."

Darwin Tulips at Hillegom, Holland.

The illustration herewith shows the exhibit at the Hillegom, Holland, flower show, of Darwin tulips by von Meerbeek & Co., of that city. These were shown in full flower April 8 and the fine palms flanking the group and the dwarfer ones arranged among the tulips give a fine, finished effect to the group that is characteristic of European shows, but too little seen in those in America. These Darwin, or mother, tulips are among the brightest and best in existence and always command admiration when shown in good order. Many are self colored and their range is a very wide one.

Narcissi in England.

Of the large trumpet varieties Empress is very fine, but here it is shorter in the stem than Horsefieldi, which latter is very hard to beat. Golden Spur and Henry Irving still hold on and Princeps is one of our best market varieties. Emperor is far and ahead the best strong yellow. The medium cupped Sir Watkin has been a prolific bloomer, very distinct.—S.

THE BERLIN INTERNATIONAL EXPOSITION.—(After the Gardeners' Chronicle.)

See Report in Issue of April 24, Page 641.

SUGGESTIONS FOR PLANT GROWERS.

Caladiums.

The earliest caladiums seen in the stores are usually poor in color with few and small leaves, the result of wintering the bulbs too dry and starting up in heat at once instead of allowing them to make a little root first or at least to plump up the bulbs. It may be an advantage to do this where an early market has to be caught, but there is not usually so good a demand for caladiums very early in the season as there is later when the cut flower supply runs short. The plants should be grown right along in a gentle heat and in as much sun as the foliage will stand; then when they are exposed in a retailer's window or in the home of the customer they will not wilt up in a day but last a reasonable time.

Crotons.

Keep the young stock well apart now and in a good light to bring out the color in the foliage. Where old plants were cut back into shape some time ago and are now starting into growth they may be repotted, removing some of the old compost from the roots and repotting into the same or even a smaller size to be again shifted later on. Even if these plants are not wanted for sale or decoration it pays to look after them well just for stock purposes. The leaves will be better and the cuttings will make better stock than from neglected stock plants. Where seedling raising is carried on grow these plants in a good light and keep them a little pinched for pot room to induce flowering and when in flower keep the atmosphere around them fairly dry.

Cyclamens.

The August-sown cyclamens are now fine stock with four and five good leaves and others forming. It is not advisable to repot these too soon, but the stock should be looked over, given a new stand and the forwardest plants arranged by themselves to be repotted before the later ones. This irregularity in the plants can always be noticed in cyclamens from the earliest seedling stages on, and it is much better to recognize it and keep them separate than to try and even them up by cultural methods otherwise. The watering can be much more easily carried out when the plants are all alike in the separate batches, for no matter how careful a grower may be in his watering mistakes are likely to occur when weak, strong and medium plants are all mixed together. In a very short time now the strongest of the autumn-sown stock will be ready for a shift, this time into 4-inch pots. The compost should be sound, fibry loam with one-eighth of old, well-dried cow manure and leaf mould and sufficient coarse sand to keep it open. Many growers have fancy preparations of soil for their different plants, with all kinds of nostrums; but for growing good plants good, sound loam is still the main standby. It causes a good rooting system, and when this much has been obtained feeding and watering are easy. An ideal house for cyclamen growing is a narrow, span roofed structure with center walk and side benches close up to the eaves. Here there is abundance of light at all times, and shading can be arranged as needed. The believer in large houses, who has gravitated into plant growing from the large cut flower growing places, complains that small houses are more liable to fluctuations of temperature and more trouble to ventilate than large ones. But plant growers have to be about the houses frequently and, with shading on in summer, it is easy to so regulate the ventilating that, in connection with frequent damping of floors and stages, the correct atmosphere can be easily maintained. From now on a regular light shade will be needed for cyclamens, and after a week or so of nursing until they get over the slight check from repotting plenty of air night and day when the weather is suitable. Late seedlings are now ready for potting from the seed pans or flats and may take the place on the shelves lately occupied by the earlier plants.

Pelargoniums.

To get the best possible results out of the somewhat small pots in which pelargoniums are grown considerable feeding is necessary and, no matter how good the soil was in the pots, the roots will, by the time they have run well through it, have exhausted a good part of the nutriment it contained. The heads of the plants will be getting large and the flower buds forming, these constituting a great drain upon the roots. A good guano is one of the finest manures to use at first and this should be changed to blood manure or soot water before it loses its effect. The color of the foliage is an indication to the experienced grower as to how the plants are for food. As long as they are deep green the feeding has not been excessive, but should the center of the growth appear yellowing (not the outside or edge of the leaves) this is a danger signal that must not be disregarded. In any case a week without feeding, using clear water only, helps the roots and keeps them active. A good layer of tobacco stems should be placed around the pots on the benches as this helps to keep green fly in check. But it will probably be not sufficient without occasional fumigation, and this must be attended to. The insects are particularly persistent in these plants, and stronger fumigating than for most other plants is necessary, provided, of course, there are no other and more susceptible plants in the same house.

To Be Done Now.

IN THE GREENHOUSES.

Watch carefully for the work of slugs in the adiantum benches and trap them in bran or cabbage leaves.

Propagate plenty of Begonia incarnata and other winter flowering species.

Keep the chrysanthemums for exhibition moving and never allow them to get stunted from insect atttacks or by getting hard in the pots.

Shift on gloxinias that were started in small pots to the flowering size. Keep them in a good light to prevent drawing.

Mark the finest flowers of herbaceous calceolarias for seed and keep them in a moderately dry atmosphere.

See that the hydrangeas have plenty of room and do not neglect either watering or feeding.

Thin the shoots on the tuberous begonias to about three or four to a plant, as they will be stronger this way than if crowded.

Prick off the small patches of fern seedlings as soon as the initial fronds appear.

OUTDOORS.

Sow plenty of mignonette, candytuft, cornflowers and marigolds for cutting.

Prepare the plant protectors and plunging material for use when it is safe to place tender stock outside.

Finish planting gladioli as soon as possible, but do not attempt the work if the soil is in a wet or pasty condition.

Thin and clean the rows of all seedling vegetables by hand early or the weeds will soon beat the plants in growth and crowd them out. Use the hoe frequently between the rows in mild weather but not if a frosty night appears likely.

DARWIN TULIPS AT THE HILLEGOM FLOWER SHOW, APRIL 8.

Exhibited by Van Meerbeek & Co., Hillegom, Holland.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50. Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

Advertising rates on application.

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Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

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ROBT. KIFT, 1725 Chestnut St., Philadelphia, P

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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Accuse not nature,—she hath done her part;
Do thou but thine. —John Milton.

W. ATLEE BURPEE & CO., Philadelphia, Pa., supplied the excellent sweet pea photographs reproduced in this issue.

The Late John Scott.

The widow of John Scott, whose sudden death was noted in our issue of April 24, desires to express to his many friends who so tenderly and lavishly demonstrated their love for him by their presence and beautiful floral mementos, her sincere appreciation of their kindness and sympathy. In her great affliction, the memory of this universal token to his life and character will remain a constant consolation.

SNOW to a depth of two feet was a Wisconsin record May 1.

W. T. MACOUN, of the Botanic Garden, Ottawa, Ont., has issued an excellent list of herbaceous perennials tested at that establishment with very useful notes on the flowering season, hardiness, etc., in that locality.

ORCHID SHOW.—Referring to the Boston orchid show, noted in our last issue, page 643, to be held under the auspices of the Massachusetts Horticultural Society next year, Secretary Rich advises us that from information already obtained he understands there will be a good representation of European orchid people present on that occasion.

THE official catalogue of the National Sweet Pea Society of England has been published. So numerous are the varieties that they fill a book of 16 pages and they are carefully arranged alphabetically. New varieties are printed in heavy type and the certificates awarded are indicated. This is to be kept up-to-date in future editions and is a very useful publication for reference by growers.

American Carnation Society.

CARNATION REGISTERED.

Baur & Smith, Indianapolis, Ind., register new carnation, Shasta. Parentage pink seeding X Enchantress. Color pure glistening white at all times. Bloom well formed and 3 to 3½ inches across. Extra free and early in blooming and does not crop. Does not split its calyx.

A. F. J. BAUR, Sec'y.

Chrysanthemum Society of America.

ED. AMERICAN FLORIST:—

The notes of President Smith in your last issue regarding increasing the membership of the C. S. A. are timely and to the point, and it is a fact that although many florists watch the reports of the different committees in the fall, still they are indifferent about joining the society or being actively interested in it. There are some, I know, who believe that all the work now being done by the different societies, such as the rose society, the carnation society and the chrysanthemum society, should be done by such sub-committees of the Society of American Florists, and I am not prepared to say but what that would be the ideal way. In the meantime, however, what should be done about it? Surely the chrysanthemum society is worth the annual dues of $2, which is all the applicant is asked to contribute. Every florist in the country, not to mention the hundreds of private gardeners and amateur growers, can find valuable information in the yearly reports.

President Smith and his committees are willing to work and make this the banner year of this society, so, brother growers, show your interest in the matter. In the current slang of the day, "It's up to you." C. H. TOTTY.

ED. AMERICAN FLORIST:—

Having read President Smith's appeal to horticulturists, private and commercial, for their support in pushing along the undoubted good work of the Chrysanthemum Society of America, I wish to heartily endorse all he says in its behalf, and I hope every lover of the queen of autumn will get in line and send in his name and annual subscription. EDWIN JENKINS.

The Way the Wind Blows.

Mark Twain says the wind blows from the north, or the south, or the east, or the west, or some point approximating in those general directions.

I see in a contemporary that Alex. Montgomery, Jr., is leaving the paternal roof tree, and starting in for himself, or in other words going into business. I wish him success when he starts, I have met the young man several times, and those who know him of course understand that he knows his business, a modest unassuming young man. It is a hard road for one who has an illustrious father, to make a mark for himself, for the brilliancy of the parent obscures the struggling light of the son, but he seems to be one of the few to have attained that distinction. I am glad he is cutting loose, for a young man's individuality is lost in a corporation. I am glad the name is to be perpetuated in a firm name. It is fitting to be so, like May, Pierson, Elliot, and many more who will take up the reins where the fathers lay them down and keep the names along in American rose growing.

Boston seems to be a great place these days. I see by a New York contemporary that E. Holmes said at the meeting of the Gardeners' and Florists' Club, that anyone with the proper facilities for handling might propagate a quarter of a million plants from one bud in two years. This is a somewhat startling statement, and I should like to hear what the rose men say about it. If there is so much money in rose growing as that, let us all throw down our present occupation and grow rose plants. Why, in three years from one bud every greenhouse in the world could be stocked with roses. I wonder if Mr. Holmes has done it or is it just theory. Theory and practice are often widely separated. The above can give points it seems to the story about the horseshoe and the doubling of the pennies. Indeed we are living in a great age.

I was much interested in the paper read by Robert Cameron on perennials; it was very interesting reading. Florists ought to read every word of it, there is always room about a florist's place for a border of such plants; many of us had forgotten about them. Having seen so many shrubs being planted, I believe there is a valuable asset in having a good border of those plants. Robert is one of those men who can talk on anything horticultural and talk sense. There are men who imagine they know, and don't know that they don't know, and it makes one weary to hear such men expounding on things pertaining to horticulture, when the limit of their knowledge is dandelions and chickweed.

Wm. Downs and wife led the members of the Gardeners' and Florists' Club of Boston on to a victorious supper. I see the ladies graced the occasion; that is one strong point in the Boston club I hear. The presence of the dear things would make the supper more enjoyable. I remember in the old days that the annual banquet was a stag party, but I am glad to see that the various clubs in the country are having the ladies grace the occasions and enjoy the good things provided. It is but right that wives and sweethearts should enjoy those annual affairs.

RAFFIA STRINGS.

Meetings Next Week.

Baltimore, Md., May 10, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Hartford, Conn., May 14, 8 p. m.—The Connecticut Horticultural Society, County building.

New York, May 10, 7:30 p. m.—New York Florists' Club, Grand Opera House building.

New York, May 12, 3 p. m.—Horticultural Society of New York, Botanical Garden.

Omaha, Neb., May 13, 8 p. m.—Omaha Florists' Club, City hall.

Rochester, N. Y., May 10, 7:30 p. m.—Rochester Commercial Florists' Association, 24 Stone street.

San Francisco, Calif., May 15.—Pacific Coast Horticultural Society.

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibition le Jardin des Tuilleries, Paris France. Abel Chatenay, secretary, 1 Rue St. Aubin, Vitry-sur-Seine, France.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scotland.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—Young woman, 10 years' experience general work in flower store, desires position. Address F. R., care American Florist, 1133 Broadway, N. Y.

Situation Wanted—As foreman and grower of high grade roses, carnations and general stock by a married man; highest recommendations as to ability, etc. Key 862, care American Florist.

Situation Wanted—As manager of up-to-date wholesale or retail flower store. Fifteen years' experience; married; age 25 and a hustler; best of reference. Key 803, care American Florist.

Situation Wanted—By Englishman as gardener on gentleman's private establishment; 15 years' experience in all branches; Illinois preferred; age 29; single; apply F. CHEESEMAN 2054 Southport Ave., Chicago.

Situation Wanted—By young Scandinavian florist as gardener on private place; have had lifelong experience and the best of reference from well-known European and American florists. Key 807, care American Florist.

Situation Wanted—By young man, single, 16 years' experience as all-around florist and gardener in Scandinavia, England, Germany and this country; am five years in charge of present position; please state wages and particulars. Key 861, care American Florist.

Situation Wanted—By an expert propagator and grower of general line of cut flowers and pot plants; German; ten years in Germany, six years in this country; can take charge; sober and steady; only good place wanted; married; 29 years old. Address B. KAEZOR, 332 Mettler St., Toledo, Ohio.

Help Wanted—Single man for fern section, experienced in forcing valley. J. M. GASSER CO., Rocky River, O.

Help Wanted—A single man for general greenhouse work. JOHN M. BOMMERSBACH, 318 N. Water St., Decatur, Ill.

Help Wanted—A No. 1 good rose grower. Address GEORGE NUTTING 109 Cotton Ave., Macon, Ga.

Help Wanted—Working foreman, grower, general stock; 20,000 feet glass; western grower preferred, good salary, apply BUTTE FLORAL CO., Butte, Montana.

Help Wanted—A man who understands the growing of roses, carnations and potted plants in the middle west; a good salary to the right man Key 805, care American Florist.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address Key 849, care American Florist.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address Key 857, care American Florist.

Help Wanted—A florist on a retail place with general stock; wages $50. per month; steady; state experience and send recommendations; married man preferred. I. L. PILLSBURY, Galesburg Ill.

Help Wanted—An all-round greenhouse man, single, who understands designing; carnations, 'mums, pot plants and general line of plants; sober, give reference also state wages with board and room. J. M. NUSSBAUMER, San Angelo, Texas

Help Wanted—Combination landscape gardener and florist, a good salary will be paid right man; European man preferred; must be up-to-date and capable of contracting. Address Key 856, care American Florist.

Help Wanted—We are in need of an all-around young florist and gardener for a small place who understands growing pot plants and cut flowers; steady work for the right man who is not afraid to take hold; good Christian, sober man preferred; board furnished; address stating salary and references to J. RINDFLEISH Beloit, Wis.

Help Wanted—Experienced commercial man as superintendent of a gentleman's private place; must be a good all-round man for under glass and outdoor gardening; flowers, lawn, shrubberies and vegetables; middle aged, married German preferred, with reference Address Wm. HENRY MAULE, 1711 Filbert st., Philadelpeia, Pa.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser. Key 799, care American Florist.

For Sale—$500 will buy the only greenhouse and florist business in one of the best counties of Illinois. Possession given after June 15. Investigate this bargain without delay. Address Key 806 care American Florist.

For Sale or Rent—Greenhouses, close to Rockford, Ill.; 10,000 feet of glass; lot 120x165; 6-room dwelling house on premises; plant just rebuilt after fire. No stock. Address EDWIN DEMPSEY & CO., Rockford, Ill.

For Sale.

Good retail store in one the best business cities of the middle west. Now clearing $2500 annually, and showing an improvement every year. Fine opportunity for a pushing man. Good reasons for selling. Address

Key 852, care American Florist.

Head Gardener.

Is open to engagement in or aronnd Chicago after December 1. Highly practical in all branches.

Key 804, care American Florist.

Wanted to Lease or Buy

Florists' place, with one to five acres of land within 50 miles of Chicago. Send full particulars, including price and terms. Address

Key 860, care American Florist.

Young Man's Opportunity

The advertiser wants a young man who has had some years' experience in practical greenhouse work to call on the greenhouse trade. Good opportunity for young man with ability to sell goods. State age, experience and salary. Address

Key 859, care American Florist.

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y.

Trade Directory

(EDITION OF 1909.)

Of the Entire Horticultural Trade of America
Is Now Ready for Mailing. Price $3.00, Prepaid.

A complete alphabetical list of all American cities, with the names and addresses of all commercial horticulturists therein. A separate list, arranged alphabetically, of every commercial horticulturist in this country. These lists are keyed to indicate the special line or lines of each establishment. The book also contains special lists, as follows:

Park Superintendents,	Horticultural Societies,*	Florists' Clubs,*	Supply Concerns,
Landscape Gardeners,	Experiment Stations,*	Foreign Houses,	Judging Scales,
Trade Associations,*	Botanical Gardens,	Catalogue Firms,	Seed Growers,
Leading Cemeteries,	Postage Rates,	Express Rates,	Statistics.

*With new officers to date.

AMERICAN FLORIST CO., 324 Dearborn St., Chicago, U. S. A.

OBITUARY.

Herman Dreyer.

Herman Dreyer, a well known and successful plant grower of Woodside, Borough of Queens, New York, died April 28, after a very brief illness of pneumonia. He was born September 21, 1859, in that part of New York now known as Seventy-seventh street and Eleventh avenue. His father conducted a market garden in that locality and after receiving a public school education Herman assisted his parents in carrying on the business. When 22 years old he removed to Woodside and started in business for himself as a market gardener, beginning his career as a florist by growing violets. He soon branched out into the growing of foliage plants and Easter stock, and abandoned the market gardening features.

In 1905 he sold his original range, which was located at Jackson and Woodside avenues and, having previously secured a tract of land about one mile further out Jackson avenue, he there relocated. In the new location he was eminently successful with palms, ferns, foliage plants and a variety of forcing stock. In addition to a range of about 75,000 square feet of glass, a handsome residence was erected and the well-kept grounds have been an attraction to those who traveled Jackson avenue, which is the main thoroughfare from Long Island City to Flushing, College Point and Elmhurst. Mr. Dreyer was highly esteemed by members of the trade throughout New York and vicinity, and none bears stronger testimony as to his worth than those who have been his near neighbors. He is survived by a wife, nee Regina Schroder, and three children, Gerald M., aged 22; Mabel, aged 18, and Henry H., aged 16 years. He was a member of Island City lodge 586, F. and A. M., the New York Florists' Club, New York and New Jersey Association of Plant Growers and the Exempt Firemen's association. The funeral was held from the family home, Jackson avenue, on May 1, at 1 p. m., many members of the above-mentioned organizations attending.

John A. Shellem.

John A. Shellem, a well-known florist of Philadelphia, died in St. Agnes hospital May 3. Deceased had been failing in health for the past six months, being unable to attend to business, which has been carried on by his wife and sons, who will continue the same. The store and greenhouses at Seventeenth and Moore streets and the large range of glass at Magazine lane and Rope Ferry road comprise the plant, in which quite an extensive business is done.

Mr. Shellem was born in Philadelphia March 27, 1850. From his youth he was always a lover of flowers, and although he became an iron moulder by trade he soon gave this up and commenced business as a florist at Seventeenth and Tasker streets in 1880. Some years later he sold a portion of his ground for a public school and erected the plant at Magazine lane. His specialties were peonies, of which he had a large stock, and a general line to supply his store trade. He raised and sent out some very meritorious plants, the most notable being the rose, Wm. R. Smith, a cross between Isabella Sprunt and Maman Cochet, a variety which has achieved great success in Europe and this country as a bedding rose. He also sent out the fine early white chrysanthemum, Early Snow, which is conceded to be the best early of its color. Queen Alexandria daisy was also improved by him, some of the stock producing extra fine double flowers. An extra large-flowered freesia of the purest white was also one of his productions. He was a member of the Florists' Club of Philadelphia, before which he was frequently a valued exhibitor. Mr. Shellem was of a genial disposition and a general favorite with all who knew him. He was never happier than when doing a favor for a friend or lending a helping hand to someone in the craft. He leaves a widow, six sons and one daughter.

The Late Herman Dreyer.

Grant Thorburn.

Grant Thorburn, a grandson of the Grant Thorburn who founded the well-known seed house of J. M. Thorburn & Co., New York, died in Paris, France, April 30, aged 81 years. Although he had been a member of the firm he never took an active part in the conduct of its affairs. In the early eighties he went abroad and much of his time has been spent in Paris. He was a son of Geo. Thorburn and a brother to the late J. M. Thorburn, who died at 117 E. Tenth street, New York, April 24, 1899. Grant Thorburn is survived by a wife, a son, Wm. H. S. Thorburn of London, England, and a daughter, who was married to a Frenchman several months ago. A grandson named Grant Thorburn resides in New York, at 69 Madison avenue.

J. C. Rossow.

J. C. Rossow, for many years a grower, formerly of Union Hill but more recently of Carlstadt, N. J., died April 29. He had been a member of the New York Cut Flower Exchange from the time of its organization and marketed his stock there. In past years he grew many fine Ulrich Brunner roses. He was over 70 years old.

CENTERVILLE, IA.—T. M. Stagner has opened a new greenhouse on South Twenty-first street.

NORTH ABINGDON, MASS.—Vandals destroyed 1,700 young trees, belonging to the Bay State Nurseries, by slashing them with knives and axes.

FARGO, N. D.—The Shotwell Floral Co. is erecting three new greenhouses each 22x100 feet. They will be used exclusively for the growing of roses and carnations.

PEORIA, ILL.—Joseph Cole has entered suit against his brothers, James and Nelson Cole, for a share of his father's estate, which is valued at $115,000.—Danforth Miller, of the landscape department of Vaughan's Nurseries, Western Springs, is here this week on business.

Fancy and Dagger FERNS $2.00 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.
15 Province St. and 9 Chapman Place, BOSTON, MASS.
WHOLESALE COMMISSION FLORISTS
Hardy Cut Evergreens and Florists' Supplies
We have the stock and can fill all orders, large or small.
FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

New Crop of Ferns
FANCY AND DAGGER
Log Mosses, Natural and Perpetuated,
Lyrata, (The New Green),
E. A. BEAVEN,
EVERGREEN, ALA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

New Crop Ferns
FANCY and DAGGER ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
EVERGREEN, ALA.

John P. Scherer, 636 Gardener St., Union Hill, N. J.
Telephone 328 L Union. Smilax, Ferns, Palm Leaves and all kinds of Green Goods.

LONG STEM BEAUTIES

Maids, Brides, Richmond and Killarney

EXTRA FANCY CARNATIONS

Big Crops. **PRICE LIST.** **Low Prices.**

AMERICAN BEAUTIES. Per doz.

Extra long	$3 00
24 to 30-inch	2 00
20-inch	1 50
15-inch	1 00
12-inch	$ 50 to 75

KILLARNEY AND RICHMONDS.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00

BRIDES, MAIDS AND PERLES.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	$ 4 00 to 5 00
Short lengths, per 100	3 00
Short Roses, our selection, in lots of 500 or more, per 100,	2 00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100,		$3 00
Fancy white, good stock, per 100		3 00
Fancy pink, good stock, per 100	$2 50 to	3 00
EASTER LILIES, per doz. $1 50; per 100		10 00
LILY OF THE VALLEY, per 100	3 00 to	4 00
SWEET PEAS, per 100	1 00 to	1 25
ASPARAGUS SPRAYS, per 100	2 00 to	4 00
SPRENGERI, per 100	2 00 to	3 00
SMILAX, per doz	2 50 to	3 00
ASPARAGUS STRINGS, per string	50 to	60
ADIANTUM, per 100		1 00
GALAX, bronze, per 1000		1 50
GALAX, green, per 1000		1 50
FERNS, per 1000		3 00

BUY DIRECT OF THE GROWERS

Bassett & Washburn,

Store and Office: 76 Wabash Ave. **CHICAGO.** Greenhouses: HINSDALE, ILLINOIS.

Chicago Notes.

W. D. Chandler, one of the old-time florists of this city, was married April 22 to Mary E. Moore, whom he had known as a girl back in his Connecticut home. Mr. and Mrs. Chandler are of an age, both having celebrated their seventy-fifth birthdays. It was Mr. Chandler who in 1875 owned the Pleasantonian Floral Parlor at the corner of State and Randolph streets. This place was named after Gen. Pleasanton, who about that time advanced his curious theory that plants would thrive better under blue glass than clear. Every alternate pane of glass in this place was of blue. It is interesting now to recall that this corner, with 160 feet fronting on State street, was then leased for only $25 per month.

An institution that should interest visiting florists as well as those in the local trade is that of the Florentine Alabaster Co., at 52 Wabash avenue. Here the entire fifth floor is given up, as its name implies, to the making of articles of a composition resembling alabaster in appearance of considerable artistic merit. Many of the best local retailers are already handling the window boxes and jardiniers of this concern. The same are also made of cement.

Chas. Handel, formerly with N. Bommersbach, of Decatur, has just closed a five-years' lease for the greenhouses of Amelia M. Schaffer, 229 Balmoral avenue. These include five houses, 25x265 feet, at present planted to carnations. Mr. Handel will assume charge on June 1 and will immediately plant the entire place to Richmond, Killarney and White Killarney roses.

E. C. Amling says he thinks that in the future for a grower to reap any profit from sweet peas, they will have to be grown as a specialty and no longer as a side issue, as most of the sweet pea men have done thus far. Mr. Amling has been showing a fine lot of ixias, also some early peonies, Officinalis rosea and O. rubra both being seen.

Geo. Reinberg has two houses of Richmond roses that are very shapely and remarkably well set with buds. They are the plants from which the flowers were cut that took first prize at Philadelphia two years ago. Some fine Cattleya Mossiæ are also seen here.

The A. L. Randall Co. has taken possession of the fourth and fifth floors of the building the firm is in. This gives the firm the entire building except the first floor and basement and a total floor area of 24,000 square feet, not including balconies.

The J. B. Deamud Co. is now receiving some very fine Winsor, White Perfection, Lady Bountiful, Aristocrat and Lawson carnations. The firm is also receiving some fine large daisies, as well as gladiolus of mixed strains.

Louis Mohn, aged 73, father of Geo. Mohn of Vaughan's Seed Store, and father-in-law of W. P. Kyle of the J. B. Deamud Co., died on Friday last and was buried Sunday in Mt. Greenwood cemetery.

The big rise in temperature on Wednesday sent all of Peter Reinberg's girls out to the carnation farm. They appeared to enjoy the opportunity to be outdoors.

Mrs. C. A. McKellar returned last Saturday from Paris, Tex., where she has been the past five weeks with her mother who was seriously ill.

Peter Reinberg has an exceptionally heavy crop of young Bride and American Beauty roses and is ready to meet any demand for his stock.

C. Swanson, 3925 Ridgway avenue, has taken out a permit to build three greenhouses at Forty-fifth street and Western avenue.

Arrangements are pending for the lease of the Chicago Carnation Co.'s retail store in Joliet by the Schiller estate.

F. J. Farney is no longer traveling for the A. L. Randall Co., but is now with M. Rice & Co., of Philadelphia.

C. A. McKellar says Cattleya Mossiæ is in good crop.

Visitors: C. A. Johnson, Chillicothe, O.; F. A. Forbes, Plymouth, Ind.

GARDENERS' AND FLORISTS' UNION.

Gardeners' and Florists' Union No. 10615 has closed shop agreements with two amusement parks, Riverview park and Forest park, where none but union men will be employed during the ensuing year.

A canvass of labor unions and union shops just completed shows that $12,428 worth of work (floral) has been bought during the past year which demanded the union label.

A question box will be a feature of the meetings of Union No. 10615 hereafter. Questions may be dropped in the box and will be answered publicly.

No union gardeners are at present unemployed.

(OTHER CHICAGO NEWS ON P. 756.)

LINCOLN, ILL.—W. H. Gullett & Sons are building a new greenhouse on Kankakee street, between Tremont and Peoria streets.

WILLIAMSBURG, IOWA.—F. O. Harrington has shipped 1,000 goldfish to the Iowa Seed Co. of Des Moines, reserving 2,300 in a tank for future sale.

ST. PAUL, MINN.—Andrew Lauritsen, has filed a petition in bankruptcy in the federal district court. His liabilities exceed his assets by about $2,000.

Chrysanthemums

The Novelty of the Season.
Pink, $1.00 per bunch; Yellow, $1.25 to $1.50 per bunch.

Killarney Fancy, selected. The best grown stock in the United States. Must be seen to be appreciated.

American Beauty

Coming in splendid supply.
Also getting in nice lot of short to medium **Perles.**

Carnations in good supply and all choice varieties.

Also full supply of all other **Seasonable Cut Flowers.**
We have the goods and facilities for taking care of your cut flower trade.

A. L. RANDALL CO., 19-21 Randolph Street, Chicago
Phone Central 1496.
Private Exchange All Departments.

Our Ready Reference Catalogue of Florists', Growers' and Nurserymen's Supplies always gladly sent on request.

St. Louis.

WEATHER VARIABLE.

The first part of the week was warm and sultry and one had the idea that the summer had started, but a change came on Thursday and on Friday morning overcoats and wraps were in order. This variety of weather has caused a delay in the planting out of gardens and lawns, but it is to be hoped that it will warm up and the weather become normal. Stock has become somewhat scarcer, although prices have not been very high all the week; they stiffened on Saturday. Colored carnations became scarce, though considerable white and Enchantress were cleaned up at low figures. Sweet peas are quoted at 35 to 50 cents. Considerable outdoor lilac is in, some of it nipped by the frost. Quite a few Lilium Harrisii and callas are in the market.

NOTES.

Young & Sons will do the planting at Delmar gardens. There is a new feature this season in a sunken garden which will be elaborately decorated with foliage and flowering plants.

Max Rotter, North Broadway, will shortly leave for Europe. He will visit Germany and spend the summer there.

At the Florists' Club meeting this week the transportation committee for S. A. F. matters will make its reports.

Visitor: J. Meiklejohn of H. Frank Darrow, New York.

W. F.

Omaha.

On April 28, about 5 a. m., we had the worst hailstorm ever known in this locality, especially on the north side of the city, taking in Paul Paulson, who lost 8,000 feet out of 10,000 feet of glass, A. Donaghue who lost about 30,000 feet, Hess & Swoboda, about 50,000 feet, Geo. Zimmers about 4,000 feet, Chas. Edwin about 20,000 feet, Paul Floth about 12,000 feet, J. W. Arnold about 6,000 feet, Sprague Street Greenhouses about 2,000 feet, Krug's Park Greenhouse, 1,500 feet, and S. R. Faulkner 2,000 feet. The south side growers had very little damage and those at Council Bluffs did not suffer much. Worst of all, it turned into cold rain and heavy wind and the stock will suffer immensely.

The night of April 30 to May 1 did thousands of dollars' worth of damage to A. Donahue, Hess & Swoboda, C. Ederer, P. B. Floth, P. Paulsen, J. W. Arnold, and in fact to all the north side florists, as on the evening of April 30 a strong cold wind with snow set in and the thermometer dropped to 25°. The above mentioned had almost all their glass broken April 28. It froze almost everything. The roses did not suffer as much as the carnations; bedding plants are all right with the exception of soft stock. It is a pitiful sight to look at the houses and stock. Hundreds of dollars' worth of muslin was bought to protect from the cold, but it helped very little. It seems the Chatenay, Richmond and Killarney roses stood the best. It will take close to 150,000 feet of glass to replace all the glass broken April 28, and it will take months of hard work to replace it.

GRIPPE.

Cleveland.

PRICES LOW.

The past week has been nearly a repetition of the week previous, both in weather conditions and business. Although Monday's sales were fairly good, prices were very low, which alone made it possible to move stock. Saturday and Sunday's business were very good, and had Easter prices prevailed, the holidays' record for high sales would have been broken. As it was it nearly reached that mark. By 9 o'clock Saturday morning there was not a good carnation to be had, and some of the buyers who waited too long had to wait until the late afternoon shipments for their carnations. Prices were a trifle in advance Saturday and Sunday, owing to short cut in carnations on account of the dark and cloudy weather. Everything sold up clean by Sunday noon. Rose sales were again all the rage this week. Good eastern fancy fern is now on the market at $2 per 1,000. Bulbous stock has not been overabundant this week, and calls for same not very great. Callas, Easter lilies and white roses had good call Saturday and Sunday.

NOTES

The Baker-Bradley wedding Wednesday in Lakewood was one of the season's most beautiful home weddings. As a setting for the ceremony the broad porch facing the lake was enclosed and trimmed as an arbor with trailing vines and palms and clusters of Killarney roses. An altar in the living room had a background of white snapdragon, lilacs and palms. The halls were decorated with palms, American Beauty roses and baskets of tulips. The flower girls carried forget-me-nots. The maid of honor carried Mrs. Jardine roses. The bride wore orange blossoms and carried a bouquet of white Spanish iris, lily of the valley and orchids. Smith & Fetters had the decoration and furnished palms, etc.

It is with sincere regret we announce the death of Mrs. Smith, mother of Frank Smith of Smith & Fetters. She died Sunday afternoon at her home on Russell avenue. The services were held Tuesday afternoon at 1:30 p. m. at her late residence. The remains will be sent to her old home in Bristol, Conn., for burial. We extend our heartfelt sympathy to Mr. Smith in his hour of grief.

F. J. Stehle, Lorain, suffered severely from last week's storm the loss in glass being so great that he missed several of his regular shipments of peas.

Mrs. Lamborn, wife of L. L. Lamborn, Alliance, is in Europe, making an extended tour, while her daughter is visiting friends in Kansas City, Mo.

Cleveland Florists' Exchange is showing a fine lot of orchids, which are selling at 35 to 60 cents each.

Isaac Kennedy, West Park, reports that last week's storms again caused considerable loss.

G. L. Loeffelbein has been sick a long time but at the last report he was a little better.

Ella Grant Wilson reports her stock and greenhouses are again in good shape.

C. F. B.

Give Us a Trial. We Can Please You

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

GIRARD, O.—Wm. Gerke has moved into his new house on Washington avenue, next to the greenhouse.

BISMARCK, N. D.—R. D. Hoskins has begun work on his new greenhouse, which is to be modern in every respect.

HOLLYWOOD, CALIF.—The floral parade on May day which wound up the flower festival was the most brilliant and beautiful ever held in this part of the country.

FARGO, N. D.—It is proposed to build and run a greenhouse in Island park for providing cut flowers and bedding stock. Some of the old boilers now at the pumping station may be used for heating.

LOS ANGELES, CALIF.—The horticultural commissioners are supplying the residents with a liquid wash with which to spray their rose bushes and other plants that are infested with the common green aphis.

GALVESTON, TEX.—A number of prominent florists of this state are organizing a $50,000 company for the growing of flowers, palms and tropical plants on a large scale, and for this purpose propose to purchase a large tract of land on the island.

LOS GATOS, CALIF.—The May Day floral carnival this year was the most successful ever held in this city. A great many exhibits of cut flowers, decorative plants and floral designs were made by the dealers, while the amateurs gave a beautiful display of wild and garden flowers. Prizes ranging from $1 to $20 were awarded.

ST. LOUIS, MO.—Henry Russe stopped in front of 3869 Folsom avenue with a wagon laden with flowers which he offered for sale. Four negroes took a hand in the bargaining. "Ah wants er gemeranian," said one. He bought two or three other plants and tendered a $5 gold piece. Russe drew forth a capacious bag containing $100 in bills and change, but he could not break the five so he put the bag back into his coat pocket and went into a store. The one negro got his change and the other three decamped. A little later Russe discovered that his bag and the $100 had been slipped from his pocket. The police are after the negroes.

Extra Fancy Carnation Blooms

Cut fresh every day, $2.00 per 100. Special prices on large lots.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., **Joliet, Ill.**

REINBERG'S ROSES

Outlast Any Others

AMERICAN BEAUTIES

	Per doz.
Long stems	$4.00
30-inch stems	3.00
24-inch stems	2.00
20-inch stems	1.50
15-inch stems	1.00
Short stems	.75

	Per 100
Richmond	
Select	$6.00 to $8.00
Medium	3.00 to 5.00
Killarney	
Select	6.00 to 8.00
Medium	3.00 to 5.00
Mrs. Marshall Field	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid, Bride	3.00 to 6.00
Chatenay	3.00 to 8.00
Ivory	3.00 to 6.00
Perle, Sunrise, Select	3.00 to 8.00
Roses, our selection	3.00

CARNATIONS

$2.00 to $3.00 per 100.

Easter Lilies	$1.50 per doz.
Callas	1.50 per doz.
	Per 100
Tulips	$4.00 to $5.00
Valley	3.00 to 4.00
Asparagus Plumosus Extra quality, per bunch	50c to 75c
Fancy Ferns, per 1000	$5.00

Give your customers roses that keep well and you will keep your customers.

PETER REINBERG

35 Randolph St., CHICAGO.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

— CONSIGNMENTS SOLICITED. —

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

Wholesale Flower Markets

ST. LOUIS, May 5.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Ivory	2 00@ 4 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 6 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 8 00
" Alice Roosevelt	2 00@ 6 00
Carnations, fancy	2 00@ 2 50
" common	75@ 1 50
Lily of the Valley	3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $3 00	
Smilax	12 50@15 00

CINCINNATI, May 5.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb, 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, May 5

Roses, Beauty, special	3 00@ 4 00
" " fancy	2 00@ 3 00
" " shorter	50@ 1 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
" Short	2 00@ 3 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	10 00@12 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Violets	40@ 50
Asp. Plumosus strings, each	40@ 50
Ferns, per 1000	2 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	15 00

MILWAUKEE, May 5.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodils	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, " "	35
Ferns, Common, per 1000	3 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	1 00

	Per 100
Killarney, select	$ 8 00
Medium	$3 00 to 5 00
Mrs. Jardine, select	8 00
Medium	3 00 to 5 00
Uncle John, select	8 00
Medium	3 00 to 5 00
Bridesmaid and Bride, select	8 00
Medium	3 00 to 5 00
Chatenay, select	8 00
Medium	3 00 to 5 00
Richmond, select	8 00
Medium	3 00 to 5 00
Carnations, fancy	2 50
Good	1 50 to 2 00
Easter Lilies, short	10 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Violets	1 00 to 1 50
Valley	3 00 to 4 00
Daffodils	3 00 to 4 00
Callas	12 00 to 15 00
Asparagus Plumosus Extra quality, per bunch	75c
Fancy Ferns, per 1000	$ 2.50

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, **ST. LOUIS, MO.**

Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Chicago.

CARNATIONS SCARCE.

Last week all kinds of cut flowers were plentiful and the market was dull and lifeless. But on Saturday a turn was taken for the better, the supply of carnations shortening up on account of the bad weather of the previous days. The clear weather succeeding the storm also strengthened the demand and by Saturday carnations were selling at $3 per 100. Enchantress was the one variety that was in good supply. Roses, including American Beauty, stiffened in price in sympathy with the market for carnations. Good callas are selling well, though many poor ones are seen. That is bringing down the average returns to growers. Harrisii lilies are one of the scarce items. Sweet peas are of good quality and are selling well, especially so as violets are practically over for the season. There are Dutch hyacinths, white tulips and a few daffodils on the market, but bulb stock generally is slow sale. Common ferns have advanced to $4 and $5 per 1,000. There are plenty of Asparagus plumosus and A. Sprengeri sprays, but asparagus strings are rather scarce as are also strings of smilax.

GREENHOUSES WRECKED BY STORM, AT HEIM BROS., BLUE ISLAND, ILL.

George and Edward Heim in Foreground.

STORM DAMAGE TO GREENHOUSES

The greenhouse property in and near the city that suffered serious damage on the evening of April 29, was considerable. Probably the heaviest damage was done when lightning brought down the 85-foot chimney of the N. C. Moore Co., of Morton Grove. The entire boiler shed was entirely demolished, as was also all the machinery in it, including a new gasoline engine just installed. One greenhouse, 22x115 feet, was also ruined. Considerable glass was lost in other houses by flying bricks and the high wind that prevailed at the time. It is estimated that it will take about 400 boxes of glass to repair the damaged houses, and the entire money loss to the establishment is estimated at about $4,000. Fortunately most of the bedding stock was uninjured.

Plant B of the Poehlmann Bros. Co. suffered considerable damage entirely from the wind, which blew with hurricane force, coming with the suddenness of a gust. Considerable glass was lost along the whole west side of the range, the ends of some of the greenhouses being blown entirely out. About 5,000 panes of glass were blown out. One of the new structures that did not yet have the glass in was badly wrenched.

Both wind and hail were responsible for the very heavy damage to the establishment of Heim Bros., at Blue Island. Hail came first and broke a great deal of glass and the heavy wind storm that followed demolished the brick boiler shed and two greenhouses, each 28x225 feet. Another house of the same size was so badly twisted that it will have to be torn down and rebuilt. Fortunately neither boilers nor machinery were damaged, but the loss to growing stock is heavy. There were 5,000 rose plants in 4-inch pots, hardly one-quarter of which can be saved. Much of the bedding stock was also ruined. All told Edward Heim figures the firm's loss at from $4,000 to $5,000, only partially covered by hail insurance.

Lightning struck the smokestack of H. P. Gerhardt's greenhouses at Glenview, and this crashing down on the middle house opened a pocket which let in the high wind, which tore out large sections of the frame work in all of the houses. A freeze-up following lost Mr. Gerhardt $1,500 worth of bedding stock.

The conservatories at Garfield park suffered seriously from the storm. This last storm took out nearly 700 24-inch panes of frosted glass. The propagating houses suffered no damage whatever, but the hotbed sash were blown about with considerable loss of glass. About 25 sash were entirely destroyed.

Frank Oechslin had a chimney blown from his cold storage house and some glass broken. The entire loss, including some plants, is about $300.

The greenhouses of St. Mary's cemetery at Evergreen Park suffered little damage, but several sheds were entirely blown away.

APRIL WEATHER.

April, according to the government's monthly record, had only three clear days, 14 partly cloudy days and 13 cloudy ones. There were 16 days in which .01 inch or more of precipitation occurred. The total precipitation for the month was 7.73 inches, or an excess of 4.83 inches as compared with the average precipitation of this month for the past 39 years. In some places near this city many thought the wind reached its highest velocity on April 29, but the records at the weather bureau show the highest velocity for five minutes to be 60 miles per hour on April 7. The highest temperature was 74° on April 5 and the lowest 25° on April 10. The mean temperature for the month was 45.1°, or a deficiency of 1.2° as compared with the average mean for the past 39 years. Killing frosts were experienced April 8, 9 and 10, heavy frosts on April 23 and 26 and light frost on April 22.

HORTICULTURAL SOCIETY

A meeting of the executive committee was held May 3, J. C. Vaughan in the chair. It was a banner meeting, for in addition to the chairman all the members were present, namely, W. N. Rudd, J. B. Deamud, Aug. Poehlmann, Geo. Asmus, J. H. Burdett, Leonard Kill and Carl Cropp. It was decided to have a flower show in the first part of November and Messrs. Rudd, Poehlmann and Cropp were appointed a committee to confer with the committee appointed by the Florists' Club to co-operate with the society in the matter of a fall exhibition. Messrs. Asmus, Kanst and Deamud were appointed a committee on preliminary premium list and Mr. Cropp a committee of one to secure details of plans for floor arrangements and report to the committee. A prize of $50 was authorized for the best flower show poster design.

(OTHER CHICAGO NOTES ON P. 753.)

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.
21 Wabash Avenue, CHICAGO.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WEILAND & RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

Long Distance Phone, Central 6004.
Winterson's Seed Store
45-47-49 Wabash Ave., CHICAGO.
Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.
Just received—a fine lot of
BAY TREES, Perfect Shape,
In Standards, Pyramids and Half Standards.
Have some fine
BOXWOOD
Left, in Bush and Pyramidal Forms.
Can still supply CALADIUMS and TUBEROSES, A1 stock.
SUPPLY CATALOGUE FREE

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

"THE BUSIEST HOUSE IN CHICAGO"

Find Where to Get Your Decoration Day Orders Filled

J. B. DEAMUD CO.
51 Wabash Ave., Chicago.

Cut Flowers ⚜ E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO, May 5.

Roses, Beauty, extra select		4 00
" " 30 in		3 00
" " 20 to 24 in	1 50@	2 00
" " 15 in		1 00
" " 12 in		75
" " Short		50
		Per 100
" Bride, Bridesmaid, select	5 00@	8 00
" " medium	3 00@	5 00
" Chatenay, select	5 00@	8 00
" " medium	3 00@	5 00
" Golden Gate, Uncle John	3 00@	8 00
" Kate Moulton	3 00@	8 00
" Killarney, select	5 00@	8 00
" " medium	3 00@	5 00
" Mrs. Marshall Field, select	6 00@	8 00
" " medium	4 00@	5 00
" Perle	5 00@	8 00
" Richmond, extra select	6 00@	8 00
" " medium		5 00
Carnations	2 00@	4 00
Callas, per doz.	1 50@	2 00
Cattleyas, per doz.		6 00
Daisies	1 50@	2 00
Gardenias, per doz		6 00
Irises	6 00@	8 00
Lilium Harrisii per doz.	1 50@	2 00
		15 00
Lily of the Valley	3 00@	4 00
Pansies	1 00@	1 50
Sweet Peas	60@	1 25
Tulips		3 00
Violets, single	50@	75
" double	50@	75
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	6 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		4 00
Galax, green, per 100 15: per 1000		1 00
" bronze, per 100 15: per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50-lb. case		5 00

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders ——given prompt attention.——
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

The Benthey - Coatsworth Co.

35 Randolph St. **Wholesale Florists** CHICAGO.

NOTICE!

Manhattan Flower Market WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

STOCK VERY CHEAP.

The weather was the controlling factor in the business of the past week. The market on the first three days was rather listless, but that was only the beginning of sorrows. On April 29 there was an old-fashioned snow storm, one of the kind that would have done credit to Newfoundland or Nova Scotia in the month of March. Running the gamut through hail, sleet and pouring rain, the week closed in discomfort and gloom. Of a necessity there was more business on Saturday, but stock sold very cheap, in spite of the fact that so much dark and cold weather was shortening the supply, particularly in tea roses. We saw long stemmed red roses, two feet and over, sold on the streets on May 1 by the armful, at least the vendors had armfuls of them. They started the price at ten cents each, but the ways of the peddler are well known. Cattleyas were the only stock that brought a price commensurate with expectations, running from 60 cents to in some instances $1 each. During the week there were a few weddings but all the stock they took made no appreciable impression in the wholesale district.

NOTES.

Moving day brought a number of changes of location in the wholesale district. Gunther Bros. moved from 114 to 110 W. Twenty-eighth street. It is likely that Russin & Hafing, the supply men, who now occupy the upper floors of 114, will hereafter also use the store vacated by the Gunthers. In the Coogan building, Twenty-sixth street and Sixth avenue, B. S. Slinn, Jr., and A. Sauter, who have occupied the same store on the ground floor, have moved up one flight and are now sharing space in the large room occupied by Perkins & Nelson.

The next monthly meeting of the Florists' Club will be held in the Grand opera house, Twenty-third street and Eighth avenue, on the night of May 10. Secretary Young announces that Patrick O'Mara will read a paper prepared by the venerable Chas. Allen of Floral Park, on "Plant Development." As Mr. Allen is, unfortunately, at present in ill health, it will be impossible for him to attend in person and read the paper himself; hence Mr. O'Mara has kindly consented to read the paper at that meeting.

Miss Billie Burke, totally surrounded by flowers, left for Europe April 28 on the Lusitania. If all the bouquets that were sent her had been put in her stateroom the little actress would have been crowded out. Almost every well-known actor and actress playing in the city was in the procession that went to her cabin, and the room was completely filled with them and with flowers when four men appeared bearing a floral ship, about eight feet long, and bearing the bold device "Lusitania."

Joseph G. Leikens, with stores at Fifth avenue and Fifty-sixth street, the Belmont hotel and at Newport, R. I., has secured the flower store in the Plaza hotel, having taken possession May 1. Mr. Leikens is an enterprising young man and is to be congratulated on the acquisition of this valuable privilege.

It is expected that the new Manhattan Flower Market, 46 West Twenty-eighth street, will open for business on May 8. The store is commodious and convenient and the character of the men behind the venture promises well for its future.

On April 30 counsel for the Retail Florists' Association secured the conviction of four boys, charged with vending flowers on the streets without licenses. They were fined $2 each.

Geo. D. Baker, bookkeeper for Ford Bros., is ill, but it is hoped that he will soon be able to resume his duties at the store, where he is greatly missed.

The Flatbush carnation growers are waiting for better weather to begin field planting.

Visitors: A. N. Pierson, Cromwell, Conn.; Geo. Watson, Philadelphia.

Buffalo.

CARNATIONS SHORT.

Weather the past week has been what might be expected in February or March, cold rain and heavy snows, the changes being so rapid that we could shovel snow one day and within 24 hours mow the lawn. With conditions such as that trade has not been good, but stock has been plentiful, carnations alone showing a tendency to scarceness. Society has not been very busy the past two weeks. Several weddings of small proportions gave a little work. One wedding April 27, while not large from a decorative point, gave S. A. Anderson an order for some very elaborate bouquets, lily of the valley, Killarney roses, orchids and sweet peas being used in the different bunches which were beauties and the arrangements entirely new. Bargains on Saturday have been regular since Easter in violets, roses and carnations for one week. It is a question whether a bargain each Saturday does not make some wait and see what they can get and thereby make trade quiet for the preceding days. In the case of violets they are always wanted for Sunday and at a low price for strictly fresh flowers the sale is very large.

RETAIL STORES.

The coming week will see the opening of the new retail store of Wm. Stroh and Arthur Beyer. Also the removal of J. G. Pickelman from his Washington street store to a new location on Genesee street. Joseph Sangster, who had a store on Jefferson street, has removed to the corner of Jefferson and Utica in a larger store and a better location. He is in what is termed Northeast Buffalo and a rapidly growing locality.

Superintendent Filer of the forestry department has postponed further work on the trees until the weather gets more favorable. Park Superintendent Seymour will give us more flower beds and a better arrangement than ever before if the appropriations that he asks for are allowed.

Wm. F. Kasting, as one of the commissioners for the widening of Elmwood avenue, has completed the work and the awards were very satisfactory.

J. B. Wiese, the czar of the Chippewa market, will depart for the old country with his daughters in about four weeks.

Wm. Sievers, who is out on Genesee near Jefferson, has fitted up his store and if trade keeps up will have to enlarge.

Visitors: Harry Balsley, Detroit, Mich.; Chas. S. Ford, Philadelphia, Pa.

BISON.

Providence, R. I.

TRADE QUIET.

Business has been quiet for two weeks and stock has fallen in price, carnations and roses being abundant and good. Roses wholesale from one to five cents for excellent quality. Carnations bring one to two cents.

The local Florists' Club, as already noted, had a couple of heated sessions recently over the matter of the Agricultural College wholesaling their carnations in this city, thereby being in competition with the trade. Direct charges of bad faith were brought against Prof. Wheeler of the college, it being claimed by the club members that he had promised in the past that he would not allow his product to be sold here. The matter was given wide publicity in the papers but thanks to good fortune more than good intent, the affair has been settled without much harm having been done the florists or Prof. Wheeler. Mr. Wheeler was invited by the club to attend the recent meeting and explain his position, which he satisfactorily did, and gave the members the assurance that the trade would not be bothered in the future. And now all is serene again.

Arbutus from Cape Cod has been received daily by John F. Wood, who makes a specialty of this flower, receiving very heavy consignments at times and selling them as low as 10 cents per bunch, regular price 25 cents.

T. J. Johnston & Co. have a new bas-relief sign of copper-finish metal outside their window, about as fancy an affair as can be seen in town.

The Rhode Island Greenhouses, Pawtucket, are for sale at auction this week. This range has a history of misfortune and hard luck that would send many proprietors to their final rest. According to experts the houses were laid the wrong way and have failed to deliver a winter crop from the start. Money was not spared in their construction and the best of everything was obtained by Harrison & Storer, the original proprietors. But the affair was a loss from the beginning. A few years ago J. F. Barclay secured them and left his home town in New York state to succeed Mr. Millar. He grew fine greens exclusively the past two seasons, which was the only thing the houses seemed adapted to, but the expense of maintenance was too great and he had the sympathy of every grower who understood his handicap. Houses that cost probably $25,000 will go under the hammer for as few hundreds this week.

M. M.

WASHINGTON, D. C.—Listing their debts at $2,803, J. M. Hammer & Sons, 64 Florida avenue, filed a petition in voluntary bankruptcy April 28. They say their assets are worth only $523. A number of foreign concerns are among the creditors listed. They are Jacs Smits, of Naarden; H. Zipp & Co., Leisse; C. J. Speelman, of Sassenheim, and C. Kuer & Son, of Hillegom, all Holland.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave. & W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising.

V. S. DORVAL, Secretary.

J. K. ALLEN,
Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
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WHOLESALE FLORISTS,
44 West 28th Street, New York City.
Phones, 798 and 799.

HENSHAW & FENRICH
WHOLESALE FLORISTS
44 West 28th St., Phones: 325 and 5583 Madison Square. NEW YORK.
Our Specialty is Everything.
CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY
WHOLESALE FLORISTS
J. J. COAN, Manager. Consignments Solicited.
Telephone 6237 Madison Square.
39 West 28th Street, NEW YORK

Alexander J. Guttman,
THE WHOLESALE FLORIST OF NEW YORK
34 WEST 28th STREET
PHONES, 1664-1665 MADISON SQUARE
ENOUGH SAID

A. L. YOUNG & CO
WHOLESALE FLORISTS,
54 West 28th Street, NEW YORK.
Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

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CUT FLOWERS
Wholesale Plantsmen and Florists.
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All flowers in season. Consignments of first-class stock solicited.
Telephone 4626 and 4627 Madison Square.

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,
Wholesale Florists,
Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, May 5.

		Per 100
Roses	Beauty, special	10 00@15 00
"	" fancy	8 00@10 00
"	" extra	5 00@ 6 00
"	" No 1	4 00@ 5 00
"	" No. 2	2 00@ 3 00
"	" No. 3	1 00
"	Bride, Bridesmaid, special	5 00@ 6 00
	extra and fancy	4 00@ 5 00
	No. 1	1 00@ 2 00
	No. 2	50@ 1 00
"	Killarney special	6 00@ 8 00
	extra and fancy	4 00@ 6 00
"	Richmond	50@ 5 00
Carnations	fancy and special	3 00
"	common	50@ 1 00
Callas	per doz.	40@ 50
Cattleyas		50 00@75 00
Daisies		50@ 1 00
Gardenias	per doz.	1 00@ 4 00
Lilac, Cut	per bunch	75@ 1 00
Lilium Longiflorum		3 00@ 5 00
Lily of the Valley		2 00@ 3 00
Mignonette	per doz.	20@ 50
Narcissus		50@ 2 50
Snapdragons (Antirrhinum)		50@ 3 00
Stocks (Double white)	per doz	40@ 75
Sweet Peas	per doz bunches	20@ 75
Tulips		50@ 2 00
Violets		15@ 35
Asparagus	doz. bunches	1 50@ 2 50
Smilax		10 00@15 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.
Wholesale Florists,
56 West 26th St. NEW YORK.
Opposite N. Y. Cut Flower Co.
Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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Receivers and Shippers of
Fresh Flowers
48 West 28th St., NEW YORK.
Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,
Wholesale Commission Florist
55 and 57 West 26th Street,
Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT
WHOLESALE COMMISSION.
American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.
57 West 28th St., NEW YORK CITY
Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan
WHOLESALE FLORIST,
Telephones: 3532 and 3533 Madison Sq.
39 West 28th St., NEW YORK

Young & Nugent,
Telephone, 2065-2066 Madison Sq.
42 West 28th St., New York
To out-of-town Florists: We are in the Heart of
And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"
Centrally located between the two markets.
CHARLES MILLANG,
Wholesale Florist,
444 Sixth Avenue, cor. 27th St.. NEW YORK.
Consignments Solicited
Telephone 7062 Madison Square.

Philadelphia.

A SHORTAGE OF STOCK.

There has been quite a shortage in the stock coming in the past week, carnations falling off all at once. The warm weather of a week ago, followed by the decidedly chilly spell which at this writing is still on, there being ice in the gutters this (Monday) morning, has held back the crop so that everything in the carnation line sells up clean every day at good prices, $3 being about the figure for most stock. Roses are still very plentiful. American Beauty, large and small, is again a factor. The specials are in full supply at $2 and $2.50 per dozen. A few My Maryland are now coming in, and as the cuttings are all rooted quite a few choice flowers are looked for soon. At Myers & Samtman's, Chestnut Hill, 60,000 plants have been raised from a stock of 1,200 since last November and all are sold; this is surely a record. Easter lilies and callas are plentiful and cheap. Sweet peas and snapdragon are factors and sell well. There appears to be an increasing demand for lily of the valley, the public never tiring of its form and fragrance. Violets are almost done, and there are few left, but one more hot day will finish them. Blossoms are now in good demand; apple blossoms were in their prime last week, the cool weather bringing them along slowly. Dogwood, just in, is a good seller, being always popular with the public.

NOTES.

The feature of the week in commission circles was the Keegan failure, some of the firms being hit pretty hard. The proposition to pay 25 per cent was raised another 25 after the meeting of the creditors and an inspection of the books. An offer has been made for the business as a going concern, and this, together with newly discovered book accounts, is to pay the additional 25 per cent.

The shipping trade is reported good and a great relief to the overstocked market. The Niessen Co. says its out-of-town customers are liberal buyers, taking advantage of the low prices and pushing business with the low figures they are able to offer. The dwarf gladioli are a novelty here with choice American Beauty and Killarney roses.

The Florex Gardens are taking orders for American Beauty roses with any length of stem. They say the results from the large house are most satisfactory, and the preparatory work on the new one is so far advanced that erection will soon commence.

The sympathy of the trade goes out to Mrs. Shellem and her family in their great loss, Mr. Shellem being a popular and valued member of the craft. A short sketch of Mr. Shellem's life is given in our obituary column, page 752.

Harry Bayersdorfer and wife sailed on Thursday on the Prince Henry Wilhelm for the annual tour of the European cities in search of novelties for the coming season.

Habermehl's had the decorations for the Grant dinner, which were very elaborate, all the choicest and best stock now on the market being used in large quantities.

E. Reid is to the front with American Beauty and Kaiserin roses. His New York violets are done for the season, which has been an unusually good one.

Wm. McKissick & Bros. feature American Beauty roses. Several of their growers are in crop and the stock is certainly A1. My Maryland is also offered. K.

WAYNE, PA.—Howard Clark is about to build two new greenhouses, each 18x100 feet and potting house 20x30 feet.

Boston.

PRICES BETTER.

Considering the weather conditions business has been as brisk as could be expected under the circumstances. The season which was already backward has been further handicapped by the low temperature and winter-like rains. Several frosts through the week set back whatever advancement that had been made in outdoor work. Stock opened up well the beginning of the week, but with only one sunny day staple lines shortened up rapidly and prices advanced materially. Carnations are shortening up gradually and we look for better prices from now on. Carnations at $1 per 100 have hitherto been out of the question at this time of year, but we find quantities not worth more and no more is expected for them. The best varieties bring $3. Roses, with the exception of American Beauty, are higher in price, though with little corresponding improvement in quality. A line of excellent Chatenay is being distributed by several growers. Richmond is running somewhat better, but too much attention has been given to the length of stem instead of strength where it would be more appreciated. A few good Carnots and Bridesmaids are on hand but the choice lies with the former varieties. Violets are still seen in scattered sections and these are to be cleared up during the present week. Good lily of the valley is decidedly scarce. Gardenias are flocking in from all points and are selling well. First-class blooms are not obtainable anywhere among the local growers. Gladioli have appeared and demand good figures. Sweet peas have suffered under the weather perhaps more than other stock and the scarcity of good flowers is regretted. Hydrangeas and Dorothy Perkins roses are the most attractive plants.

NOTES.

Thos. Roland, the plant specialist, is distributing some superb Perkins rambler roses that were late in flowering. They are in remarkable condition and distinctly superior to the stock of this plant at Easter, showing no effects of early forcing, and in color and finish are ideal. Maronia, a newcomer among the commercial plants, is also being marketed, and although a high-priced novelty has met with a hearty welcome.

J. S. Manter, the sales agent at the Park Street Market, is showing an excellent crop of Mme. Chatenay roses, the product of the Exeter Rose Conservatories, at Exeter, N. H. This is the concern which has steadily backed this rose, and while one of the first of its growers they refuse to abandon it, and the greater part of the establishment is planted with it, yielding a steady output right through the season.

Norris F. Comley, who in the past has achieved much fame as a violet grower, has attained remarkable success with his sweet peas this year. A large portion of his plant at Lexington is devoted to this stock and his daily shipments for several weeks have averaged 15,000 blooms.

Henry M. Robinson of the firm bearing his name is away on an extended southern trip which will occupy three weeks, devoted to both business and pleasure.

B.

SUGAR CREEK, PA.—H. C. Garrard is building a new greenhouse 17x70 feet.

NORTHFIELD, MASS.—Supper and a reception were given April 28 to celebrate Chas. W. Matoon's fortieth anniversary as church florist at the Unitarian church. During the 40 years Mr. Matoon has missed but four Sundays in his work of decorating the church.

Baltimore.

ROSES PLENTIFUL.

Bulbous stock is practically out of the market; also violets; carnations last week were pretty well cleared out, but roses were too abundant for the requirement of the market. A good many Lilium Harrisii are coming in, but the demand is not heavy.

NOTES.

Henry Fauth, a veteran gardener, died a few days ago at Catonsville, aged about 70 years. He had been for nearly half a century in the employ of B. N. Baker, and was an expert in the decorative as well as more homely lines of gardening, his effective bedding out and general floral effects always being much admired. He was of a family which seemed to run to gardening. His father, who reached a great age, for something like 60 years had charge of the grounds and gardens of the late Mrs. Lurman, one of the show places in this vicinity where the old style of English gardening, tall box hedges, much topiary work, and geometrical designs prevailed. This old gentleman, though in receipt probably of only the moderate wages which prevailed in his day, succeeded by frugality in accumulating an estate which was variously estimated as worth from $25,000 to $75,000, and left a number of sons, many of whom were florists. This class of worker is rapidly becoming extinct and is in great contrast with the feverish desire for constant changes and removals which affects the gardeners, especially on private places, at the present day.

We have had a long spell of cool, even cold weather, the temperature on several mornings falling to or below the freezing point. Outdoor stock is extremely slow in developing and wild and cultivated flowers are not in abundance. Much fear is expressed as to the fruit crops, the blossoms and setting fruit being just in the most tender condition. Another feature of this season has been the high wind storms, the prevailing gales being from the south, though not of the warm and balmy nature expected from that source, but cold, raw and piercing, due probably to the saturation of the atmosphere with moisture. A calendar of dates of the blossoming of hardy shrubs shows the season from seven to 10 days behind last year.

Considerable building will be done this season. Dennis Connor, who has charge of the interests in this territory of the Lord & Burnham Co., has bagged two good contracts for that enterprising firm. Lehr Bros. of Anne Arundel will put up a new carnation house 35x300 feet, and L. H. A. Klein of Towson two rose houses 20x100 feet. B. G. Merritt of Grange has given orders to the King Construction Co. for material for two carnation houses of about 100 feet in length.

John Cook, the veteran rosarian and hybridizer, who has been suffering with rheumatism for several months, is much improved and expects to be in the harness again before many days.

S. B.

NORTH COHASSET, MASS. — Alfred Cross has assumed charge of Col. A. A. Pope's greenhouse on Jerusalem Road.

WEST CHESTER, PA.—John Clark, a landscape gardener, has been ordered by the court to quit this state and continue to reside outside its borders. It was charged that while in a drunken condition a few evenings ago he made an attack upon a Normal school girl as she was walking on the street. His friends petitioned to have him sent away, which suggestion the court agreed to, and he was glad to accept the opportunity of escaping prison. He moved his effects into Delaware.

New Crop Dagger Ferns

$2.50 per 1000.

The Leo Niessen Co.

Philadelphia.

AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

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W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.

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The Wholesale Florists of Pittsburgh,

222 Oliver Ave., PITTSBURGH, PA.

Headquarters for Choice Flowers.

CHOICE

PEAS, IRIS, ROSES, VALLEY, BEAUTIES, LILIES.

THE McCALLUM CO., Inc., PITTSBURG.

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714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.

WRITE FOR PRICES.

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WHOLESALE FLORISTS.

ABSOLUTELY THE BEST POSSIBLE SERVICE.

Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

Washington.

A BUSY WEEK.

This has been rather a busy week with decorations and funeral work. Among the wild flowers, which are so effective in church and house decorations, is the dogwood, which is easily disposed of at good prices. The late frost has injured lilac to a great extent and it begins to look as if there will be a scarcity. The fruit buds have also suffered from the same reason. It continues cool and the consequence is that outdoor stock will not be up to the standard.

NOTES.

The president and Mrs. Taft entertained a party of friends at dinner; the table decorations were of Killarney roses and the work of course was done by the White House florist. He is an expert in this line and has the entire stock of the White House greenhouses at his disposal.

Gude Bros. are displaying some handsome made-up baskets and a huge dogwood tree in their F street windows; this firm always does a flourishing business in both funeral and wedding work.

Geo. C. Shaffer had an immense amount of Masonic work for the funeral of Capt. Burnell. Masonic lodges from various cities sent pieces and this kept his entire force hustling.

Blackistone's was a busy place one day last week; they were busy with decorations and funeral work for notable people.

Marche & Co. report fair business; they make a good showing in the store and believe in window and trade paper advertising.

The Pennock Meehan Co. reports good trade and is making improvements in the New York avenue store.

J. R. Freeman has his store nicely decorated with all sorts of blossoms, plants and blooming shrubs in season.

Geo. H. Cooke has an unusual lot of table, luncheon and tea decorations.

G. S.

Wholesale Flower Markets

PHILADELPHIA, May 5.	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac ..... per doz..	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, May 5.	Per 100
Roses, Beauty, specials	20 00@25 00
" " extras	8 00@12 00
" " No. 1	5 00@ 6 00
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 50@ 3 00
Lilium Longiflorum	10 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50@ 75
Tulips	2 00@ 4 00
Violets, double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, May 5.	Per 100
Roses, Beauty best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—

Carnations, Roses, Beauties,

All Seasonable Flowers.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

Pittsburg.

STOCK MOVING WELL.

Saturday evening found the wholesale houses pretty well cleaned out. Carnations moved very slowly during the first part of the week, but towards the latter part the market seemed to brighten up and stock moved out nicely. The market is still slow on American Beauty roses, prices remaining about the same. Some very fine miniature gladioli, daisies, sweet peas and roses are in.

NOTES.

On Saturday last the city was visited by another terrific wind storm, accompanied by a heavy fall of rain; much damage was done throughout the country. T. F. Beckert of Coraopolis lost some glass and it is reported that F. H. Westhoff of De Haven also lost considerable.

Arthur and John James have taken hold of the old L. I. Neff greenhouses at Cheswick. Their place at New Kensington is handling their output.

F. Farney of M. Rice & Co., formerly with Randall's of Chicago, was a business caller, this being his initial trip.

J. B. Smith of McKeesport is moving into new quarters, which is opposite his former location.

The McCallum Co. is handling some fine My Maryland roses.

Visitors: Peter Nichols, Cleveland, O.; S. Wertheimer of Wertheimer Bros., New York; John James of New Kensington; Misses Forbes and Donahey, Wheeling; E. Bell, Franklin.

J.

CUT FLOWERS OR DESIGNS

will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

Kansas City, Mo.

Samuel Murray

...FLORIST...

1017 Broadway Coates House Conservatory

Both Phones 2670 Main.

Write, Telephone or Telegraph. All orders given prompt attention.

St. Louis, Mo,

Write, Wire or Phone Your Orders to

YOUNGS

1406 Olive Street,

Regular discount allowed on all orders, either Plants or Cut Flowers.

Phones Bell, Main 2306, Kinloch, Central 4981

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** —838— CANAL ST.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS,

Successor to Chas. W. Reimers'

329 FOURTH AVENUE.

Louisville, Ky.

JACOB SCHULZ,

550 So. Fourth Avenue.

San Francisco, Calif.

J. B. BOLAND

Successor to Sievers and Boland,

FLORIST

60 KEARNEY STREET.

Los Angeles, Cal.

J. W. Wolfskill,

FflorisT,

Telegraph Orders a Specialty. 218 W. 4th St.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail Florist.

Toronto, Can.

Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

Washington, D. C. 14th & H Sts.

Baltimore, Md. 1601 Eutaw Place.

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Brooklyn, New York.

"WILSON"

3 and 5 Greene Ave. and 339 to 347 Greene Ave.

Greenhouses: Short Hills, N. J.

— Deliveries in —

NEW YORK, LONG ISLAND and NEW JERSEY.

M. A. Bowe

IN HEART OF NEW YORK CITY

Phone 2270 38th St. 1294 Broadway

Our Motto—THE GOLDEN RULE.

New York.

MYER, FLORIST,

609-611 MADISON AVE.

Phone 5297 Plaza.

Omaha, Neb.

Hess & Swoboda,

FLORISTS,

1415 Farnum St. TELEPHONES 1501 and L 1582

Denver, Colo.

The Park ...Floral Co.

L. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable Cable address "Daniels, Denver."

GUDE BROS. CO. FLORISTS 1214 F ST. N.W.

WASHINGTON D. C.

Gude's

Philadelphia, Pa.

Robert Kift,

1725 Chestnut Street.

Prompt and Careful Attention given to all Mail and Telegraph orders.

Buffalo, N. Y:

Palmer's

Palmer & Son. 304 Main St

Albany, N. Y.

EYRES

Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL STREET.

Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dis. Bell Phone

Indianapolis, Ind.

Bertermann Bros. Co.

FLORISTS

241 Massachusetts Ave.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST
M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.

JULIUS BAER,
138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long Tel. Phones

Kansas City, Mo.

GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. **Phone 1912.**

Atlanta, Ga.

ATLANTA FLORAL CO.
41 Peachtree Street.

Hoffman FLORIST
59-61 Massachusetts Ave. or Commonwealth Ave.
BOSTON.

Anderson, S. C.

THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

A Good Window Sign.

May 9, President Grant, Hamburg-New Yk.
May 10, Rhein, Baltimore-Bremen.
May 11, Carmania, Liverpool-New York.
May 11, Hamburg, New York-Genoa.
May 11, Potsdam, New York-Rotterdam.
May 11, Kronprinz Wilhelm, N. Y.-Bremen.
May 11, K. Wilhelm der Grosse, Brem'n-N. Y.
May 12, Laurentian, Boston-Glasgow.
May 12, Numidian, Glasgow-Boston.
May 12, Campania, New York-Liverpool.
May 12, Oceanic, New York-Southampton.
May 12, Adriatic, Southampton-New York.
May 12, Lake Manitoba, Liverpool-St. John.
May 12, Bluecher, New York-Hamburg.
May 12, Venezia, New York-Naples.
May 13, Pannonia, New York-Trieste.
May 13, La Provence, New York-Havre.
May 13, Ottawa, Liverpool-Montreal.
May 13, Duca Degli Abruzzi, N. Y.-Naples.
May 13, Prinzess Irene, Genoa-New York.
May 13, Friedrich der Grosse, N. Y.-Bremen.
May 13, Hellig Olav, New York-Copenhagen.
May 14, Manitou, Philadelphia-Antwerp.
May 14, Arabic, Liverpool-New York.
May 15, Sicilian, Montreal-London.
May 15, Pomeranian, London-Montreal.
May 15, Columbia, New York-Glasgow.
May 15, Caledonia, Glasgow-New York.
May 15, St. Paul, New York-Southampton.
May 15, St. Louis, Southampton-New York.
May 15, Friesland, Philadelphia-Liverpool.
May 15, Mauretania, Liverpool-New York.
May 15, La Touraine, Havre-New York.
May 15, Florida, Havre-New York.
May 15, Kroonland, New York-Antwerp.
May 15, Vaderland, Antwerp-New York.
May 15, Cedric, New York-Liverpool.
May 15, Cymric, Liverpool-Boston.
May 15, Laurentic, Montreal-Quebec.
May 15, Lake Champlain, St. John-Liverp'l.
May 15, Amerika, New York-Hamburg.
May 15, Roma, Naples-New York.
May 15, Ryndam, Rotterdam-New York.
May 15, Lazio, New York-Naples.
May 15, Berlin, New York-Genoa.
May 15, Bremen, Bremen-New York.
May 15, Laura, Trieste-New York.

CLEVELAND, O.—The greenhouse of Mrs. E. G. Wilson, Rowley and East Fourteenth streets, was completely destroyed by the recent storm.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
Western Union Code.

Detroit, Mich.

John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.
Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.

HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Fred H. Weber,
FLORIST,
BOYLE and MARYLAND
Flowers delivered state or city on short notice. ST. Louis, Mo.

Owatonna, Minn.

Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

SWEET PEAS in southern California are reported in fine condition.

FREIGHT RATES on Dutch bulbs are likely to be 10 per cent higher owing to combinations made by steamer lines.

ST. JOSEPH, MO.—W. C. Kennedy has filed a petition in bankruptcy, liabilities about $8,000 and assets about $3,500.

THE cold, rainy and even snowy weather the past week has cut the retail counter seed trade seriously both east and west.

HJALMAR HARTMANN & Co., Copenhagen, Denmark, have changed their stores and office from 12 Stormgade to 20 Longangsstraede.

ONE of the largest contract pea growers is reported to have placed several thousand acres in a new growing section around Madison, S. D.

TARIFF.—Whether the fight now being made by Senator Dolliver and others for tariff revision downward will affect the seed and bulb schedules now in the hands of the two committees in congress is problematical.

EXTRA steamship service is being provided between Mexico and Spain by the Royal Mail line in order to carry the huge chick-pea crop, says the Mexican Herald. Mexico formerly made large purchases of these from Spain, but is now exporting them.

ALL seedsmen should see that their local newspapers make use of the excellent and seasonable articles issued regularly by the National Council of Horticulture. These articles, written by competent horticulturists, are reliable and valuable. Newspapers may secure this press service free on application to Jas. H. Burdett, 17 W. 104th place, Chicago.

CHICAGO.—Onion set growers have been set back seriously in their work by almost continuous rains, followed by a severe storm April 29.—Contract prices on the board of trade April 28 for grass seed were noted as follows: Prime timothy, $3.80 (nominal); white clover, $16.—Visitor: W. Taat, representing M. Van Waveren & Sons, Ltd., Hillegom, Holland.

PHILIPPE DE VILMORIN has been recently appointed by the French government a foreign commerce councilor.

NEW YORK.—Grant Thorburn, of the firm of J. M. Thorburn & Co., died in Paris, April 30. See obituary, page 752.

ALBANY, N. Y.—The senate has passed the bill prohibiting the sale of impure seeds unless they are so labeled.

THE legislature of Wyoming has passed a pure seed law which was approved February 27, 1909, to go into effect after January 1, 1910. The law requires agricultural seeds to be marked "Pure Seed" to conform to a standard of purity and vitality as indicated in the law.

John Bodger.
See Page 766.

THE new edition of the American Florist Co.'s Trade Directory contains the names and addresses of the leading florists, seedsmen and nurserymen of Mexico, Argentine Republic, Brazil, Chile, Colombia, Costa Rica, Guatemala, Nicaragua, Paraguay, Peru, Uruguay and Venezuela, a very important new feature.

TWO HUNDRED members of the New York produce exchange have organized to induce congress to place Danish cabbage on the free list, as they assert there is a demand in this country for the vegetable which cannot be supplied by home production. One of their principal arguments is that of reciprocation.

Might Become Free Seed Grafter.

Now Mr. Edwards of Georgia desires Congress to abolish the mileage allowance and pay only the actual railroad fare of members. So violent a reformer is bound to break down in some department or another, and we shall not be at all surprised to hear of him supporting the free seeds graft.—Houston Post.

Duty on Sugar Beet.

An attempt will be made shortly by the board of general appraisers to solve the problem whether a sugar beet is a "vegetable" or an unmanfactured, unenumerated article. The sugar interests allege that the sugar beet should be allowed to enter this country at 10 per cent, as being unenumerated, while the government contends that the beet has all the characteristics of a "vegetable," and should be dutiable at 25 per cent. The sugar concerns contend that the imposition of a 25 per cent duty imposes an unnecessary burden on them. The government asserts that the American farmers should receive adequate protection.

Garden Seed Crops in Pennsylvania.

Bristol, May 1.—All prospective seed crops in Pennsylvania, from wintered over crops of cabbage, kale, turnip, onion, parsnip and spinach are now under a very vigorous growth because of the abundant spring rains; indeed, some turnip and cabbage are in bloom, but the plants are thin on the ground, consequent upon the destructive influences of the past winter, during which quite one-third of the plants were frozen out or winded out. The drilling of "cold" soil seeds or very early sown spring crops, as of radish, spinach, lettuce, onion and mustard, has been delayed quite three weeks by reason of the continued exceedingly wet and cold soil, in which it has been inexpedient to sow even cold soil seed.

Of course nothing has yet been done with the seed of "warm" soil plants, as melons, cucumbers, squashes, corn and beans, as we have had, every morning for 10 days, more or less frost; throughout the days plowmen have been wearing their winter overcoats. Really November weather, delaying farm operations of every kind. Drilling onion seed for onion sets is now in full progress, but the speculative acreage in Pennsylvania every year grows less and less, for the reason that western sets are sold at prices lower than the Pennsylvania farmer can afford to grow them.

The growing of cabbage and turnip seed has also almost entirely ceased to be pursued by Pennsylvania market gardeners and farmers, because of the low prices at which foreign grown seeds of these sorts are imported. If the tariff on seeds was advanced to an equivalent of 60 per cent (specific) no less seed would be sold, while American growers of fine seeds in the east would have some chance to reëstablish themselves. It will be a profitable thing this year if the Pennsylvania turnip seed growers have a big crop, because the European prospects for turnip seeds are exceedingly bad, and, consequently, there is certain to be a shortage later on, as no appreciable quantity of American seed comes within the estimate of supplies in sight.

D. LANDRETH SEED CO.

(OTHER SEED TRADE NEWS ON PAGES 766-767.)

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
APDS, MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

BUY CALIFORNIA Asparagus Plumosus Nanus Seed.

You can get the best seed grown right here in California. It is fresh, large, clean and full of vitality. The best and biggest dealers are our regular customers and their orders are increasing each year. If you are doubtful, just write me and I'll tell you the names of the buyers, some of them perhaps you are personally acquainted with.

Seed will be sold by count, with the usual guarantee as to germination, and I will again sell at my usual low, cash-with-order prices as per following list.

1,000 seeds...	$ 2.00	13,000 seeds...	$20.00
6,000 seeds...	10.00	25,000 seeds...	35.00
50,000 seeds...	62.50	100,000 seeds	100.00

If you send me your order I know you will be pleased with the results.

F. GILMAN TAYLOR,
630 H.W. Hellman Bldg., LOS ANGELES, CAL.

S. M. Isbell & Co.
Jackson, Mich.

Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

The Everett B. Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

Jay J. Utter, BRAVO. MICH.
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz. 40c; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Mention the American Florist when writing

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds
April is the month to sow this seed.

ASPARAGUS PLUMOSUS NANUS,
Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,
100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,
NEW YORK. CHICAGO.
Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. **Varela's Improved Onion Seeds** will give best satisfaction to growers. Insist on getting them It will pay you.

Federico C. Varela, Teneriffe, Canary Islands

STOCK SEED
For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors	⅛-oz. 60c: oz. $4.00
Pure white	⅛-oz. 75c; oz. 5.00

H. E. FISKE SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

NOW READY 1909 EDITION **Trade Directory.**

John Bodger & Sons, Gardena, Calif.

The seed growing firm of John Bodger & Sons, Gardena, Calif., has been recently incorporated under the laws of California for $100,000, fully paid up, with John Bodger, president, Walter Bodger vice president, John Charles Bodger secretary and the National Bank of Long Beach treasurer. John Bodger, father of the boys, is a native of Somersetshire, England, and was in business over 20 years as seedsman, florist and nurseryman in Burnham. When the children were sufficiently grown, Mr. Bodger's ambition was to seek a more prosperous part of the globe, consequently the eldest son was sent to California to start out for himself and to report the prospects for the remainder of the family. At the end of one year he determined to leave the family, to investigate for himself, the chances of the new country, and left his wife and six children to carry on the business. In February, 1892, they were all reunited at Santa Paula, where John Bodger, with his eldest son, William James, started as John Bodger & Son on a small piece of 40 acres.

The business gradually increased, making it necessary to increase the acreage, so a larger ranch of 120 acres was leased. In 1902 John Bodger bought a ranch of 40 acres in Arroyo Grande valley and put Walter there to manage it in conjunction with the Santa Paula business. Later as there were no prospects of getting more land at Santa Paula, John Bodger again set out to find a locality where it could be secured, and found one piece of 353 acres 12 miles south of Los Angeles. At that time little attention was given to farming there, grain and hay being the only product, and Mr. Bodger bought this ranch for $40,000, sold off the land at Arroyo Grande, and all moved to Gardena and Los Angeles. John Bodger has now sold this ranch to the incorporated firm for $80,000, which, with an additional 150 acres, is planted to sweet peas of all the leading and newest varieties, and it is the ideal soil for developing flowers and maturing seed of these favorite flowers. These flowers are under the management of Walter Bodger, who takes special interest in their cultivation and personally superintends the rogueing and keeping of the separate colors true to name. At Alamitos the firm has another ranch of 250 acres, where tomatoes, lettuce and aster and other flower seeds are grown. This ranch has been under the superintendence of John Bodger, who has now retired from the arduous duties of the management, to devote his special care to improving the growing crops and especially to the improvement of asters, which are his most favorite flowers. This year 20 acres are planted and it is believed that this will produce seed that will give flowers of the type to please the most fastidious florist's trade. In addition to these two branches for raising garden and flower seeds several hundred acres are planted to Lima beans at Santa Paula for seed beans, of which this firm handles a large quantity.

ESCHSCHOLTZIAS in the new shades of red and pink are very attractive as shown in the colored catalogue plates.

CATALOGUES in plain but substantial and tasteful covers are the order of the day with prominent European houses.

"BULBS THAT BLOOM"

BETTER GLADIOLI THAN YOU HAVE EVER SEEN—YOU CAN GROW THEM.

Cedar Acres Gladioli command in the cut-flower market a price six times as high as the regular market rate, because the flowers are larger and finer than any procurable elsewhere With my bulbs and cultural directions you can grow the same kind. They are as easy to raise as potatoes.

The Gladiolus has become the queen of the garden. From the old-time scraggly spike, the Gladiolus has developed into a magnificent and stately plant, bearing a wealth of of color as delicate as the finest orchid. For cut-flowers, they are unequalled in beauty, and last for nearly ten days, gradually unfolding.

My new seedlings including the famous Harvard, Kathryn, and Fireside, have been awarded numerous medals and certificates of merit.

BOOKLET FREE, showing Harvard in full colors, and many other new varieties, with reliable information about each one. **Send for it today.**

B. HAMMOND TRACY,
Cedar Acres Box 17. WENHAM, MASS.

Guaranteed just as represented. Reference: National State Bank, Camden, N. J.

Peacock's Jack Rose Dahlia

is not only the best crimson, (color of the "Jack" Rose Bud)

But the Best all around Commercial cut flower Dahlia on earth

Strong plants, 50c each, $5.00 per doz., $35.00 per 100.

Send for new illustrated catalogue of **New Creations** in **Dahlias, New Decorative, Show, Fancy, Art** or **Peony-Flowered** and **New Century Dahlias.** With a superb collection of **New Cactus Dahlias.**

PEACOCK DAHLIA FARMS, Williamstown Junc., N. J.

North Dakota Seed Bill.

Bismarck, N. D.—The so-called pure seed bill has now become a law and will take effect July 1. This law forbids the sale of any agricultural or garden seeds exceeding one pound in quantity which contains seeds of couch or quack grass, Canada thistle, sow thistle or dodder, and prohibits the sale of any agricultural or garden seeds in similar quantities containing more than a reasonable trace of the seeds of greater ragweed, cornflower, marsh elder, Russian pigweed, dandelion, chicory, Russian thistle, plantain, buck plantain, bracted plantain, white cockle, night-flowering catchfly, pink cockle, corn cockle, cow cockle, curled dock, sorrel, sheep-sorrel, purslane, bindweed, wild buckwheat, wild onion, wild oats, pigeon grass, holy grass, cress, mustard, tumbling mustard, hare's-ear mustard, pennycress, pepper grass, shepherd's purse, false flax, bird's-foot trefoil, yellow trefoil, bur clover, sweet clover, ergot, or of the seeds of any other noxious weeds.

Thus it will be seen that it is practically a blanket law and the noxious weeds are included. The punishment is a heavy fine for first offense and for second and subsequent offenses a materially heavier one. The enforcement of the bill is in charge of a state seed commissioner who has a right to enter any premises where seeds are kept. The certificate of the botanist of the North Dakota Agricultural College Experiment Station is presumptive evidence of violation of the law. Any person, firm or corporation is apparently liable for selling or offering seeds, whether it be farmer, grower, or dealer. All mixed seeds must be labeled on the exterior of the container with the correct common names of kinds composing the mixture. This would apparently apply to lawn grass seed.

The act does not apply to the sale or exposure for sale of unclean seed providing each package is plainly labeled as unclean seed. No such unclean seed will be sold or delivered within the state for sowing purposes without the consent of the purchaser. It is evident from the above that the seedsman in North Dakota could sell unclean field seeds for sowing purposes with safety if he secured the written consent of the purchaser and provided the same did not contain any of the forbidden weed seeds mentioned above.

Imports.

During the week ending May 1 imports were received at New York as follows:

Maltus & Ware, 120 cases, 201 pkgs. plants, 88 pkgs. laurel trees, 5 pkgs. trees and shrubs, 3 cases orchids.

McHutchison & Co., 37 cases plants, 54 tubs laurel trees.

F. B. Vandegrift & Co., 6 cases, 32 pkgs. plants, 4 cases trees, 2 tubs laurel trees.

Stumpp & Walter Co., 7 bbls. plants, 18 tubs, 1 pkg. laurel trees.

H. Frank Darrow, 7 cases plants.

A. T. Boddington, 3 cases rose plants.

Vaughan's Seed Store, one case plants.

J. Roehrs Co., 8 cases trees and shrubs, 500 pkgs. trees, 490 tubs laurel trees.

To others: 82 cases, 2 crates, 18 pkgs. plants, 456 pkgs., 388 bags, 200 baskets, 3 cases trees and shrubs, 396 tubs laurel trees, 1,430 bags, 55 bbls. seeds, 3 cases bulbs, 6 cases orchids.

INDIANAPOLIS, IND.—Geo. H. Swain is well pleased with the large increase in his sales. Huntington & Page have cleaned out their onion sets at good prices.—J.

CAREFUL SELECTION OF BOTH PLANTS and BULBS.

OUR grower, writing under date of April 12, says crop of "Harrisii" is looking exceptionally well this year, the season having been favorable to the development of good healthy plants, and they expect to harvest an average crop of fine bulbs. Remember, while we do not claim that our "Harrisii" are absolutely free from disease, or that every bulb will produce a perfect plant, we do claim that our grower's efforts in the way of spraying and rogueing are producing results, our stock now being freer from disease than ever before and of genuine "Harrisii" type, in fact, the best general crop grown on the Island of Bermuda.

Vaughan's Seed Store,
CHICAGO. NEW YORK.

Criticism of American Methods in China.

Vice-Consul Charles L. L. Williams, of Chefoo, furnishes the following information concerning the introduction of American seeds and fruits into China and the faulty methods of American exporters to that empire:

"The introduction of American fruit trees into Chefoo and of peanuts into Tengchowfu are important as showing the possibilities in this line in this province as well as elsewhere in the empire. Outside of a very small area around Chefoo, Tengchowfu, Chinei, and Laiyang, practically no effort has been made to extend this most important enterprise. This province now produces the following native fruits, most of which are of an inferior quality to the American product: Apples, persimmons, pears, plums, peaches, cherries, apricots, grapes, dates, quinces, and figs.

"All kinds of flower and garden seeds should be on sale here. The seeds now offered are not up to the standard, the variety is very limited, and the price asked is prohibitive, so far as the Chinese gardeners are concerned. No effort is being made to sell foreign seeds of any kind to the Chinese, who must ultimately become very large buyers. A nursery agency should be established in two or three Chinese ports from which salesmen could be sent out and goods delivered to any point.

Weakness of American Business Methods.

"A great weakness in American trade methods in China is the custom of placing the business of a large number of trade agencies in the hands of one firm handling everything, from seeds to locomotives, the business being carried on in one or two small rooms. American manufacturers should understand that China has passed the pioneer stage of doing business in the old-time country grocery style.

"American firms have combined on a machinery agency, and this combination ought to be not only instrumental in giving new life in this line of products, but it may be the possible solution of the best method of selling other American products in China. In this connection the suggestion is offered that while, as a rule, merchants should be willing to receive suggestions from a foreign agent, it is always best that the agent should be a man of tact and patience, who knows how to put himself behind rather than in front in all his dealings with Chinese traders."

NEW CANNA
WAWA
A new shade of beautiful soft pink splendid form
$1.50 each, $12.00 per dozen.
Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.
——Send for List:——
The Conard & Jones Co.
WEST GROVE, PA.

Caladium Esculentum
(ELEPHANT EARS.)
Reduced Prices for Quick Orders

Size.	Per 100	Per 1000
5 to 7 inches	$1 10	$ 9 00
7 to 9 inches	2 10	18 50
9 to 11 inches	3 65	35 00
11 inches upward	6 50	65 00

Packed and f. o. b. cars at Richmond.
These prices are very low and should prove profitable sellers for local trade or to induce the planting of large beds for show purposes.
T. W. WOOD & SONS,
Seedsmen, Richmond, Va.

Fischer's Grand Freesia
PURITY
The Unequalled, White Decorative Freesia :: ::
Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed, avoiding all danger of mixture, as **Purity** does not come true from seed. Dealers getting their stock from me will always be sure of getting the purest stock.
For sale by the Leading Seedsmen :: :: :: ::
RUDOLPH FISCHER,
San Gabriel, R. F. D., Calif.

FLOWER SEEDS.

	Pkt.
Begonia Dichroa, Ruby	$ .50
Stocks, Cut and Come Again, asst	.50
" Early Brompton or Nice, asst	.50
Salvia, Bonfire, Farinacea	.25
" Triumph, Zurich	.50
Petunia, large flowering, fringed and stained	.50
" Howard's Star, Inimitable	.25
Lobelia, Lugdenensis, Hamburgia	.25
" Barnard's Perpetual, White Lady	.25
Myosotis, Stricta, 3 colors	.20
" Robusta Grandiflora, 2 colors	.20
Poppy, Alpine, fine for pots	15

All other standard varieties in fresh stocks.
Catalogue on application
Fresh Tobacco Stems, $1.50 per 300 lbs.
W. C. BECKERT. North Side, Pittsburg,

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

MONTGOMERY, N. Y.—The market plant trade has already started in extensively.

CUCUMBER EXPORTER, now sent out by the raiser, Sparkes, of Worthing, England, fame, is doing good work. Shorter than the usual market type by two inches, it has the dual advantage of being ready to cut earlier, and is a prodigious cropper. American growers who are on the lookout for a high class novelty will do well to take note of this. So far we can see no one fault or defect, and apparently it enjoys our close one-joint stopping.—S.

Starting Plants on Sod.

This is an old practice, yet very little understood by many gardeners. We have had great success with sod plants. We use this method for tender subjects, such as produce a plant quickly from seed. The sod method is not so well adapted for transplanting seedlings as it is difficult to get the plants properly planted into the sod cubes, but for cantaloupes, cucumbers, lima beans and sweet corn we know of nothing better. The method is superior to pots, strawberry baskets or paper pots. The first cost is less and when we get to planting out there is no loss of time knocking out or wheeling back pots and no breakage or waste. And the plants are superior to the others

All the above named subjects love heat, hence we do not bother with spent hotbeds; we make new beds from fresh manure. Upon the manure we spread a very thin layer of old fine manure and upon this we place the inverted sod blocks, taking care that no one touches the other. This is the point. Some writers advise to run a layer of earth over the sods, but this is certainly wrong, as we do not want the roots to run from one to the other. To sow the seed we dig a small hole into each block, using a pointed knife, and cover with a pinch of screened earth. In a warm bed the plants will grow surprisingly. We keep them as dry as possible to get them sturdy.

We figure just 30 days to produce the right kind of plants and never plant out in May—there is no use. When the first real summer weather strikes us we place the plants into flats, carefully, and haul to the fields, setting them squarely on the ground and simply hoe up with a hand hoe. If well grown, they never even "wink"—they grow from the start. All vine plants, such as melons and cucumbers, should be thoroughly sprayed with Bordeaux and arsenate of lead—using 4-4 Bordeaux and three pounds lead per barrel--before they go to the field.

We used to cut the sods 4x4 inches by 2½ inches deep, but we soon found that just as good plants can be grown on smaller blocks, saving much space and labor. At present we use 3-inch blocks. Blue grass sod is best. We cut with a sharp spade using a line lengthways, and cut cross ways with a 3-inch board, and then lift the blocks with the spade directly into flats and haul to the frames. Within wheeling distance three men can make up the bed, cut and wheel the sod, place and sow the seed for 2,000 blocks in half a day, and do it on a rainy day besides.

To show what can be done with this method, we give an example. When the writer was a boy, his people were interested in a pickling cucumber enterprise. One season the month of June was so excessively wet that the land could not be prepared for the crop. When the final chance for outdoor sowing was gone, the entire crop was started on sods, as above, under sash. By the time the plants were ready the weather changed. The weeds and grass in the field were rolled and plowed under and the thrifty plants set immediately and in two days' work the acres of weeds were changed into a fine cucumber patch. The crop was the best in years. We wish to repeat that the plants must be grown on the dry side; they will stand a great deal, and just before setting out water them repeatedly until wet clear through. For this last watering, a weak solution of fresh cow manure is an advantage. If the land has a dust mulch this must be scraped away before planting so as to have the sod block get a square contact with moist earth. In warm weather such plants will get a hold in a few hours instead of days.

MARKETMAN.

Growing Irish Potatoes From Sprouts.

The British agricultural colleges have been testing the growing of potatoes from sprouts with great success. A Daily Scotsman forwarded by Vice-Consul Charles Drysdale, of Dunfermline, says that the yield and quality have both been increased and the disease-resisting powers strengthened. The newspaper clipping, describing the Scotch method, is filed for public reference with the Bureau of Manufacturers, Washington, D. C.

Prices of Indoor Fruits and Vegetables.

The prices of indoor vegetables at leading points May 1 were as follows: New York—Cucumbers, $6 to $7.50 per box; lettuce, $2 to $4 per bbl.; mushrooms, 50 to 90 cents per pound; mint, 50 to 75 cents per dozen bunches; radishes, $2.50 to $3 per 100 bunches; rhubarb, $2 to $3 per 100 bunches; tomatoes, 25 to 30 cents per pound; grapes, new imported, $1.50 per pound. Chicago—Cucumbers, $1 to $2 per dozen; head lettuce, $1.50 to $2.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City—Cucumbers, $1 to $1.50 per dozen. Cincinnati—Cucumbers, $1.50 per dozen.

Poisoning By Honeysuckle.

Dr. Olav Hanssen, of Christiania, has recently published in the Nordiskt Mediciniskt Arkiv a case occurring in the practice of Dr. Engh, of Volden, in which a little boy two years old was poisoned by the flowers of Lonicera periclymenum (common honeysuckle). The child, after being in the garden playing with the flowers, became tired and drowsy and then complained of thirst. Clonic spasms and opisthotonos occurred and then diarrhœa, some of the flowers being found in the evacuations. The eyes were calm and steady but set, the face was first red and then livid, and the pulse and respiration were very rapid. When the spasms abated profuse perspiration occurred, after which the child fell asleep. He made a good recovery.

"EAT CALIFORNIA RAISINS" is the slogan of the California Raisin day committee, which is endeavoring to create a bigger demand for the local grown fruit.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10 000 and over	85
Beets, Crosby, Egyptian and Eclipse	1 25
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 25
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	3 00
Chinese Giant and Cayenne	50c per 100

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 89 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

P.C.

Trade Mark. **American Spawn Co., St.Paul, Minn**

Julius Roehrs Co.'s Specialties

BAY TREES AND BOX TREES, CHOICE EVERGREENS.

Special Offer on **Blue Spruce, Palms, Stove Plants, Crotons, Hydrangeas,** all sizes.

Begonia Gloire de Lorraine, from leaf cuttings.

New importations of **Cattleya Trianae, C. Labiata, C. Gigas, Vanda Coerulea.**

Dendrobium Wardianum, D. Formosum.

EVERYTHING IN FIRST-CLASS CONDITION.

Write us and we will cheerfully give prices, with lists of any of the above.

JULIUS ROEHRS CO., Rutherford, New Jersey

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN WELL ESTABLISHED Plants

Kentia Belmoreana

		Each	Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high			$ 6 00	$50 00
6-in. " " "	22 to 24 in. high	$1 00	$12 00	
6-in. " " "	24 to 26 in. "	1 25	15 00	
6-in. " " "	26 to 28 in. "	1 50	18 00	
9-in. tub " "	42 to 48 in. "	5 00		

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high	$ 4 00 each
12-in. " 4 plants, 6 feet high heavy	15 00 each

Joseph Heacock Co., Wyncote, Pa.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June 9-11, 1909

VISITED CHICAGO.—W. Van Kleef, Jr., of W. Van Kleef & Sons, Boskoop, Holland, reports business very good; P. M. Koster of Koster & Co., Boskoop, Holland.

AUSTIN, TEX.—The Nursery and Orchard Inspection bill which recently passed the legislature has been signed by the governor and becomes immediately effective.

THE next annual meeting and exhibition of the American Peony Society will be held at Ithaca, N. Y., next month. The date has not yet been fixed on account of the backward weather.

STUDIES by the forest service show that, even if the large sequoias in California are cut down, the species is in no danger of becoming extinct as it is holding its own, and with proper care may be perpetuated.

ANN ARBOR, MICH.—Following the lead of Madison, Wis., the advocates of civic improvement have determined upon a systematic beautifying of the city and a permanent association has been formed to forward the work.

FRESNO, CALIF.—Smith & Gregory, nurserymen of Redlands, have purchased a large tract of land between this city and Lindsay, where, it is understood, a branch of the Southern Nursery will be started and trees for local orchards grown.

CITY FORESTER JACOB H. PROST proposes to make a "City Beautiful" by instructing the citizens of Chicago as to the proper kinds of trees to plant in the different sections of the city. He proposes to divide the city into zones and will ask the coöperation of the various improvement clubs in securing funds to purchase plants for the barren districts.

SAN FRANCISCO, CALIF.—C. C. Morse & Co. have purchased a piece of land near Haywards and will use it for growing nursery stock exclusively. They are erecting some buildings, putting in wells and pumps, and are also planting about 20 acres of it to nursery stock this season. The aim of the firm is to conduct almost a wholly retail nursery and will grow its own stock, as this is needed a little better than the ordinary nursery stock now offered. The new tract is on some of the finest land in the state and also some of the most expensive, and the firm has great hopes of growing nursery stock that will be adapted to the most critical trade on the coast.

Variegated Rose.

W. Van Kleef, Jr., representing W. Van Kleef & Sons, Boskoop, Holland, is making his annual tour of the American trade and reports business very good. Mr. Van Kleef says his firm will shortly disseminate a new golden variegated hybrid tea rose, as yet unnamed. The flowers, after the style of The Bride, are pure white and produce very freely.

Flowering Trees and Shrubs During April.

NOTES FROM ROCHESTER, N. Y.

The past winter has been comparatively mild. The temperature at no time went lower than one degree below zero. Judging by present appearances trees and shrubs generally seem to have wintered well. The months of March and April, though, have been remarkably raw and cold, with strong and searing cold winds, and it has been during that time more trying on evergreens than at any other time during the winter.

The Japanese witch hazel (Hamamelis Japonica arborea) opened its first flowers on February 5 and it was in good bloom February 27, continuing in flower until about April 1. The blossoms, with the rich primrose yellow petals, and deep red calyx, look remarkably showy. It is absolutely hardy, and is one of those things that should be extensively planted.

The silver maple was in full flower about April 5. The reddish pistillate flowers are quite attractive. It is not as showy in bloom, however, as the scarlet maple, which was in full bloom about April 15.

The charming Alpine heath (Erica carnea) was in flower April 6 and is at the date of writing (April 28) in fine showy condition. The pale red, one-sided flower racemes are very attractive. The white flowered form (Erica carnea alba), which is known sometimes under the name of E. herbacea, blooms at the same time. It is more compact in its habit of growth than the type, and the white flowers are charmingly pretty.

The mezereon (Daphne Mezereum) was in flower April 6. The pale red flowers which cling closely to the naked branches, are pleasingly fragrant. A variety with pure white blossoms, D. Mezereum alba, and one with deep red flowers, D. Mezereum rubra, are choice forms. This handsome garden shrub is showing a tendency to become extensively naturalized in this country. An important colony has established itself in a damp, shady wood in Seneca Park and hundreds of it are growing vigorously in a wild state at the Dufferin islands, Victoria park, Niagara Falls, Ont.

The rabbit berry (Shepherdia argentea) was displaying its yellow blossoms on April 7. The staminate individual is quite attractive in flower. This shrub seems to have a constitutional tendency to be weak at the collar. About the time it attains maturity it seems unable to support itself and will fall over in a misshapen wreck. I do not know of any other shrub or tree that shows this specific weakness.

The American, European and Constantinople hazels were in full flower about April 7. The Constantinople hazel (Corylus colurna) has long, drooping, dull brownish yellow catkins that present a graceful effect on large trees. The Japanese and European alders were in full flower on April 8.

Cornus mascula opened its first flowers on April 13 and is in good bloom now, April 28. This is very attractive and cheerful in bloom and is a first-rate all-round shrub or small tree. C. officinalis, from Japan, flowers at the same time as C. mascula and very much resembles it. In C. mascula the yellow flower clusters are about the same length as the involucral scales, but in C. officinalis they are about twice as long, and consequently the flowers of the Japanese species are perhaps a little more showy.

Standish's honeysuckle (Lonicera Standishi) showed a few open flowers on April 17 and was in full bloom April 25. The whitish blossoms are deliciously fragrant. L. fragrantissima was partly in flower April 24. The whitish flowers are pleasingly fragrant, but the odor is not as perceptible as in L. Standishi.

Rhododendron Dahurica came into bloom on April 22. The pale, rose-colored flowers are quite showy. It is quite hardy here and one good sized plant has wintered well for 16 years.

The leatherwood (Dirca palustris) was displaying its yellow blossoms on April 23 and the spice bush (Lindera benzoin) commenced to open its yellow blossoms April 26.

The star magnolia (M. stellata) commenced to unfold its handsome white flowers on April 24. At present appearances the flowering of this showy spring shrub will be a failure. On account of the cold, searing winds the flowers do not open, but remain in an abortive condition.

The goat willow (Salix caprea) was displaying its handsome yellow male catkins April 26. This is perhaps one of the handsomest of the willows in bloom. A wild peach from the mountains of Pekin, China, received from the Arnold Arboretum, was in full bloom April 26. To cap the climax, at the date of writing the ground is covered with six inches of snow and it looks like mid-winter.

JOHN DUNBAR.

Test of Outdoor Roses.

In the spring of 1907, a collection of about 130 varieties of roses were planted in the garden at the experimental farm at Guelph, Ont., consisting of bush and climbing varieties, including hybrid perpetuals, hybrid teas, polyanthas and teas. They were given good cultivation and made a fair growth the first season. Various methods were tried of protecting the bushes for the winter. Some of the bush roses were banked with earth for a foot or so about the canes, some were banked with manure only, and some with leaves and strawy manure with board cover. The climbing roses were laid close to the ground and covered with four or five inches of strawy manure. So far as a comparison of results was concerned, but little difference was noticed in the different methods.

Bush Roses.—All of these that came through the winter satisfactorily flowered during the summer of 1908. The hybrid teas, such as Meteor, Richmond, and other tender varieties, were many of them badly winter killed, even where well protected. Some of the more hardy hybrid perpetual varieties budded or grafted on the briar or manetti stock were also winter killed or badly weakened. Bushes on their own roots, while probably not making quite as strong growth as those budded or grafted, came through the winter almost without exception in very good condition. This goes to show that hybrid tea roses, of any variety, are not so desirable for planting outside in this locality or in northern sections of Ontario.

Climbing Roses.—There were 20 varieties of climbing roses in the collection, most of which wintered fairly well with the protection given. Maddalena Scalarandis was the only variety killed entirely, although some of

the polyantha and Soupert type of climbers were partially winter killed. Among the most promising newer varieties in the collection are May Queen, Pearl Queen, Wm. C. Egan, and Queen Alexandra. The last named is a beautiful, free blooming, attractive rose, rivalling the popular Crimson Rambler in the size of its panicles of flowers, the color being a pretty pale pink. Further tests must be made, however, before any very definite results can be published.

Tea, Hybrid Tea and Polyantha Roses.—Very few of these came through the winter satisfactorily, notwithstanding the careful protection given them. Of those that survived, Hermosa, Baby Rambler, Killarney, Clothilde Soupert, Queen's Scarlet, and Gen. de Tartas came out the best. Hermosa proved to be the hardiest of the lot. The bushes of this variety bloomed profusely the greater part of the summer.

GOOD ROSES FOR AN AMATEUR'S GARDEN.

From the data at hand the report recommends the following as a few of the most desirable hardy roses for the amateur's garden:

Hybrid Perpetual Bush Roses.

Abel Carriere, crimson
Anna de Diesbach, pink.
Baron de Bonstetten, very dark crimson.
Countess of Roseberry, shell pink.
Dinsmore, dark crimson.
Eugene Furst, velvety crimson maroon.
Earl of Dufferin, velvety crimson.
Exposition of Brussels, dark purple crimson.
Francois Levet, rosy crimson.
Frau Karl Druschki, white.
General Jacqueminot, scarlet crimson.
Jean Liabaud, deep crimson.
John Hopper, rosy pink.
Louis Van Houtte, dark cherry red.
Marshal P. Wilder, dark red.
Oakmont, soft pink.
Mrs. Sharman Crawford, rosy pink.
Prince Camille de Rohan, crimson maroon.
Pæonia, bright crimson.
Soleil d'Or, yellow.
Ulrich-Brunner, crimson scarlet.

Moss Roses.

Blanche Moreau, white.
Countess de Murinais, blush white.
Crimson Globe, crimson.
Princess Adelaide, pale pink.
Crested Moss, pink, heavily mossed.

Rugosa Roses.

Agnes Emily Carman, crimson, semi-double.
New Century, pale flesh pink, double.
Sir Thos. Lipton, white, double.
Rosa Rugosa, crimson, single.
Rosa Rugosa Alba, white, single.

Climbing Roses.

Crimson Rambler, crimson, double.
Dorothy Perkins, pale pink.
Queen Alexandra, pale pink, single.
May Queen, pink, double.
Pearl Queen, pale pink, double.
Wm. C. Egan, pale pink, double.

Forest Planting in Vermont.

Interest in forest planting has increased rapidly in Vermont since the establishment of the state nursery two years ago. In spite of the rapid extension of the nursery the supply of stock was so largely taken up last year by land owners of the state that it was necessary to import seedlings from Germany this year. Experience with this imported material in other parts of New England indicates that it is fully as satisfactory as that grown here.

Now that seedlings have been brought within the reach of all prospective planters the only hindrance to extensive reforestation is a lack of knowledge regarding the methods and cost of planting, and the profits to be derived therefrom. In order to overcome this difficulty State Forester Hawes has arranged to give a two days' course in forest planting at the University of Vermont at Burlington, April 28 and 29. This short course will comprise lectures and actual field work in all the operations of raising trees from seed, and setting out the nursery stock on the land. It is entirely free to all and no application is necessary. Applications for nursery stock or inquiries regarding the planting course should be addressed to A. F. Hawes, State Forester, Burlington, Vt.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2 ft.	$1 50	$2 75	3½ ft.	$3 00	$ 5 50
2½ ft.	2 00	3 75	4 ft.	4 00	7 00
3 ft.	2 50	4 50	5 ft.	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
18-22 in.	20-22 in.	$3 00	$5 50	18-22 in.	30-32 in.	$5 50	$10 00
22-24 in.	22-24 in.	4 50	8 00	22-24 in.	32-34 in.	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c! per doz., $4 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Roses** Dwarf, Climbing, Tree and Ramblers.

CLEMATIS, and all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.

ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft, and 4 to 5 ft. trees,
Write for descriptions and prices.

THE WM. H. MOON CO.,
Morrisville, Pa.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.

CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....

PAINESVILLE, OHIO.

The Lesser Apple Leaf-Folder.

During the past two years nurserymen in various parts of the state have reported considerable damage from an insect which is comparatively new in Iowa, the apple leaf-folder. The entomological section of the experiment station at once began to investigate the life history of this insect, and to experiment with different methods of combating it, in order to discover, if possible, some means by which it might be held in check.

The results of the experiments indicate that arsenate of lead is the most effective remedy. Directions for spraying, together with a complete life history of the insect, have just been published in bulletin No. 102, "The Lesser Apple Leaf-Folder." Copies of this bulletin may be obtained free by applying to Director C. F. Curtiss, Iowa Experiment Station, Ames, Ia.

ROSES

We have a fine stock of large, dormant, field-grown plants, on own roots, of the following varieties: Boule de Neige, Mme. Plantier, Alfred Colomb, Perle des Blanches, Climbing Clothilde Soupert, Archduchess Elizabeth of Austria, Empress of India, Glory of the Exposition of Brussels, Philadelphia Crimson Rambler, Fisher Holmes, Cheshunt Hybrid, Climbing Wootton, Magna Charta, Countess of Roseberry Louis Van Houtte, Dorothy Perkins, Anna de Diesbach, Mme. Alfred Carriere, Vick's Caprice, Sir Thomas Lipton, Francois Levet, Eugene Furst, Crimson Rambler. Price: $12.50 per 100; $120.00 per 1000.

Tausendschon, the great new climber $20.00 per 100
Crimson Baby Rambler ..... 16.00 per 100

Chrysanthemum Glory of the Pacific, fine plants from 2½-inch pots, $3.50 per 100.

Roses, Dahlias and Cannas a specialty.
Catalogue free.

The Dingee & Conard Co., West Grove, Pa.

American Everblooming Hydrangeas

Strong, field-grown plants, 15 inches and up, $2.50 per doz., $15.00 per 100; the same, 10 to 14 inches, $1.50 per doz., $10 00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000; B Thunbergii Seedlings, 5 to 7 inches, $1.50 per 100, $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3 ft. cheap.

THE E. Y. TEAS CO., Centerville, Ind.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

Rose Plants

Fine Strong, Healthy.
3-inch Pots

American Beauty	$7.00 per 100; $65.00 per 1000
Richmond	4.00 per 100; 35.00 per 1000
Chatenay	4.00 per 100; 35.00 per 1000
Ivory	4.00 per 100; 35.00 per 1000
Bride and Maid	4.50 per 100; 40.00 per 1000
Asparagus Sprengeri, 4-in. pots	$8.00 per 100
Asparagus Plumosus, 3-in. pots	5.00 per 100
Smilax, 3-in. pots	4.00 per 100

Orders should be placed at once. Stock can be shipped now or when you are ready to plant. Extra fine. Samples cheerfully furnished.

UNITED STATES CUT FLOWER CO., Elmira, N. Y.

FERNS
and ASPARAGUS.

Boston Ferns, 3-in. 8c.; 6-in. 50c each.
Annie Foster, 2¼-in. 4c.; 3 in. 8c.; 4-in. 15c, 5-in. 30c.
Piersoni, 6-in. 50c.; 8-in. $1.25 each.
Scotti and **Elegantissima,** 2¼-in. 5c; 3-in. 10c 4-in. 20c; 5-in. 40c.; 6 in 60c, each,
Whitmani, 2¼-in. 6c.; 3-in. 10c each.
Asparagus Plumosus, 3-in. 6c; 4-in. 10c,
Asparagus Sprengeri, 2¼-in. 2½c.; 3-in 5c.
Very strong plants.

MOSBAEK GREENHOUSE CO.
ONARGA, ILL.

Stock, Princess Alice, fine for Decoration Day 2-in. 1½c
Heliotrope, Stevia Variegata, Vinca Var., strong, 2-in. 2c.
Dusty Miller, 2-in. 1½c.
Geraniums, single and dbl. Grant, Nutt, Bruant, etc., 2-in. 2c. **Ageratum,** 2-in., 2c.
Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem), 2-in., 2c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, yellow; **Swainsona,** alba, $1 00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00; **Vinca Var.,** 90c, $8 00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5 00 per 1000; **Artillery Plant, Stevia,** Green and Variegated, 75c. **Parlor Ivy,** 75c
Cash or C. O. D.
BYER BROS., Chambersburg, Pa.

Rose List in Rose Pots.

	2½-in.	3-in.		2½-in.	3-in.
Am. Beauty	$6 00	$8 00	Golden Gate	$3 00	$5 00
Kaiserin	4 50	6 00	Uncle John	3 00	5 00
Bride	3 00	5 00	Wooton	3 50	6 00
Ivory	3 00	5 50	Richmond	3 50	5 00
Chatenay	3 50	5 00	Perle	3 50	5 00
Bridesmaid	3 00	5 00	La France	4 50	6 00

Our Rose stock is better than ever.
Perfectly healthy. Samples submitted.
GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

HEACOCK'S PALMS
Kentia Belmoreana

7-in. pots, 32 to 34-in. high ..... $2 50 each
7-in. pots, 36 to 38-in. high ..... 3 00 each
9-in. tubs, 42 to 48-in. high ..... 5 00 each
Made-up Kentia Forsteriana.
9-in. tubs, 42 to 48-in. high ..... $5 00 each
12-in. tubs, 4 plants in tub, 6-ft. high ..... 15 00 each
JOSEPH HEACOCK CO., WYNCOTE, PA.

PHILADELPHIA, PA.—The Germantown branch of the National Plant, Flower and Fruit Guild held a very successful plant market at Waterview park, where pot plants donated by wealthy residents were sold to the poor for nominal sums.

Vaughan's Special Offer Dormant Roses

Extra good strong stock,	Per doz.	Per 100.
Debutante, 2-yr	$1 50	$12 00
Taunusblumchen	1 50	12 00
Gruss an Zabern	1 50	12 00
Sweetheart,	1 50	12 00
Hiawatha,	2 00	15 00
Baby Rambler, 1st size, 2-yr	3 00	20 00
" " 2nd size	2 50	16 00
" " 3rd size	1 50	10 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,
P. O. Drawer V, CHICAGO.
BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

White Perfection. Our stock won the Cottage Gardens $100.00 Cup at the National Flower Show. Our stock is the best.
$3.00 per 100; $25.00 per 1000 from sand, $27.50 per 1000 from soil.

White Enchantress. We have the best stock of the pure white. $3.00 per 100; $25.00 per 1000.
Orders booked now for field-grown plants. Early delivery.
CHICAGO CARNATION CO., A. T. Pyfer, Mgr., JOLIET, ILL.

MARY TOLMAN
A new light salmon pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO
New, brilliant, glistening pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO. Joliet, Ill.**

A New Seedling Carnation :: :: :: **Conquest**
light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**
Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

ARAUCARIAS

EXCELSA
Fine Stock

5-in. 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls., 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in. high, each, **$1.25** doz. **$14.00.**

VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.

25 Barclay St., NEW YORK.

For Sale—Four Extra Large

Latania Borbonica Palms

From 10 to 12 feet high and spread in cypress boxes. Also six smaller

Latania Palms

in boxes. All splendid specimen plants. Can ship by freight after May 1.

JOHN RALPH, Saratoga Springs, N. Y.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$7 00	$65 00
Maids, grafted	3 50	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Maids	$3 00	$25 00
Brides	3 00	25 00
Poinsettias 2½-in.	4 00	35 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Leedle Roses

See column ad. and prices page 721, May 1.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

A. N. PIERSON, Inc., Cromwell, Conn.

We are booking orders now for **White Killarney** Waban Rose Conservatories' stock and **My Maryland** for early spring delivery 1909.

Send for Catalogue.

LARGEST STOCK OF ALL

Belgian Plants

AZALEAS, ARAUCARIAS, SWEET BAYS, PALMS, BEGONIAS, GLOXINIAS, ETC.

LOUIS VAN HOUTTE, PERE,
GHENT, BELGIUM.

Asparagus and Smilax

	Per 100	1000
Plumosus, fine stock, ready now	$3 00	$25 00
Sprengeri, ready June 1st	1 50	15 00
Smilax, ready June 1st	1 50	15 00

Specially grown and extra fine
Lots of 10 000 or over at special prices.
Samples for 10c.

ALBERT M. HERR, Lancaster, Pa.

ROSES

		Per 100	Per 1000
Beauties,	4-in., extra strong	$12 00	$110 00
"	3-in	9 00	80 00
"	2-in	6 50	60 00
Rhea Reid,	2½-in.	5 00	45 00
" "	3½-in.	6 50	55 00
Cardinal,	2½-in	6 00	
Bride, Maid, Potter Palmer, Kaiserin,	2½-in	5 00	45 00
	3½-in	6 50	55 00

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now, R. C...$2 50 per 100; $20 00 per 1000
2½-in ..... 3 00 per 100; 25 00 per 1000

No more Virginia Poehlmann R. C. or 2½-in. until June 15.
For other varieties of 'Mums see classified adv.

SPRENGERI, strong, 3-in...$4 00 per 100; $35 00 per 1000
SMILAX, 3-in..... 4 00 per 100; 35 00 per 1000

Carnations Sarah Hill, 2½-in.....$3 00 per 100
Lloyd, 2½-in..... 2 50 per 100

Above is all choice stock, guaranteed to please.
2 per cent off for cash. Terms: 30 days net.
Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

GRAFTED ROSES

One Slected Manetti.

Clean, healthy wood. Grown especially for grafting.

Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley,
$12.00 per 100; $100.00 per 1000.

My Maryland, $20.00 per 100.

Rhea Reid, $15.00 per 100.

(Orders booked now and plants held till you are ready for them after the Easter rush, or later.)

JACKSON & PERKINS CO., Newark, New York.

Roses! Roses! Roses!

GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond, Rose pots, $15.00 per 100; 3½ in. pots, $18.00 per 100. Brides, Bridesmaids Golden Gates Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney American Beauty, 3-in. pots $9.00 per 100; 4-in. pots $12 00 per 100. Brides, Bridesmaids, Perle 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio.

SPECIALTIES.

ROSES. from 3-inch pots. CHRYSANTHEMUMS.
CARNATIONS, for fall delivery. SMILAX. VIOLETS.

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** Office and Store: 76 Wabash Ave., CHICAGO

Pansies

50,000. The best Market Strain in New England.

Fall transplanted; in bud and bloom. $1.25 per 100; $10.00 per 1000.

Cash with order.

CHARLES POTTER,
West Boylston, Mass.

New Carnation Lucille

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25 00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

COLEUS In 10 very best Varieties

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones.

$2.00 per 100; R. C., 75c per 100.

CANNA, Pennsylvania, started, strong plants, $2.00 per 100; $10.00 per 1000.

Boston Fern, 2-inch, $3.00 per 100.

WALTER W. COLES, Kokomo, Ind.

FOR SALE.

Stevia out of 2-in., variegated.....	2.00 per 100
Dracena Indivisa out of 2-in.....	2.00 per 100
Clematis Paniculata, out of 3-inch very strong	5.00 per 100
Clematis Paniculata, out of 2-inch extra strong.....	2.00 per 100

Cash with order.

SAMUEL V. SMITH, 3323 Goodman Street, Philadelphia, Pa

CARNATIONS

Rooted Cuttings

	Per 100	1000
Mrs. J. C. Vaughan, ...	$12 00	$100 00
O. P. Bassett, ...	8 00	60 00
per 500 .. ..$35 00		
Mrs. Chas. Knopf, ...	12 00	100 00
Ruby,.....	12 00	100 00
Afterglow,.....	5 00	45 00

	Per 100	1000
Rose Pink Enchantress	3 00	25 00
Sarah Hill,.....	5 00	45 00
Winona, ...	5 00	45 00
Winsor,.....	3 00	25 00
White Enchantress,.....	4 00	35 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph Street, CHICAGO. 25 Barclay Street, NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS. SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter; compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

ANNOUNCEMENT

We have arranged with **MESSRS. PATTEN & CO., Tewksbury, Mass.,** to grow part of the stock of our

New White Carnation Shasta

and to assist us in disseminating it next season, 1910. Orders entrusted to them will receive the same careful attention as those sent to us. We have 12,000 plants between us

Shasta scored 89 points at the A. C. S. Convention, Jan. 27-28, 1909, and was generally conceded to be the best looking new variety in the whole show.

It Is a Money Maker for both Grower and Dealer.

Orders are being booked by Messrs. Patten and ourselves at **$12.00** per 100; **$100.00** per 1000. Dealers will please write for discounts.

BAUR & SMITH, 38th St. and Senate Ave., Indianapolis, Ind.

GET NEW CUSTOMERS By placing your specialties before the purchasing florists of the entire country by advertising in

Send Copy Now. THE AMERICAN FLORIST.

CLARKSVILLE, TENN.—M. E. Heitt was the victim of an outrage Sunday, April 18. While he and his family were sitting on the front porch about 9 p. m. some one fired three shots from the steamer Buttorff, which was proceeding up the river. The shots crashed into Mr. Heitt's greenhouse, standing within a few feet of his dwelling. The weapon used was a Winchester rifle.

THE BELFAST CHRYSANTHEMUM

The Queen of Winter.

The most profitable 'mum in sight for Christmas and later. Easily sells for one third more than Nonin or any other variety. Size, color and keeping qualities is what does it. Can be had all through the winter by propagating and planting late. They are fine to follow early 'mums: of the very **largest size.** Color, light-pink to cream-white. Perfectly healthy and easy to grow. A seedling of W. H. Chadwick and Western King.

Extra large cuttings from soil or sand, **$2.50 per 100; $18.00 per 1000.** Prepaid.

WILLIS E. HAMILTON, Belfast, Me.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

.....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

10,000 Geraniums

Mme Salleroi, Red, White, Salmon, Pink, 2½, 3 and 4 in.

1000 Amerpohli
1000 Whitmani **FERNS**

Special, $7.50 per 100.

Ask for anything you need in **Soft Wooded Plants.**

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

2½-inch Stock Chrysanthemums Ready

Golden Glow, Pacific Supreme, White Cloud, Lynnwood Hall $5.00 per 100; Golden Eagle, $10 00 per 100; Virginia Poehlmann, Alice Roosevelt, $4.00 per 100, $35.00 per 1000; October Frost, Appleton, White Bonnaffon, Touset, and run of commercial sorts, $3.00 per 100, $25.00 per 1000.

Cash, please.

I. M. RAYNER, Greenport, L. I., N. Y.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

CHRYSANTHEMUMS

I have now ready 100,000 plants from 300 varieties,

Large Flowered, Singles, Pompons, etc.

These are fine stock from 2¼-inch pots.

All the Standards such as:

Robinson, Bonnaffon, Duckham, Clay Frick, Beatrice May, Mrs. Partridge, Polly Rose

—In Large Quantities, at—

$3.00 per 100; $25.00 per 1000.

Write me what you want and see what I can do for you

CHARLES H. TOTTY, Madison, N. J.

COMMERCIAL CHRYSANTHEMUMS...

For varieties and prices see page 667 of AMERICAN FLORIST for April 24.
Also full quota of other kinds suitable for any purpose.

ELMER D. SMITH & CO., Adrian, Mich.

CANNAS

	Per 100
10 varieties, 3-in. pots, April 25	4 00
Alternantheras, red and yellow	2 00
Coleus, 10 varieties	2 00
Verbenas, April 25	2 00
Vinca Var., 2¼-in. pots	2 50

GERANIUMS

	Per 100
8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in pots	4 00
Double Petunias	3 00
Asp. Sprengeri, April 25	2 00

Asparagus Plumosus Seed, new crop.....$2 00 per 1000

Cash.

JOS. H. CUNNINGHAM, Delaware, O.

CHRYSANTHEMUM MANUAL.

BY ELMER D. SMITH.

THE BEST BOOK ON THE SUBJECT.

New and Revised Edition.

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WE ARE NOW BOOKING ORDERS. PRICE, 40 CENTS, CASH WITH ORDER.

The American Florist, 324 Dearborn Street, Chicago.

Miscellaneous Plants

Cannas, King Humbert, 3-in. pots, $5.00 per 100.
Carnations, R. C., from soil, $2.00 per 100—Pink: Dorothy; Scarlet—Elbon.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in. pots, $5.00 per 100.
Clematis Paniculata, 3-in. pots, $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties; Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Geraniums, best commercial varieties, 3-in. pots, $4.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100.
Vinca Variegata 2½-in. pots, $3.00 per 100.
Lobelia, Double blue, 2½-in. pots $3.00 per 100.
Moonvine, The true large flowering white, 2½-in. $3.00 per 100; 3-in. pots, $4.00 per 100.
Funkia Variegata $4.00 per 100.
Cobea Scandens, 3-in. pots, $4.00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Phlox, Drummondi, dwarf; Lobelia, Emperor William; Salvia Bonfire and Zurich; Saxifraga Sarmentosa; Verbenas; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia, California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus, Verschaffeltii and Golden Bedder quadricolor; Golden Feather.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

Geraniums

	Per 100
4-inch stock, 15,000 plants, cool grown, 6 standard varieties, without pots	$6.00
Mme. Salleroi, 2-in., $1.50 per 100; $12.50 per 1000	
2½-in. 2.00 per 100; 18.00 per 1000	
Rose Geraniums, fine 4-in	$7.00 per 100

BEDDING AND OTHER STOCK.

English Ivy, 4½-in., 3 to 4 ft. long, fine stock	15c each
Vincas, variegated, extra large, 3-in.	$3.00 per 100
Grave Myrtle, 2½-in., 2½c.	
Petunias, double, mixed varieties, 2c.	
Fuchsias, 2-in.	$3.00 per 100
Swainsona, extra large flower, pure white, 2½-in.	2.00 per 100
Coleus, R. C., 8 varieties	.75 per 100

N. C. MOORE & CO., **Morton Grove, Ill.**

Begonia Gloire de Lorraine

Strong 2½-in. pot plants, leaf cuttings, $15.00 per 100; $140.00 per 1000.

POINSETTIAS.

2½-in. $5.00 per 100; $45.00 per 1000

CYCLAMEN.

3-in. $7.00 per 100 4-in. $15.00 per 100
5-in. $25.00 per 100

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

Geraniums..

Best Varieties.

2½-in., ready for 4-in., $2.00 per 100; 300 for $5.00
Ivy Geraniums and Salleroi, 2½-in., same price.

Cabbage Plants, all kinds $1.00 per 1000
$8.00 for 10,000.

Tomatoes, best varieties $1.50 per 1000
Cauliflower, Snowball 2.50 per 1000
Egg Plants and **Peppers** 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

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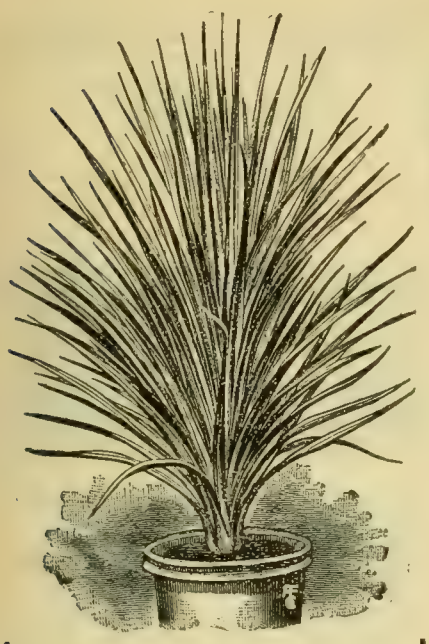

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Size	Doz.	100
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3-in. pots	per doz.,	$1.00
4-in. pots	per doz.,	1.50

English Ivy

4-in. pots	per doz.,	$1.50
5-in. pots	per doz.,	2.00

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	Doz.	100
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Fashion, crimson maroon	.75	5.00
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Sunningdale, mixed, all colors	....	3.00
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	Doz.	100
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Oban, rosy lavender	1.25	10.00
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3-in. pots	3 00
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Vinca Variegata (Periwinkle), 3-in.	$4 00 to 5 00

	Per 100
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Boston Ferns, 5-in., 30c each.

Vinca Var., 2-in., $2.00 per 100. 3-in., $5.00 per 100.

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Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia), Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas. Ageratum,** blue and **Heliotrope.**

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Ageratum, Dwarf Blue, 2½ to 3	2 50- 3 00 per 100
Cobeas, 3-in.	5 00 per 100
Coleus, 2¼ to 3-in.	2 00- 3 00 per 100
Dracæna Ind., 3-in.	5 00 per 100
Dusty Miller, 2¼-in.	2 00 per 100
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Carnations, Enchantress, Lady Bountiful, $2 per 100. Rose Pink Enchantress, Victory, White Perfection, Winsor, Aristocrat, $2.50 per 100. Perennial Gardens Co., Toledo, O.

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Chrysanthemums, 2½-in., Golden Glow, Pacific Supreme, White Cloud, Lynnwood Hall, $5 per 100. Golden Eagle, $10. Virginia Poehlmann, Alice Roosevelt, $4 per 100; $35 per 1,000. Oct. Frost, Appleton, W. Bonnaffon, Touset, Bonnaffon, $3 per 100; $25 per 1,000. I. M. Rayner, Greenport, L. I., N. Y.

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Clematis paniculata, 4-in., $1.50 per doz.; $10 per 100; 3-in., $5 per 100; large flowering vars., $3 per doz. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

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Clematis, Bobbink & Atkins, Rutherford, N. J.

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Roses, Bride, Richmond, Killarney, 2½-in., own roots. Thorn Hedge Greenhouses, Newtown Square, Pa.

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Salvias, 5 varieties, R. C., $1; 2¼-in., $2.50 per 100; Zurich, 2¼-in., $3 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Salvias, 3 vars., 2½ and 3-in., $2.50 and $3 per 100. West End Greenhouses, Lincoln, Ill.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia Bonfire, 4-in., $8 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

Salvias, 2½-in., $2.50; 3-in., $7.50; 4-in., $12.50. Geo. A. Kuhl, Pekin, Ill.

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MANUAL OF THE TREES OF NORTH AMERICA (Sargent).—The most complete and authentic work on the subject. The pages number 826, with over 600 illustrations. $6.00.

THE ROSE.—Its cultivation, varieties, etc. (H. B. Ellwanger).—A complete guide of the cultivation of the rose, together with the classification of all the leading varieties. $1.25.

AMERICAN FLORIST CO. 324 Dearborn St., Chicago.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Nashville.

Spring festival week, while not directly responsible, witnessed a brisk trade along all lines, all retailers reporting a busy week and fine trade. Spring flowers, snowballs, syringa, spirea, iris and lily of the valley have been abundant. These have been brought in from country gardens and placed on sale with confectioners and even in dry goods stores. Prices were extremely reasonable, lily of the valley selling at 40 and 50 cents per 100. They are unusually fine this season for outdoor stock, and very fragrant. These garden flowers have furnished the larger part of the spring social affairs. Peonies are beginning to come; the deep crimson, rivaling an American Beauty rose in color, is already in bloom. In a little while all peonies will be abundant.

NOTES.

L. Haury & Son have a place very near the city containing five acres, with greenhouses of 20,000 square feet. They have grown quantities of lettuce this season and find a ready sale for all they market. They also grow radishes, cucumbers, cauliflower and other vegetables. They expect to erect another range of houses this season, doubling their capacity and will grow more flowers.

The usual Saturday market of flowers was excellent, particularly in bedding plants. McIntyre Bros., L. Haury & Son, Arnold Schmidt and J. T. Dawson were some of those noted present last Saturday. The day was cool, and quite a number of small growers were not represented, but those who were there were doing a good business in plants.

The estate of Jacques Barat, who died some months ago, is still unsettled, and Leon Geny, administrator, has filed another bill to readjust and settle the claims of the numerous heirs who were discovered abundantly.

Geny Bros. have been showing especially fine carnations and roses, also many Easter lilies still on hand. They have had an unusual run of funeral work.

The Joy Floral Co. has had splendid Killarney roses and Kaiserin is beginning to come in very fine. Business here has been excellent.

M. C. D.

Galveston, Tex.

A $50,000 company for growing cut flowers, palms and all tropical trees and plants on a large scale is being organized here. Although the names of the promoters of the enterprise are withheld from publication, the men behind the scheme are among the most successful men in that trade in this state, and are enterprising business men as well. The scheme is to secure a large tract of land on the island and keep the grounds in a high state of cultivation, growing the hardier trees, flowers and plants in the open, the more delicate ones being taken care of in greenhouses. Several acres will be planted in palm trees alone, and as the young trees become marketable they will be shipped away.

The promoters of the company are working on the plan that there is nothing of the nature this side of St. Louis and instead of florists in Texas and adjoining states sending north to get their cut flowers they can be supplied in profusion here, and reach the customer much quicker and in fresher shape. Cut flowers sent here from St. Louis lose a great deal of their beauty and fragrance during the 48 hours necessary.—Galveston Tribune.

GRAND RAPIDS, MICH.—The Grand Rapids Greenhouse Co. has disposed of the last of its stock of 2,000 Asparagus plumosus, the sales being scattered over almost every state in the Union.

Dearborn Engraving Co.

Designers, Printers & Engravers

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"STANDARDS"

FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.

HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St.

Wired Toothpicks

10,000, $1.75: 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers

NEW CASTLE, IND.—Herbert Heller, manager of the South Park Floral Co., was taken to Reid Memorial hospital April 26 to receive treatment. Mr. Heller has been ill for several months. He was accompanied to this city by his brother, Myer Heller, and by his wife, who will be the guest of her brother, Arthur Smith, while her husband is confined to the hospital.

Standard Flower Pots!

Packed in small crates, easy to handle.

	Price per crate			Price per crate
1500	2-in., in crate,	$4.88	144	6-in., in crate, $3.16
1500	2¼ "	5.25	120	7 " 4.20
1500	2½ "	6.00	60	8 " 3.00
1000	3 "	5.00		HAND MADE
800	3½ "	5.80	48	9-in., in crate, $3.60
500	4 "	4.50	48	10 " 4.80
456	4½ "	5.24	24	11 " 3.60
320	5 "	4.51	24	12 " 4.80
210	5½ "	3.78	12	14 " 4.80
			6	16 " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.

361-363 Herndon St., CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for Price

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1521 Leavitt Street, CHICAGO

The Regan Printing House

LARGE RUNS OF

CATALOGUES

OUR SPECIALTY

WRITE FOR FIGURES.

83-91 Plymouth Place, CHICAG

Cincinnati.

STOCK PLENTIFUL.

Trade conditions remain about the same as last report. Stock is coming along in vast quantities and it takes some tall hustling to move it. One redeeming feature is the good call for sweet peas, daisies, snapdragons and outdoor daffodils. These are practically cleaned up every morning. Roses and carnations are a glut. Green goods are becoming scarcer every day and it is a difficult matter to fill an order for 100 strings of smilax. The demand of course is on the increase for this line of goods. One day last week the supply of fern leaves had reached such a low ebb that it was a difficult matter to get them in any of the wholesale houses. The next day, however, there was a bountiful supply, there being one express wagon full of boxes containing ferns distributed among the different houses and everybody was happy.

NOTES.

Henry Schwarz, Norwood, reports business first class and states that he was very busy for the spring carnival celebrating the twenty-first anniversary of this thriving town. Henry is trying to find out who made the bouquet that was presented to a friend of his in the parade that had a bunch of lemons attached to the stem.

Charles McRae of Hardesty & Co. spent a few days last week at Maysville, Ky., doing the decorations for the wedding of Lieutenant-Governor Cox's daughter. Charley said he encountered some genuine Kentucky hospitality and would not mind working for these people the rest of his life.

Will Murphy and Tom Windram have returned from Mr. Windram's asparagus farm down in Florida. Will Murphy said it was very hot down there, the thermometer registering 86° in the shade, the evenings, however, being delightfully cool; but he could not get used to the mosquitoes.

Ernst Mack of Price Hill has been sending some exceptionally fine Lilium longiflorum blooms to this market, for which he received top prices. His present crop is about over, but his son George claims he will have another fine lot for Memorial day.

E. George Tromey says business has been quiet the past week and he is glad of it, as it will give him a chance to catch up with some of his work that had to be neglected during the rush, which has been very prevalent all winter.

Weiland & Olinger's American Beauty roses are again in crop and they now receive two shipments a day from their New Castle, Ind., greenhouses.

E. G. Gillette, who is holding down the lid owing to the absence of his partner, Clarence Ohner, is handling a nice lot of American Beauty roses.

A. Sunderbruch's Sons had the bulk of the work for the funeral of Captain King of King's Mills. Some very classy designing was noticed.

The J. M. McCulloughs Sons Co. is handling some nice snapdragon and sweet peas grown by Tom Windram of Cold Springs, Ky.

Barr's windows were nicely decorated last week, one being in lilac and Lilium longiflorum, the other in Narcissus poeticus.

S.

MONTICELLO, IND.—Fred Roberts is building a greenhouse alongside his residence and proposes to go into the business rather extensively.

PORTLAND, ORE.—The state building at the Seattle fair is to be decorated with Portland roses on the opening day, June 1, and on all other special occasions. Growers will be given notice when to ship by the Oregon state commission, under whose auspices the exhibition will be held.

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers. Write for catalog and full information.

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Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

THE STANDARD VENTILATING MACHINERY

The original machine with self-oiling cups. The most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter

Over six miles in use and highly recommended by all. The only Drip Proof gutter on the market.

The Standard Return Steam Trap

It has no equals for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, Ohio.

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The first special newspaper in the world for floral arrangement.

250 ILLUSTRATIONS ANNUALLY.

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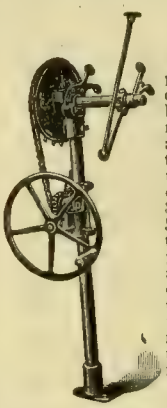
FLORISTS' SUPPLIES

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware, pottery, Decorative Greens and all Florists' Requisites.

The Advance Ventilating Machine



Is in use in 40 states, has pleased and is pleasing hundreds of florists. Made of the best material, in a mechanical manner, it will last and is always ready for work. It will take care of all the ventilation that the shafting pipe will carry. Our shafting pipe at 8c for the double strength and 5c for the single strength, is the best grade, new pipe, all painted, straightened, drilled and furnished with our patent couplings and will satisfy you that we are moderate in our profits. Get our estimates, net prices and circular. Give us a trial. We guarantee satisfaction or your money back.

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Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

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76-78 Wabash Ave., CHICAGO

H. BAYERSDORFER & CO.,

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA

Send for our new catalogue.

PORTLAND, ORE.—At a recent meeting of the Rose Society the various committees on decoration, classification, awards, etc., were appointed and the dates for the annual rose festival fixed for Tuesday and Wednesday, June 8-9. The display will be confined to roses grown in Multnomah county.

WASHINGTON, D. C.—Vine day was observed in the public schools of this city, April 26, the school children planting slips and seeds of vines of many varieties that are to cover the walls of the schoolhouses and fences and hide their former bareness and unsightliness.

Milwaukee.

STOCK IN SHORTER SUPPLY.

The weather man has handed us an assortment of weather this week that is very difficult to beat for nastiness, and small wonder, therefore, that stock of all kinds has shortened up considerably with a rise in price. There are still sufficient roses for all needs, but carnations were rather short; especially was this true on Saturday. Sweet peas are now at their prime, with fine call for the extra fine stock. Violets are almost past and it is well, as the demand for them has dropped down to almost nothing. There is a fine call for American Beauty roses, which are coming in fine condition. Lily of the valley is scarce, but will soon be in sufficient supply. Green goods are plentiful, excepting smilax.

NOTES.

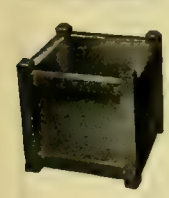
Holton & Hunkel Co. is receiving fine shipments of American Beauty roses from its Brown Deer greenhouses, also very choice sweet peas.

Mueller & Schroeder are now cutting some very fine snapdragon, for which there is a good call.

Fred Schmeling has been in bed for two weeks suffering with rheumatism.

H.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.

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Le Journal des Roses

Organ of the French Rosarians.

Published at Paris. Once a month with colore plates.

Subscription $2.70 per year. Sample copies free

ADMINISTRATION DU **JOURNAL DES ROSES**

a SUISNES, Brie

Par Grisy-Suisnes. (Seine et Marne), FRANCE.

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BURNLEY, ENGLAND.

Artistic Window Boxes and Jardinieres.

807 Jardiniere.

The largest and most artistic assortment on the market; manufactured exclusively by us. These goods are in big demand over the entire country by the most exclusive trade. Made of a composition which makes them strong and durable, as well as beautiful. Finished in antique old Ivory, and unequalled in workmanship and beauty. Our name is stamped on the bottom of each piece.

We make the same assortment in Cement for outdoor uses; prices will be given on application.

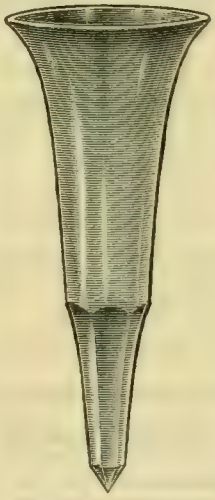
We are in the center of the wholesale floral district and invite all the florists to call and see our line.

An illustrated circular and price list will be mailed on request.

Our goods are now handled by the most exclusive trade.

802 Window Box.

THE FLORENTINE ALABASTER CO., 52-54 Wabash Ave., CHICAGO.



Clara Cemetery Vase

MADE OF SOLID MOULDED GLASS.

12 inches high, with wide flaring mouth. Can be supplied in green or white. Doz., $2.50; barrel of 3 doz., $6.00, f. o. b. Chicago.

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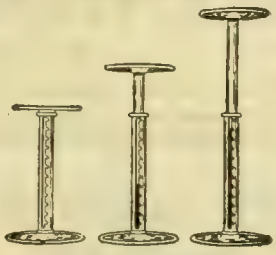

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Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

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SAY SO IN YOUR NEXT ORDER.

Best Quality. Hand-made

Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

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Baur Window Glass Co.

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MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.

12 W. BROADWAY

NEW YORK

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

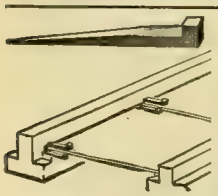
THE BEST WAY

to collect an account is to place it with the

National Florists' Board of Trade

56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



Siebert's Zinc Glazing Points.

Good for small or large glass, do not rust, easy to drive 5/8 and 7/8 inch. Per lb. 40c. 5-lbs. $1.85. 20-lbs. $7.00.

VAUGHAN'S SEED STORE, Chicago or New York.

Albany, N. Y.

Wm. C. Kurth and Eli D. Burke, formerly in the employ of H. G. Eyres, have bought the retail store of Rheinhold W. Zobel, 518 Broadway, and took hold May 1. They will conduct business under the style of "The Broadway Florists." Both are experienced in the retail business and their friends are hopeful of success. Burke had been in the employ of Mr. Eyres since the latter started into business about 24 years ago. Kurth had been with the same employer for 19 years. The firm has at present no greenhouses. Mr. Zobel has also sold his greenhouses at Garbrance lane and the Troy road to Fred Keller, Jr., of New York, son of the well-known florist. Mr. Keller will assume charge of the Zobel plant on May 15. Mr. and Mrs. Zobel about the end of May will leave this country for Germany where they will spend some time and may conclude to remain permanently. They have been in this country about 25 years and are well known to the trade in Chattanoga, Tenn., and in Newark, N. J., and vicinity, where they were in business before coming here three years ago.

R. D.

ATHENS, O.—The contract for the new greenhouse on the state hospital grounds has been let and work will begin at once. The building is to be 28x150 feet.

Attention!! Glass Buyers!!

GREENHOUSE GLASS.

You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint

The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

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WHOLESALE GLASS AND PAINTS,

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Don't Buy the "Just as Good" Kind

Insist upon "the best" brand

Greenhouse Glass

Made by the

World's Largest Producers

Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

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A SPECIALTY.

Window Glass, Paint, Putty, etc.

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in carload lots or less direct from factory.

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Lock the door before the horse is stolen, and insure your glass before it is broken.

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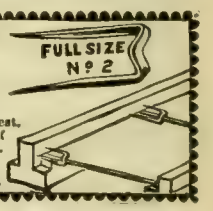
Holds Glass Firmly

See the Point

PEERLESS

FULL SIZE No 2



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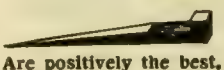
HENRY A. DREER, 714 Chestnut St., Phila., Pa.



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Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes 5/8 and 7/8, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE.

Furnishes the Most Nicotine for the Money!

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

By far the CHEAPEST.

JUST NOTE PRICES!

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
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LATEST DISCOVERY

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INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
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THE BEST Bug Killer and Bloom Saver

For PROOF Write to

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A Knapsack Sprayer

With power for Greenhouse and Lawn spraying—nothing like it. Send for photograph and description.

Our Bordeaux Paste and Bordeaux Arsenate

DEATH TO MILDEW AND BUGS.

Why worry when you can have healthy plants and perfect bloom? Don't delay, write us and see what we have to offer you. Address.

NIAGARA SPRAYER CO.,
MIDDLEPORT, N. Y.

Green Flies and Black ones too
are easy to kill with
The Fumigating Kind Tobacco Powder
$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

WIZARD BRAND MANURES

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE
FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use 1 part to 75 or 100 parts of water.

B. G. PRATT CO., 50 Church St., New York, U. S. A.

"Natural Guano" PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

Indianapolis.

PRICES HIGHER.

After a spell of beautiful spring weather, an abundance of cut flowers of all kinds and no demand to speak of at the beginning of May, conditions changed suddenly to February weather, unusually good demand and shortage of stock, and prices accordingly took an upward turn. Notwithstanding the wintry weather the market men reported very satisfactory sales of all kinds of pot plants. The severe wind and hailstorms that swept this state fortunately did not do any serious damage in this county.

NOTES.

H. W. Rieman finds it necessary to increase his store force; his trade is growing even faster than the younger generation of Riemans.

Herbert Heller's numerous friends are grieved to learn that he is again under the weather. We all hope for his speedy recovery.

John Heidenreich has a fine crop of Kaiserin roses coming on and some benches of schizanthus are a novelty for this city.

A placard in the show window of Benson, the Florist, reads: "We give the earth with every plant."

John Rieman's daughter, who was seriously ill last winter, is improving rapidly.

Martin Brandlein has improved his store by adding a well-arranged flower cellar.

Ed. Allender, well known to the local trade, is again with F. R. Conway.

John Elsner's daughter, Elizabeth, was married to Frank Stickhan.

Anthony Wiegand and wife will spend the summer in Europe. J.

The Burnham

Send for Catalog.

Lord & Burnham Co.,

Main Sales Office:
1133 Broadway, New York.

Boston: 819 Tremont Bldg.
Philadelphia: 1215 Filert St.

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

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S. WILKS MFG. CO.,

3525 Shields Ave. CHICAGO.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Chicago.

Announcement is made that on Friday evening of this week prize handicap bowling will be in order. The scores April 30 were as follows:

J. Byers	135	123	128
E. F. Winterson	185	191	126
Geo. Pieser	152	165	117
J. Zech	164	178	199
	636	662	570
E. Farley	109	106	138
A. Zech	157	159	189
F. Pasternick	145	162	125
E. Schulz	170	139	101
	581	566	553
F. Kraus	89	95	109
W. Graff	141	159	169
A. Fischer	195	198	154
Otto Goerisch	144	118	125
	569	570	551
M. Tribble	128	156	125
F. Ayers	129	187	168
E. Armstrong	122	92	110
J. Kruchten	112	155	177
	491	590	570

Boilers, Tubes, Flues, Etc.,

at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler. 60 horse power, 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!

A complete line of locomotive, fire box boilers, Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc., some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.
4-72x18 Horizontal tubular boilers, 100 lbs. pressure.
4-72x16 Horizontal tubular boilers, 95 lbs. pressure.
2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.
2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

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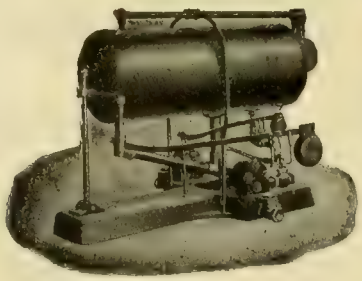

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It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

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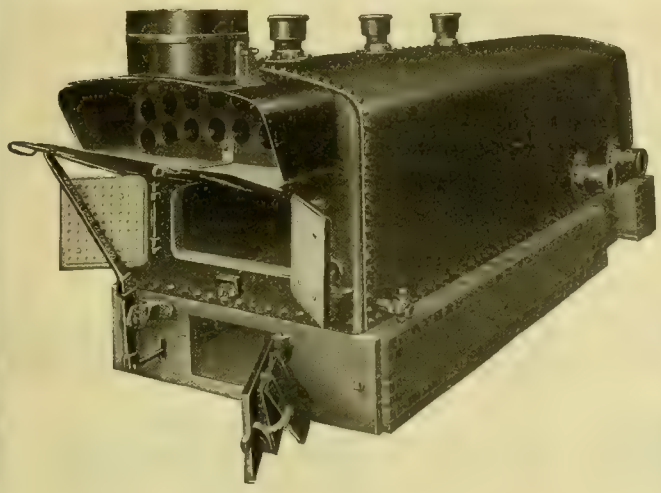

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THE BOILER AND PIPING SYSTEM, I CAN SAY, IS PERFECT IN EVERY WAY. With the Generator **I can keep low temperatures,** or can get the pipes **so hot we cannot touch them.** In less than twenty minutes all houses are thoroughly and equally heated, no matter how many coils are turned on, and all this is due to the Generator, which costs only $35.00

I feel that **no hot water system should be without a Kroeschell Generator.** Yours truly,

RUDOLPH NAGEL, Lancaster, Pa.

We had no trouble whatever in keeping the required temperature during the recent cold spell **with thermometer at 12 degrees below zero.**

We are glad of the opportunity to **recommend your Generator, Boiler** and **piping plans** to our fellow florists, knowing that when placed as directed they **will give perfect satisfaction. We did our own piping,** and none of us had ever had any experience in that line before. Hoping this will be of some benefit to you, and thanking you for past kindness, we remain,

Very truly yours

NORTH FLORAL COMPANY, Fort Dodge, Ia.

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1346 Cast Iron Boilers were replaced by "THE KROESCHELL" in 1904, 1905, 1906, 1907,

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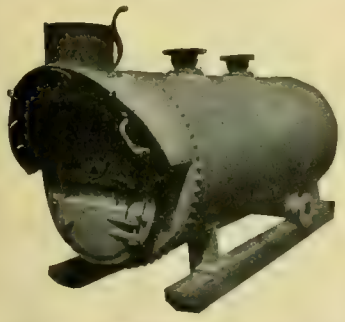

No brick foundations required; can be cleaned while in use; shipped on skids ready for installation. Specially designed for greenhouse use.

Investigate before buying.

Catalogue and Prices on Application.

Superior Machine & Boiler Works,

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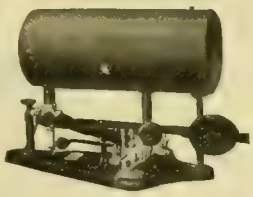

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Return Steam Traps

Have been in use by florists for over **20 Years.** Could a better proof of efficiency and satisfactory service be furnished.

The Floral Establishment of Mr. George Reinberg, Chicago, Ill., is equipped with **24 Morehead Traps.** Repeat orders. See the point?

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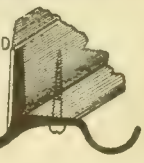
THE JENNINGS IMPROVED IRON GUTTER.



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S. W. Corner Sixth and Berk Streets, PHILADELPHIA.

VENTILATING APPARATUS.

Newark, N. J.

The parks are now fine in their spring dress. Branch Brook park heads the list. This always beautiful park will present a wonderful improvement this year. The floral display is one with which to conjure. There were planted this spring nine beds or groups of pansies, in all just 22,000. The beds are distributed through the park and make a splendid showing. Last fall 60,000 bulbs were planted. Of these 10,000 were daffodils, 8,000 hyacinths and 42,000 tulips. Then there are all kinds of beautiful shrubs which bloom annually about this time of the year. These bushes include the golden bell, the bridal wreath and the Japanese quince.

At Waverly park there is a bed of 4,000 pansies. Last fall 15,000 bulbs were planted, of which 5,000 are daffodils and 10,000 are tulips. In East Side park no pansies were planted this spring. Last fall 10,500 bulbs were planted, of which 500 are daffodils and 10,000 tulips. In Orange park 20,000 bulbs were planted last fall. All are tulips. In all the parks the full complement of employes is at work mowing lawns and getting into shape.

What Are You Watching?

The bunghole or the spigot? If anyone should point out to you that while you are watching so carefully that half pint coming out of the spigot—three gallons were pouring out of the bunghole—you would stop the leak at once, that's sure.

Now, tell us where is the difference in buying an all-cypress house with a price that sounds cheap, when in a year or two you begin to put your profits into repairs instead of in the bank? There's no house built that will grow better plants than our Flat Iron Rafter House, or that is as downright cheap in the end. We want you to take this argument up by mail—we will answer your letter that very day.

Hitchings & Company
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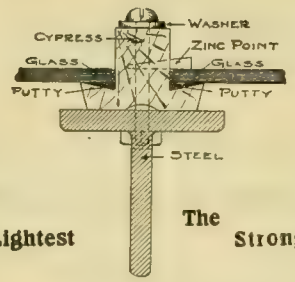

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PECKY CYPRESS

Any Size or Length.

It is the Ideal Lumber for Greenhouse Benches.

LASTS FOREVER.

THE FOLEY MFG. CO.
26th and Western Ave., CHICAGO.

San Francisco.

TRADE SLOW.

Ever since Easter business has been exceedingly slow, an occasional funeral order being about all we have to depend on. As flowers of every kind are plentiful, prices are correspondingly low. Carnations especially have been brought in lately in such quantities that they can be bought at any price. Lilies also are quite plentiful and cheap. There are some very fine tulips to be seen around the different stores, mostly Darwin and Gesneriana. Chas. Stappenbeck is getting (every day) large shipments of these in most exquisite colors with long stems and fine large flowers. Sweet peas and Spanish iris, which are coming in a little more freely, are finding a ready sale at fair prices. H. Goertzhain has a nice lot of Gladiolus The Bride in bloom, and Ferrari Bros. are bringing in that pretty variety Blushing Bride. Lily of the valley is in fair supply and always disposed of.

NOTES.

J. Fotheringham, of the F. R. Pierson Co., and G. M. Reburn, of Vaughan's Seed Store, have been in town the last week. Both are reporting business as very satisfactory.

D. Garibardi, Colma, is building two new greenhouses, each 25x150 feet, in which he intends to grow Asparagus plumosus and adiantum for this market.

J. C. Vaughan, Chicago, through his representative, G. M. Reburn, treated several of his local friends to a most enjoyable banquet the other night.

H. Kessel, of 448 Thirty-second avenue, proposes to rent his place next fall, but first intends to erect several more greenhouses. P.

A FLORAL PILLOW.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, MAY 15, 1909. No. 1093

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.
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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres., W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

AMERICAN PEONY SOCIETY.

Sixth annual meeting at Queens, N. Y., June 1909. C. W. WARD, Queens, N. Y., Pres.; A. H. FEWKES, Newton Highlands, Mass., Sec'y.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the every day florist is called upon to perform

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue, as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Feeding Peonies.

Although it is much too late to make up for deficiencies in soil and culture, if these have been allowed to exist, much may be done by careful cultivation of the soil and feeding to insure substantial flowers. If the surface soil is beaten down hard, let this be broken up with forks or hoes, admitting air and sun. Avoid the crowns of the plants and see that they are not injured. At the second or third hoeing the soil may be banked a little to the rows, leaving a depression around the plants to facilitate the application of manure and water and to insure the roots the benefit of the warm spring rains. A little of a good quick-acting fertilizer scattered about the plants will also be of great benefit, and this should be lightly stirred in with the hoe, before a rain if possible.

Hardy Annuals.

If these are neglected now they may as well be thrown away, for they will be useless. They must be kept growing from the start. As the sweet peas develop see that some support is given before they fall over or they will be checked. The material used for support depends upon circumstances, and there are worse methods practiced than the old plan of using brushwood. Keep the hoe going between the rows, and if there is any doubt about the condition of the soil, give a good sprinkling of superphosphate along each side of the rows. Asters should by now be in their flowering quarters. If the soil is good and well prepared, one or two waterings will settle the plants in and start them going, but if convenient to the water supply a good washing from the hose two or three times a week in fine weather is a great help. Plant out Iceland and other poppies. These are not strictly annuals but are more profitably grown that way. We usually plant these in small patches of half a dozen or so lifted direct from the seed flats. It is too much trouble to single them and no advantage. Give ten-week stocks an open position if possible but not a wind-swept one. Three plants in a patch at one foot apart each way is a good planting scheme for cutting purposes. Where the sowings of godetias, eschscholtzias, cornflowers, African marigolds and similar plants are coming up, thin them early to prevent their running up to flower weakly and place a little brush in the rows or patches. This will protect the seedlings a little from cold winds and form a support to the stems later. The annual chrysanthemums are a most useful class, and it is not too late to sow. C. segetum, the bright yellow single variety, grows anywhere and anyhow, but the tricolor varieties need a little more care, though quite easy to grow. Sow thinly where they are to flower and thin the plants in the rows to about four inches apart. C. inodorum plenissimum (matricaria) is a fine thing for cutting, the pretty white flower heads being always welcome in July and August. At first sight there may not appear to be much money in these annuals for the florist, but for the man who has his own store and retails the produce of his garden and greenhouse they form a most welcome variety in the summer flowers if properly grown. Neglected they are useless.

Dahlias.

Regarding the date of planting out dahlias every grower has to a great extent to work out his own salvation. There are localities where there is little frost to be feared after the middle of May, while in others there are annually killing frosts some time between May 23 and May 30, and any gain in early planting in such locations is more than counterbalanced by the damage done. In any uncertain places if early planting is carried out it is imperative that protecting material be placed over the plants every night whether frost seems imminent or not; it is the only safe way. When this is impossible, owing to the number planted, then keep the dahlias under cover until June. When planting, place a strong stake to each plant and tie very loosely to admit of the plants sinking in the soil without being strung up. Spread lime and soot in equal proportions around the plants liberally, as

this material is distasteful to slugs, which are very voracious at this time. Four feet apart is quite close enough for the cactus, show and fancy varieties, three feet for the pompons.

English Wallflowers.

Though by no means a staple article, the English wallflowers are a very welcome addition to the cut flower stock in early spring, their fragrance and lasting qualities recommending them. Seedsmen have not made the progress with this flower that they have with some others and the varieties sometimes sold are by no means the most satisfactory. Perhaps the best of all for ordinary cutting purposes is a good strain of Blood Red, the flowers being brighter than those of any other variety. There are also white and yellow varieties, but these are not usually as highly prized as the dark colors. If early flowers are needed sow at once and give the plants the best of attention right along. The wallflower likes a firm and sound soil rather than a rich one. Sow the seed thinly in a frame where the seedlings can have full air from the first and as soon as they have made two or three leaves prick them out two inches apart to gain strength. Make the soil very firm and avoid overwatering in the early stages. The soil where they are eventually planted should be in good condition but not rich and must be thoroughly consolidated by rolling if a large plot, or treading the soil firmly with the feet. Trowel planting at least one foot apart is best and the planter should make firm the soil around them and leave a little depression around each plant to allow of watering in the earliest stages. The position chosen must be open, as these plants delight in ample sunshine and air, and, unless they get it, will be attacked by fungus troubles or blight. After a week or two they are well able to take care of themselves, only needing cultivation between the rows, and they can remain until needed for lifting and benching whenever the benches are ready for them. In localities where the wallflower is hardy the treatment is the same until winter and in such positions as described it is a very profitable crop to grow.

SYRACUSE, N. Y.—Geo. L. Brown has leased the Gaskill greenhouses on North Tod avenue and will continue the business.

BANGOR, ME.—A. J. Loder, who built a new greenhouse on Lancey street this spring, finds that he has not the space to meet the demands of the trade and contemplates building a new house, 24x140 feet, in the near future.

ANOKA, MINN.—The Anoka Greenhouse Co., recently completed a very elaborate floral design in the shape of a private car sidetracked from the main line. Carnations were the principal flower used, the whole design being about six feet in length.

ERIE, PA.—Nearly 200 couples enjoyed the hospitality of the florists' employes at a delightful dance at Assembly hall, April 28. The decorations of palms and other pot plants were unusually beautiful and elaborate and the music furnished by Rea's orchestra left nothing to be desired.

THE RETAIL TRADE

THE pretty little basket figured on this page is the work of Wm. J. Smythe, Michigan avenue and Thirty-first street, Chicago, who makes a number of these choice little trifles for his high class trade.

Gates Ajar.

SEE SUPPLEMENT WITH THIS ISSUE.

Gates ajar is a very popular design, and rightly so, for it is one of the few of what may be called imitative designs that can be made graceful and artistic. As a rule when a designer starts out to imitate something in flowers, such as a book, an anchor or something connected with the person whose funeral the piece is intended for, the thing has to be given more or less of a hard outline, and no matter how graceful and beautiful the flowers themselves may be, the design when complete cannot be called artistic.

With the gates ajar the decorator has a wider scope. The gates are the center of the piece, it is true, and must be imitated in a more or less formal manner, but the foreground, as it may be termed, of the piece may be treated in various ways to suit the fancy of the designer. A walk of solid asters or carnations, leading up to the gates, with clusters of flowers on either side to form the bases of the arch pillars is a very pretty idea. Or the base itself may be spread out and the gates be placed just above it, this being frequently done in the cheaper designs. As to the arch, there is abundant room for individuality on the part of the designer. Hard lines of carnations, violets, asters or something of this kind are not the best way of treating it. The flowers used should be of a lighter description than usual and kept well apart by the use of their own foliage or that of some other plant and allowed to stand out from what may be termed the structural part of the design. Lily of the valley is especially useful for this purpose, also Roman hyacinths when they are in season, while a spray of either or a knot of violets with a tiny bow of baby ribbon may be tied to one of the gates. Success with this kind of design is an elusive quantity. Sometimes a little touch of originality lifts the whole thing from the commonplace, while again the artist may fritter away a lot of time and valuable material and yet fail to produce a good effect.

Pretty Small Basket.

Hyacinths and Maidenhair Fern.

Orchid Bouquets.

That orchids are becoming increasingly popular in decorations of all kinds admits of no doubt; their beauty and distinctiveness from all other flowers and the soft yet beautiful gradations of coloring are among their principal charms, while their long lasting qualities add greatly to their value. Unfortunately, we think, the increasing popularity is almost wholly confined to cattleyas and the many other beautiful species and genera do not increase in anything like the same ratio. There is no getting away from the fact that the cattleyas of the labiata group and the Brazilian species of lælia are among the finest orchids from a decorative point of view but in bouquet making a greater variety is necessary than is afforded in these and it will be to the advantage of orchid growers to see that this branch is not neglected.

The oncidiums stand out as almost perfect flowers for bouquet making; the flowers are bright and telling yet very graceful and light and they last surprisingly well. The one point against them is a lack of variety in color, the great majority of the species containing a good deal of yellow. Still there is plenty of variety from the pure soft yellow of Oncidium concolor through the deeper yellows and chrome tints and the combinations of yellow with brown as in O. crispum, cinnamon red as in O. bicallosum and rose purple as in the beautiful little O. ornithrynchum. Then the deep chocolate brown in O. Lanceanum and the almost indescribable coloring of some of the macrantha group almost do away with the charge of sameness in color. The vandas again are fine for bouquet work from the bright blue V. cœrulea through the paler V. cœrulescens to the charming pink tints of V. Kimballiana, V. Amesiana and V. teres to say nothing of that finest of all vandas V. Sanderiana.

What, again, could be more beautiful than the moth orchids or phalænopsis? The dendrobiums, including D. Phalænopsis, D. formosum, D. Dearei and the scores of beautiful deciduous long bulbed species are fine. The cypripediums are among the most lasting orchids in existence. They are not perhaps as beautiful in some instances as the orchids with which we have been comparing them but the genus contains some gems. What could be finer in a bouquet than the long pendent sepals of C. caudatum and others in this class? The brightly tinted hybrids of the Sedeni section, the showy C. longifolium and C. grande the quaint little C. Pearcei and a host of others could be mentioned without even touching on the great race of true cypripediums of which C. insigne is a well known instance.

This only touches the fringe of the orchid question as it applies to variety. Only a specialist in their culture

has an idea of the marvelous variety this grand family contains but enough have been mentioned to show that there is no need to fear lack of material if only the growers would get after it and retailers would use it. While no flower has a more beautiful effect than the orchid in bouquets it takes an experienced bouquet maker to handle them to the best advantage. There is a singular poise to an orchid of any kind that is different to that of any other flower though to some extent the iris, some lilies and a few other flowers are similar. To get a good effect this natural poise of the flowers must be maintained. A carnation fits in anywhere and any way; even a rose may point up or down or look straight out from the bouquet. But there is just the right pose for a cattleya if its full beauty is to be seen and in no other way will it be nearly as telling or pretty. This point considered and crowding avoided the mechanical part of the bouquet making is easy. The selection and blending of color tints and the choice of a suitable and telling shade of ribbon are the other points necessary to successful and artistic work.

A Birthday Urn.

The fine floral urn figured in the accompanying illustration was made by A. Lange of Chicago, to the order of the Chicago Examiner, for presentation to J. Harry Selz, the well known Chicago and New York shoe man. The presentation was made to Mr. Selz on his forty-fifth birthday anniversary and the lettering under the rim of the urn reads, "45, make it 90." The body of the urn was worked out in Enchantress carnations, the handles being of violets, while the panel on the front was of violets, the name "Selz" being picked out with Narcissus poeticus. Around the base American Beauty roses and Asparagus plumosus was arranged over bronze galax by Mr. Lange's clever designer, Fred Strail, a large bunch of the same rose being placed in the urn. The urn itself was about five feet high independent of the roses and contained about 15,000 carnations. The price obtained for this fine piece was $150.

Lady Florist at Springfield, O.

"Carrie M. Howell, Florist," is the heading a very energetic lady florist of this city uses, a lady, who, to quote our excellent correspondent, W. G. Matthews, of Dayton, "has built greenhouses, works like a man, dresses like a man and pays her bills like a man." He also says, "I ship her lots of stock; she is popular, does a nice business and takes THE FLORIST." Back of this lady's entry into the florist business is a story of her marriage with a minister which did not turn out happily. Wilder, as this gentleman is called, it appears, was a cigarette fiend and had sundry other bad habits, but the worst fault in the eyes of his wife was that he only had "spiritual" love to offer her, evidently not a very satisfactory article, according to Mrs. Wilder, who has since taken her maiden name again and gone into flower raising, which she loves more than the cigarette-smoking parson. "Things are coming my way," is Carrie M. Howell's cheery report. "We have just finished a 30x50 foot addition to my place and business is good." This, we trust, will continue, and we hope the next addition will be 500 feet instead of 50.

BIRTHDAY URN BY A. LANGE, CHICAGO.
Principally Carnations, Violets and American Beauty Roses.

Notes on Dahlias.

Success in growing dahlias depends on the proper observance of little things as well as the quality of the stock. Therefore watch the young plants, give them plenty of air and sufficient room to avoid drawing. Watering is also most important; too much is worse than not enough after the plants have become established. At this time of year young plants do much better in outside frames, where they are covered only on cool nights, than in greenhouses. Frame grown plants are much hardier and are ready to plant out as soon as danger of frost is over, without danger of loss even under unfavorable conditions. Plants in the greenhouse require much more care and extra room to space them in order to avoid drawing—both items at this time of year.

As it is time in many sections for planting it may not be amiss to touch lightly on this subject. If there is plenty of room plant 2x4 feet apart, or even further; 3x4½ feet for strong varieties would be better. It is safe to plant now for bloom in July and by removing the blooms before maturity, that is while they are in the best condition for use as cut flowers, and giving thorough cultivation with a surface application of a good complete fertilizer or mulching of manure as often as the flowers and plants show the need, first-class commercial blooms will be obtained until the plants are killed down by frost. This is based on growing good commercial cut flower varieties on the single stem branching system with all side buds on each shoot removed, allowing only the terminal bud to develop. Where roots are planted do not allow more than two shoots to grow; one will give finer blooms if the season is unfavorable. Another condition is that the soil be not too rich and the early growth not too soft and long jointed.

Look out for green fly and red spider. Neither is to be dreaded if proper precautions are taken, but either will so injure the plants as to seriously impair the crop. Keep the plants short and stocky; pinch them out so they will

branch low. This is simply following nature, as the plants branch as soon as they bloom anyway and why not have them branch low. This gives longer stems with less danger from winds and storms. Thorough cultivation is another essential, no matter whether growing for flowers or roots, so start off by always keeping the surface stirred and never allow a crust to form after a rain.

Regarding the time of planting, almost every grower has a different opinion. The first blooms (not necessarily the first individual flower) are the best in the general course of events, so it is wise to plant at different times for exhibition flowers, according to the date they are wanted. For commercial cut flowers each grower must learn the needs of each variety and the proper time to plant and just how best to handle them to suit their soil, and other particular conditions and needs.

LAWRENCE K. PEACOCK.

THE ROSE.

RICHMOND is showing unusually good form in many places this season.

THERE are inquiries from the best class of retail trade for the old Bon Silene.

THE young foliage of Mme. Chatenay is more easily injured by exposure to strong sunlight than that of probably any other variety.

ROSES are more easily injured than most other plants by fumigating with hydro-cyanic acid gas according to experiments carried on by the bureau of entomology.

Notes in Season.

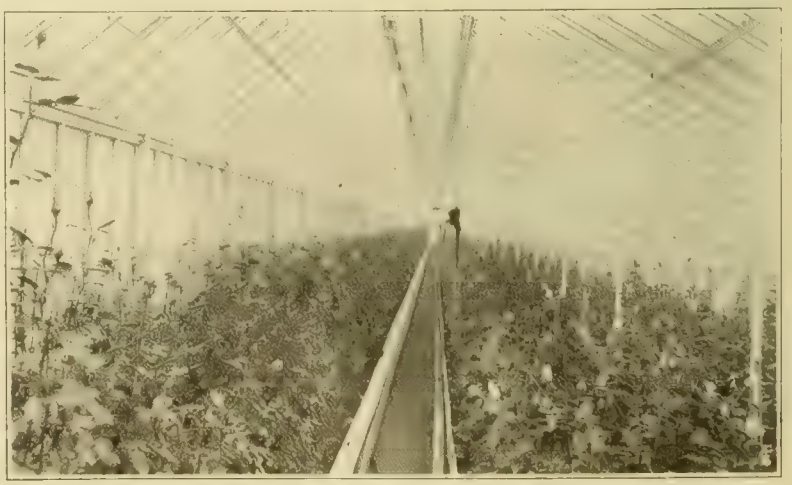
Particular pains must now be taken with both the young plants and the stock on the benches or beds, in order to have them free of spider, thrips and mildew. Ventilating at this season must be done with considerable judgment; the houses should have a crack of air left on at night in connection with the artificial heat, and we strongly advocate running the boilers as long as possible. When the temperature in the houses exceeds 64° with air on at night, and the minimum amount of heating pipes in use, we should then advise banking the fires, but not closing the ventilators in this instance; leave the sash raised about three inches and avoid the condensation that will surely collect on the foliage with the ventilators closed. As a starter for black spot, mildew, and a loss of foliage there is probably nothing to beat the condensation referred to above.

Be liberal with the sulphur when applying it to the pipes; syringe forcibly and have a care when watering not to overdo it, as in some instances the bottom heat may have been cut off and the soil may be drying out more slowly than when the regular firing was in progress. Remember also it is just as essential that the plants that are to run along until the middle of June, or the beginning of July, should be kept tied and cared for generally, as it has been done all winter, not only for the sake of the quality of the blooms (which naturally get smaller as the warm weather approaches) but in order to have fine stock to carry over another season, which is often necessary. This can and should be done when the plants are healthy, for plants properly grown should last two seasons at least before throwing out, and in many cases prove to be more profitable the second year. As for the third year, in a majority of cases coming under the writer's observation, and from practical experience, we do not favor growing forcing roses three years in succession even in solid beds. Of course there may be instances where the same plants have been carried eight or nine years in succession and made to pay fairly well or at least with a fair profit, but these cases are exceptional. After the second season the plants are much slower producing flowers during the winter months just at the time we need them most, and, although at this season the plants in question usually make quite a spurt, I think this spurt is not equal to the extra amount of coal burned while the plants were very poor producers.

The plants from now on will require an extra amount of feeding, which can be done by using liquid cow manure at least once a week, and, if necessary, a light mulch now and then to protect the roots from the sun's rays and to keep the soil from drying out too rapidly when the ventilators are opened to their fullest extent, which they soon will have to be. The pot plants or young rose stock should be shifted after each growth made, and be given plenty of room on a good sunny bench, spotting out the dry plants with a watering pot before giving them a general watering. Syringe now with considerable force; in order to do this with the grafted stock in pots this should be staked and the raffia removed before the ties cut through the bark and ruin the plants, otherwise many plants will be broken if syringed with the proper force. Some soils have a tendency to bake in the pots; often this is due to having too little manure in the potting soil, and if this should occur it will be a difficult matter to keep the plants wet enough, as the soil leaves the sides of the pot. By going over the plants and stirring the surface of the soil lightly with a label or a flat stick this can be remedied and the work can be done quite rapidly. Beware of weeds in the pots; they take more nourishment out of the soil than the plants, once they get a start; and keep the leaves picked off the beds and pots, as the decaying foliage lying around breeds millions of thrips in a very short while in warm weather.

Owing to an extremely cold spring the indoor stock has been kept running along in better condition perhaps than is the case where we have a hot spell during April. The cool weather, requiring the regular firing at night, should have been taken advantage of to have had the continuous fumes of sulphur around, and although the weather has retarded the outside work to some extent it has been favorable in the eastern states to get the stocks hardened off to stand the change caused by cutting off the heat. As stated in a previous article, great care must be exercised in manipulating the ventilators and every precaution taken to keep the plants free from insects and mildew. The pot plants should not be crowded or allowed to become potbound, and very often it may be advisable to go over the young stock at midday with a second watering. Keep them free of draughts and run them a little warmer if need be rather than have the wind blow them about. Keep the walks damp on such days to preserve and to protect the foliage.

It is rather early to offer suggestions for planting, but everything should be planned and preparations made so that when the time comes the planting can be put through without any drawbacks. If there are benches to be built or repaired, have the lumber in readiness. If new houses are being erected, be sure that everything is in the best possible condition before filling the houses even if it takes a week or so longer to get the interior shipshape. Very often the benches are slapped up hurriedly in order to get the plants in and started; one had better give the plants another shift and keep them growing on in pots rather than slight the construction in any way. Keep the compost heap turned as often as possible and have no water standing around the soil pile. About this time one should be using a preventive for thrips. I speak of this again, as the damage these pests do reaches into the dollars very often for weeks at a time, the flower being unsalable where the thrips have gained a foothold. A good preventive is to vaporize nicotine or any of the liquid



HOUSE OF MY MARYLAND AT A. N. PIERSON, INC., CROMWELL, CONN.

fumigating extracts. This can be accomplished by spraying on the steam pipes or by using small alcohol lamps to vaporize the liquid placed in shallow pans and suspended over the lamps. Full directions for using the different liquids will be found printed on the cans or bottles, and as the nicotine is most effective as a vapor for thrips it should be used in this way only. In my next article I will have some suggestions to make regarding bench construction, planting, etc. E.

My Maryland.

As it is now nearing the time for the planting of rose stock those who will grow My Maryland next year may not object to a little talk concerning its likes and dislikes. We have heard all about the beauty and great value of My Maryland and there seems to be no doubt now that we have a grand rose in this sort. For the grower who will handle it properly there must be satisfaction in store. On account of what has been said previous to this regarding temperature it must not be understood that 60° at night means failure when handling this rose, but experience this year would indicate that a trifle higher temperature, say 62° to 64°, would produce better results. The results this year would show that My Maryland is positively a paying sort, every month in the year, and every day now, as the season advances, it is shown what a heavy producer we have in this variety.

Those who have stock well advanced now will profit by getting it benched as soon as possible. Plant in rich soil, continue to feed liberally and don't be sparing with the water; in short, push it right along in these respects and the results will be satisfactory. Red spider is its worst enemy. Don't let this pest get a start and if a spell of cloudy weather holds on too long, syringe, even if the sky is dull. There is little to be feared from mildew or black spot, consequently red spider may be avoided if care is taken. In pinching it is best to cut back quite hard inducing the new wood to come strong and keeping the plants stocky and heavy. The plants should not be allowed to bloom until they have become of good size, but in this respect My Maryland is no different than any of the other forcing varieties. The blooms should be allowed to develop well before being cut, as it is surprising how they swell by being allowed to stay on the plants until the petals are starting to fold back. Even after reaching that stage they will still hold well and stand shipping for any reasonable distance.

An important point in the culture of this rose is in the propagation, but now that this is understood, further trouble may be avoided. Take the cuttings early and give plenty of bottom heat, but hold the temperature in the propagating house reasonably low; about 50° would be right. It is a slow variety to root, but makes up for lost time when once the cuttings are potted. There is no difficult problem to solve, and we may reasonably expect to find it a standard sort on the market for some time. It has many friends now, but they will undoubtedly increase as the rose is more widely grown. When we stop to think of the many points about My Maryland to commend it, the more convincing it is that the variety is one of real worth. Consider what these points are and then judge what they mean. It has good stems at all seasons, none weak and very few short ones are produced. It has a pleasing fragrance and color, never produces deformed buds, while as a keeper and shipper there is none to beat it. Last, but by no means the least important, is the fact that there is great promise of it being the best pink rose we have for hot weather. This point will, in all probability, be demonstrated this summer. R.

ROSE MY MARYLAND AS GROWN S. J. REUTER & SON, WESTERLY, R. I.

Disbudding Young Roses.

ED. AMERICAN FLORIST:—

Two excellent rose growers of my acquaintance have different methods of disbudding their young rose stock, that is removing the buds that form in the points of the shoots before the plants are strong enough to be allowed to flower. One removes them on sight, going over the plants weekly and pinching them out with the fingers, removing also the first leaf or two in the young state. The other allows the buds to come to the size of beans and then uses a knife, also removing the first two or three leaves. Which is correct? Both growers get good flowers. ROSA.

[As both growers mentioned by "Rosa" get good results this would appear to be a small matter. However, we would like to know what experienced growers have to say on the subject which, at any rate, is timely and interesting.—ED.]

ORCHID NOTES.

ORCHIDS with fine foliage are not common but some of the native goodyeras are well worth growing on this account alone while the anæctochili are among the most beautiful foliage plants in existence but difficult to grow.

THE deciduous dendrobiums such as the well known D. crassinode, W. Wardianum and D. Bensoniæ like smaller pots or baskets than the evergreen, bunch flowered kinds of which D. densiflorum and D. thyrsiflorum are well known examples.

Cattleya Skinneri.

The free flowering nature of Cattleya Skinneri is well shown in the accompanying illustration from a photograph taken of a plant that flowered in Dr. Schiffman's collection at St. Paul, Minn., some years ago. The plant illustrated was carrying 60 flowers on eight growths and was a healthy, vigorous specimen. C. Skinneri differs from the labiata section in producing more flowers on a spike, but these are smaller. The flowers are a pretty rose purple with a deeper colored lip, the coloring being on the outside of this segment, not in the throat, as it usually occurs. It likes less root room than the stronger growing species and rather less heat, but otherwise its treatment does not vary much from that advised for the labiata kinds. The flowers are a good deal like those of a dendrobium and are often deliciously scented.

Colombian Orchids.

Consul-General Jay White, of Bogota, reports as follows concerning the orchids of Colombia: "Odontoglossum crispum, one of the most notable of all orchids, is to be found in Colombia on the temperate-climate mountain ridges, in the district between Facatativa and Velez. For many years past thousands of these plants have been sent out of the country, chiefly to London. This orchid is also found on the mountain slopes above the town of Fusagasuga, but the plants gathered in that district are not purchased by European collectors, being considered inferior to those from the other Colombian districts, such as Pacho, which is the headquarters of the trade.

"Contracts are made with natives, who spend weeks at a time in the woods. When a native finds a tree with enough orchids to warrant his work he fells and then strips it of all the plants it bears. This system has naturally caused the wholesale destruction of all orchid-bearing trees in the forests near settlements. The collection continues all the year round. Attempts have been made by legislation to stop this destruction.

VARIETIES COLLECTED.

"The rare varieties of Odontoglossum crispum which have obtained such fabulous prices in London and elsewhere all came from the Pacho district. In many parts of Colombia, various kinds of masdevallias are plentifully found, but of late years little interest has been shown in this genus and the export has fallen accordingly.

"Next in importance to Odontoglossum crispum comes the trade in the many kinds of cattleyas. The best Cattleya Trianæ is collected in the Natogaima district of Tolima. C. Bogotensis is found near the headwaters of the Saldana river and in the forests about Villeta, near Bogota; large exports of these plants are periodically made. C. Schroederæ is found in the mountains near the headwaters of the Meta; also near Sogamoso; C. Mendelii near Santander; C. gigas in Antioquia and Santander; and C. Mossiæ and C. labiata are obtained in Venezuela. C. aurea is chiefly to be found about Yaramul, in Antioquia. This splendid orchid is almost unknown in other parts of Colombia.

"Odontoglossum vexillarium (Miltonia vexillaria) found in Antioquia, is generally taken personally by the shipper when he returns to Europe. In former years many of these cattleyas were sent to Bogota for shipment by the ordinary route down the Magdalena river, but now many are sent down the Orinoco to Trinidad, whence reshipment to London can be effected with little loss of time.

PACKING AND PRICES.

"Orchids should be free from all moisture before being packed. Odontoglossums should be well cleaned, their leaves and roots cut off, and only young shoots left on the plants. All of them require to be packed with dried bracken in well-ventilated crates. No delay should occur on the journey. The crates should be kept in cool places on board ship and well away from boilers and furnaces. To insure their arrival at destination in perfect condition, the leaves of all cattleyas should be carefully packed with dried bracken. As much as $300 has been paid by shippers in Colombia for a single plant of a certain variety of Odontoglossum crispum.

"Of late years the exportation of orchids to the United States has been on the increase, though London still continues to be the headquarters of the trade. Orchids are exported in quantities to the following countries in the order named: United States, Germany, France and England, the values not being given in the official returns." [Photographs of Colombian orchids and natives who collect them, also the addresses of orchid exporters, are on file for public use at the Bureau of Manufactures.]

Abnormal Flower of Cattleya Trianae.

A most interesting abnormal flower of Cattleya Trianæ has come to our notice in the orchid houses of the Missouri Botanical Garden. An importation was received from Colombia in the spring of 1908, which yielded an abundance of flower, the majority being the variety pallida (Lindenia, Vol. 6, 1890). These so called freak flowers are not at all common. There is an unusual amount of interest attached to the one illustrated owing to the entire absence of the labellum. The dorsal sepal is normal, but the lateral sepals are abnormal, being united entirely to the apex, where there is a slight division plainly showing the emarginate tips of the two sepals. The first impression is, that they are the labellum, but with a closer examination this is found to be erroneous. The two petals are perfectly normal, measuring six inches in length and two and a half inches in width. The labellum (lip) is entirely absent; there is not the least trace even of a rudimentary one. The column and the anther case are normal, but the rudimentary pollen masses are apparently the filaments. G. H. PRING.

[The question of deviation from the ordinary conformation of orchid flowers was very interestingly written up by the late Dr. Masters in his chapter on "Teratology of Orchids" in Veitch's well known "Manual of Orchidaceous Plants," Vol. 1, pages 37-49.—ED.]

CATTLEYA SKINNERI.

KOKOMO, IND.—W. W. Coles left last week for Oden, Mich., where he is building a summer cottage. His son, L. A. Coles, has acquired six acres of land on East Jefferson street and is starting in the greenhouse business, building one house as a beginner, 35x300 feet, Lord & Burnham wood and iron construction. The house is now ready for glazing and an 80 h. p. boiler has been installed. Aditional houses will be built next season and American Beauty roses will be grown exclusively.

FLORISTS' FERNS.

CISSUS DISCOLOR is occasionally planted with ferns in baskets and has a very pretty effect.

ASPLENIUM ADIANTUM NIGRUM is a beautiful little plant for growing in a cool house and fine for fern dishes.

THERE are several varieties of Pteris tremula, some of them much fuller and more handsome than others, and it pays to grow the best forms.

NEPHROLEPIS WITTBOLDI and N. Washingtoniensis may be seen growing side by side in the new fernery at Garfield park, Chicago, giving a fine opportunity of comparing these two handsome varieties. Both are doing remarkably well.

Care of Young Stock.

The present is a busy time for the fern grower, the moving of much of the stock in various sizes at Easter making room on the benches that has to be filled with growing stock. This usually has to be potted out of flats or small pots and in any case has to be cleaned over and put in shape upon giving it a new stand. It is folly to put ferns back for growth that are potbound or are carrying bad fronds. Put them in proper cultural shape and they will grow into money, but do not litter up the benches with any other class of stock, for it never pays. It is easy to tell directly one enters a greenhouse establishment whether this fact is kept in mind or not. The grower who is alive to his opportunities never keeps his benches empty, but the plants are kept constantly moving; they are in batches according to size and are brought on one after the other. The careless grower, on the other hand, never knows where he is at. Good, bad and indifferent stock are all mixed up together and it is impossible to tell how many good plants may be picked out of a bench. And those who are slipshod in this part of their work are likely to be so in all others.

It is a pleasure to go among ferns where every size looks at its best, where ferns from the seedling stage up to the finished specimens show the same thriving green appearance. And it is just as easy to have them this way as the other—easier, in fact. Just now the seedling part of the business is the busy end. In large establishments there are hundreds of pans of the green, moss-like prothallus that contain in embryo millions of plants. These need the greatest care. Moisture, in the soil and in the atmosphere, they must have, yet a drip from the bench under which they are staged may lead to wholesale decay, the prothallus damping off in patches that, if not arrested, spread over the entire surface of the pans in which the troubles begin. Overwatering the soil in which the spores are growing is also a cause of failure and the effect of using unsterilized soil is often only too apparent in little patches of dark fungus with a light rim appearing and spreading outward until the whole pan or flat is killed.

Either owing to greater care in saving the spores than formerly or more skilful management afterwards, we can reasonably expect to get a fair proportion of the species sown. It used to be quite common to sow spores of adiantum and find when the character fronds appeared that we had a fine batch of Pteris tremula or one of the gymnogrammas, not a very satisfactory state of affairs, and one that has hindered the raising of ferns from spores considerably. Just now the young ferns are showing the first fronds in many cases and this is the stage at which they should be carefully lifted out in very small patches and transferred to other pans or flats. These may be gently watered and stood on a shaded bench with a sheet of glass over each to maintain a moist atmosphere around the seedlings. The little ferns should not be handled at this stage, but separated by the use of two pointed sticks or toothpicks and placed about an inch apart each way. They soon get hold and when they begin to grow again after the disturbance they may be considered safe and the glasses removed. The treatment of the seedlings from this time on consists simply of shifting them as they require more pot room and keeping them in a genial temperature by day and about 58° at night.

Plants of the new Nephrolepis superbissimma planted out last fall for stock purposes made little progress during the winter, but many fine runners appeared early in April and these are making great progress now. These will also soon be fit for potting off singly and growing on. The gymnogrammas, as hinted above, are very easily raised from seed, but some growers do not have much success with them afterwards. One frequent cause of failure is too much spraying or overhead watering. They like moisture in the air and will not flourish in a dry atmosphere, but the fronds cannot stand the water. It ruins their texture and swills off the gold or silver dust-like particles from the back which are their chief attraction. Cheilanthes elegans is another beautiful little fern needing similar treatment. Baskets of Boston ferns may now be made up for fall and winter use. It is not necessary to use the finest looking plants for which there is a market now. Use the rougher plants with good strong crowns, as they have plenty of time to grow into shapely stock. A few small plants of English ivy placed in the baskets will droop around them with good effect, and such plants sell very readily at good prices.

COMMERCIAL.

ABNORMAL FLOWER OF CATTLEYA TRIANÆ.

WITH THE GROWERS

Hoerber Bros., Desplaines, Ill.

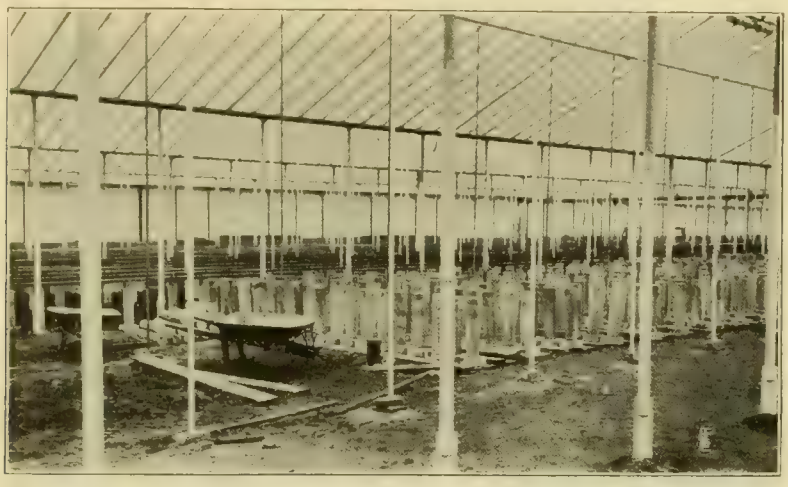
The trade generally that is interested in the Chicago cut flower market has taken much interest in the new establishment of Hoerber Bros. at Desplaines, Ill., now in course of construction, and the fact that the recent storm practically leveled the five houses so nearly completed elicited much sympathetic comment on the part of the greenhouse fraternity.

When the present range is complete, as it is hoped it will be in time for planting for the coming season, there will be 10 houses, each 27½x297½ feet. The building material and ventilators were supplied by the Foley Mfg. Co., of Chicago, and the erection work was in charge of a local firm of contractors. When the storm of April 29 struck, one house was about ready for the glaziers, but the frame was so blown out of plumb and so twisted that it will have to be taken down and rebuilt. The frame work of four other houses was also in place but not yet sufficiently braced and went completely over. Gutter posts and gutters were in place for two other houses, and work has not yet been begun on the last three. As there are some 35 acres of ground about the place, there is plenty of room for later additions. These, it is designed, will be 600-foot houses.

The foundations and cement floor of the boiler house are in. This is a building 50x140 feet, large enough to

take care of the future buildings now contemplated. A 100-foot smokestack of brick will shortly be begun. Two 150-h. p. tubular boilers will be installed, and the Detroit return trap will be used in conjunction.

Frank A. Benthey is the superintendent in charge of the place and will have direct supervision of the rose section consisting of seven houses, to be planted to Bride, Bridesmaid, Richmond, Killarney and White Killarney.



ESTABLISHMENT OF POEHLMANN BROS. CO., MORTON GROVE, ILL.
Interior View of New Addition to Plant B.

Three of the houses will be planted to carnations under Foreman Reinhardt. Most of the carnation plants have already been received, supplied by the E. G. Hill Co., of Richmond, Ind. The plants not received before the big storm late in April were held back, because of weather conditions at Desplaines. A few plants were then already planted in the field. The carnations to be grown will include 3,000 Victory, 3,000 Beacon, 1,500 Enchantress, 3,000 White Enchantress, 3,000 White Perfection, 3,000 Winsor, 750 Afterglow and 750 Winona. It is to be hoped that the new firm meets with no further untoward accidents but only with prosperity and entire success.

The Poehlmann Bros. Co.'s New Range.

We show herewith two views of the new addition to Plant B of the Poehlmann Bros. Co. establishment at Morton Grove, Ill., now in course of erection. The new block of houses includes 13 large structures, each 27x350 feet. Several of the houses are already fully glazed and work is being rushed on the remainder.

Inside the new houses that have already been glazed is a busy scene, scores of men being employed getting up the benches. Some of these are to be of the Wittbold cement construction, and even the wooden benches will be supported by cement posts. Our interior view shows these posts either already placed in position or ready to be so placed. From the top of the posts that are to carry wooden benches protrudes a spike partly imbedded in the cement, so that the stringers for these benches can be quickly attached.

THIS is the season when rash, short-sighted people meet trouble more than half way by sowing grass seed that later on will require the use of the lawnmower.—Greensburg Argus.

Flowering of Seedling Peonies.

Seedlings of varieties of Pæonia albiflora require four to six years to bloom. The seed should be planted as soon as ripe in rich, ripe in rich, mellow soil; if protected mellow soil; if protected by frames, so much the better. They are best left without disturbance until blooming, but if planted too thick, will have to be transplanted. Very double flowers, says Robt. Tracey Jackson, in a paper read by him before the Boston Gardeners' and Florists' Club, rarely set seed, yet an occasional capsule will develop on an otherwise sterile plant. Harrison says that: "Seedlings will often bloom single for years and then turn double." I have never seen such a case. Doubtless seedlings may improve in size and quality with age, but as far as my experience has gone the first bloom, if strong, is a very close indication of what may be expected as the permanent character of a seedling.

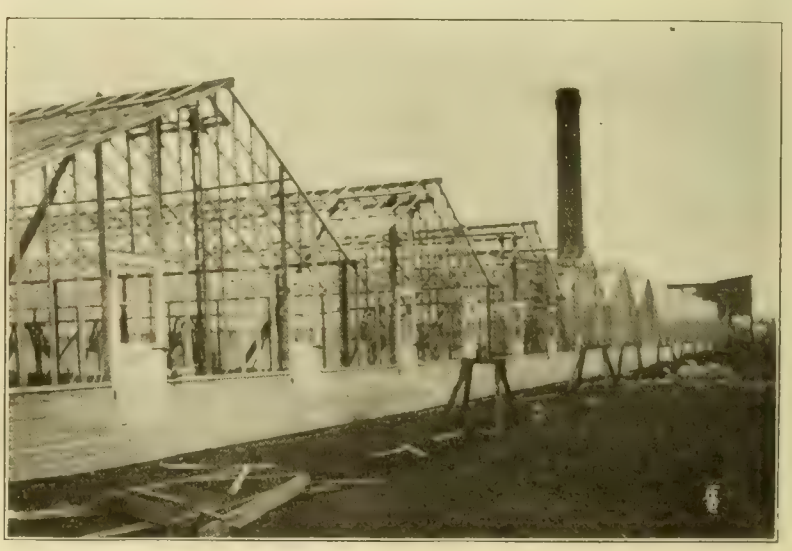
It would be highly desirable for peony dealers to insert in their catalogues, after the names of varieties, the name of the originator. It is only fair credit, and adds much to the interest in these and other plants to know something of their history, who raised them and when. This is done to some extent, but rarely systematically, as it should be. W. A. Peterson, of Chicago, and C. W. Ward, of the Cottage Gardens, Long Island, N. Y., in their catalogues note the originators of peonies very fully; the Lemoines, of Nancy, France, do the same, thought not as fully. On the other hand, the Kelways, of Langport, England, list their own seedlings, but ignore the names of other growers.

Nitrate Combine Broken.

Consul Rea Hanna, of Iquique, advises that at a meeting held on March 29, 1909, it was definitely decided to discontinue the combination among the Chilean producers of nitrate of soda, for the control of the production and exportation of that article. The consul writes: "Forty-one producers, representing 77 'oficinas' (nitrate works), accepted quotas of production aggregating 40,480,000 Spanish quintals of 101.61 pounds each, and 46 producers, representing 77 oficinas, refused to accept the quotas assigned to them. Those refusing to accept demanded quotas aggregating 10,800,000 quintals more than was proposed to them.

"As a consequence the nitrate combination ceased to exist on March 31, 1909. In the future, or until a new combination be formed, there will be unlimited production and exportation by the several oficinas. This condition is desired by many of the producers who possess rich deposits and whose cost of production is low, and the general opinion is that the nitrate market will suffer at least only a temporary fluctuation as a result. The 'Associacion Salitreara de Propaganda,' however, still continues as an advertising medium, and as a statistical department for the industry."

MILWAUKEE, WIS.—School children of the state voted May 7 to determine which should be their favorite flower. There were four entries—the violet, wild rose, water lily and trailing arbutus. The violet left the others at the post, as it were. The wild rose apparently came in second, the water lily third and the arbutus trailed way behind.



ESTABLISHMENT OF POEHLMANN BROS. CO., MORTON GROVE, ILL.
Exterior View of New Addition to Plant B.

To Be Done Now.

IN THE GREENHOUSES.

Push on with the propagating of any chrysanthemums of which stock is short.

Plant up a few roses of various kinds when throwing out the benches, as they may come in useful for making good on held-over benches of the same variety later.

Remove any spare shoots from the Memorial day hydrangeas and root them. Four or five of these in a pot make nice stock for next season.

Allow newly imported cattleyas to make some root before giving much peat and moss, and water with care.

Continue to pot on young decorative stock as there is room for it, and throw out any plants that are over and not needed for propagating.

Do not allow coleuses to flower. Remove the flower buds on sight, as they are a hindrance to growth.

Great care is necessary in watering plants. The bright bursts of sunshine soon find a dry specimen and if in small pots they must be looked over every forenoon, after the night moisture has dried off.

Begin to feed the pelargoniums as soon as the flowering pots are well filled with roots and look out for green fly.

Keep the young carnations well pinched back until the requisite number of shoots are produced.

Zinnias and French marigolds are among the most tender annuals and should be kept under cover until all danger of frost is past.

OUTDOORS.

Thin out eschscholtzias and hardy annuals early to avoid their running up to flower.

Where the soil is poor a good top-dressing of manure should be laid on the rose beds after the pruning is finished.

Red dogwood and forsythia planted close together are very beautiful at this time. There is a hint here for the planter.

Where there are vacant places between the roses plant out a few asters or stocks to fill up; they will be showy after the best of the rose bloom is over.

Keep the hoe going between sweet peas and place supports to the vines before the plants have a chance to fall over.

Remove the protective material by degrees from rhubarb that has been forced in the open to give the plants a chance to harden gradually.

Nitrate of soda, used either in a liquid form or a little sprinkled around the plants, is the best stimulant for early cabbage, cauliflower and other brassicas.

The burnt refuse from a garden fire is excellent material for sprinkling over seed beds when preparing them or sowing in the drills. Where concentrated manures have to be sown it is a good plan to mix them with several times their bulk of this to facilitate their even distribution.

Sow a few radishes with parsley and other slow germinating vegetable seeds to mark the rows for early cleaning.

Plant out asters, phloxes and other semi-hardy annuals from flats or frames as soon as the soil can be got into good condition.

Rosa rugosa is one of the hardiest of roses and perhaps the finest of all the garden varieties for planting for hedges and in windswept positions.

AN EVERBLOOMING SALVIA.—F. W. Fletcher, of Auburndale, Mass., claims to have an everblooming salvia of the habit of Splendens and nearly as tall. He thinks it originated as a seedling of this variety.

Twenty Years Ago.

MAY 1889.

Eucharis Amazonica was one of the choicest of white flowers used in bouquets and designs.

The thanatophore, an apparatus for fumigating, of French design, was being exploited.

Growers were budding Marechal Niel rose on General Jacqueminot and other hybrids.

Many fears were expressed that the tulip had outlived its usefulness owing to a season or two of poor demand for the forced flowers.

The beautiful Golden Spur narcissus was becoming very popular.

The Late John A. Shellem.

See Obituary, Page 752, in Last Issue.

Considerable discussion was going on as to the derivation of the word "moonvine" as applied to the ipomæas.

The great German authority on orchids, Professor Reichenbach, died May 6 at the age of 65. "Reichenbachia," the monumental work devoted to orchids, published by Sander & Son, was named in compliment to him. Much comment was made at the time about the professor willing that his herbarium should be left unopened for a long period after his death.

A cut of Adiantum gracillimum used to illustrate an article on and given the title of the "Cut Leaved Sumach," showed the methods used by some of the horticultural periodicals.

OBITUARY.

Alvin C. Schroeter.

Alvin C. Schroeter, a well known and poular florist of Bayonne, N. J., died at his home in that city May 2. He was stricken with paralysis on April 30, and a recurring stroke ended his life as above stated. Mr. Schroeter was born in Essen, Germany, 69 years ago and learned the florist business in his native land.

He came to this country when a young man and worked for several years as a private gardener in Jersey City and Bayonne. He had been a resident of Bayonne for about 40 years and for 35 years had been in business for himself. He had about 10,000 square feet of glass and had a good local trade, growing general stock. He had a wide acquaintance among florists and was popular with members of the craft as with neighbors and patrons of his greenhouses. He is survived by two sons.

The Florists' Hail Association.

ED. AMERICAN FLORIST:—

The Florists' Hail Association is doing its work so quietly that many do not know what a good work it is doing. I recently had word from our genial secretary, John G. Esler: "We are hit $10,000 worth in Omaha and Council Bluffs. Several are frozen out, besides losing all their glass. Probably one of the most destructive storms on record. Hail insurance a Godsend." I decided to send you a list of the losses paid in the last few months. A word to the wise is sufficient. Write to John G. Esler for blank application for membership, and insure against loss by hail in the Florists' Hail Association of America, which is now insuring over 30,000,000 square feet of glass.

DATE OF LOSS.	NAME.	DATE PAID.	AMOUNT.
Nov. 23, 1908	Julius Steinhauser, Pittsburg, Kas.	Dec. 23, 1908	$ 60.08
Nov. 24, 1908	W. P. Neeley, Siloam Springs, Kas.	Jan. 20, 1909	22.05
Apr. 6, 1909	A. Jablonsky, Central, Mo.	Apr. 17, 1909	129.10
Apr. 6, 1909	Dr. L. W. Jacobs, Osawattamie, Kas.	Apr. 17, 1909	22.26
Apr. 6, 1909	Henry Gaethje, Rock Island, Ill.	Apr. 19, 1909	54.54
Apr. 6, 1909	Fred Bruckman, Rock Island, Ill.	Apr. 19, 1909	30.14
Apr. 6, 1909	Bills Floral Co., Davenport, Iowa	Apr. 22, 1909	235.20
Apr. 6, 1909	St. Peter's German Evangelical Congregation, St. Louis, Mo.	Apr. 22, 1909	41.80
Apr. 6, 1909	Ernst Hoescht, Clayton, Mo.	Apr. 24, 1909	14.42
Apr. 5, 1909	Park Commissioners, Davenport, Ia.	Apr. 26, 1909	64.75
Apr. 5, 1909	J. W. Davis, Davenport, Iowa	Apr. 26, 1909	408.90
Apr. 5, 1909	Forber & Bird, Davenport, Iowa	Apr. 27, 1909	23.95
Apr. 5, 1909	Wm. Bruckman, Rock Island, Ill.	Apr. 27, 1909	35.22
Apr. 21, 1909	Geo. Corbett, College Hill, Ohio	May 1, 1909	167.77
Apr. 21, 1909	McEvoy Bros., Mt. Healthy, Ohio	May 1, 1909	24.49
Apr. 21, 1909	Asher M. Coe, North Olmstead, Pa.	May 1, 1909	11.22
Apr. 6, 1909	Adolph Brix, St. Louis, Mo.	May 1, 1909	121.02
Apr. 6, 1909	John Lodder & Sons, Hamilton, Ohio.	May 1, 1909	51.63
Apr. 21, 1909	Joseph Linfoot, College Hill, Ohio.	May 1, 1909	173.95
Apr. 5, 1909	L. Stapp, Rock Island, Ill.	May 1, 1909	36.10
Apr. 21, 1909	Max Rudolph, College Hill, Ohio.	May 5, 1909	129.71
Apr. 21, 1909	J. T. Conger, Hartwell, Ohio	May 5, 1909	212.65
Apr. 1, 1909	J. A. Hill, Steubenville, Ohio	May 8, 1909	22.10
Apr. 5, 1909	Ewoldt Bros., Davenport, Iowa	May 8, 1909	36.40
Apr. 21, 1909	D. Rasp, Lockland, Ohio	May 8, 1909	102.13
Apr. 24, 1909	Herman Bros. Co., Council Bluffs, Ia.	May 8, 1909	196.77
Apr. 21, 1909	Henry Corbett, College Hill, Ohio.	May 8, 1909	267.40
Apr. 28, 1909	Alfred Donaghue, Omaha, Neb.	May 8, 1909	1,882.37
			$4,578.12

JOSEPH HEACOCK Treas.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50. Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time.

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements.

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York.

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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In fact, there's nothing that keeps its youth
So far as I know, but a tree and truth.
—Holmes.

National Council of Horticulture.

"The Cockscomb," "Window Gardening," "The Syringa or Mock Orange Bush," "Phlox," "Roses for the Home Garden" and "Peonies" are the titles of the articles comprised in the seventh and eighth installments of the press service of the National Council of Horticulture. Everyone connected with the trade in any of its branches should call the attention of local editors to the timely and useful nature of these articles which may be obtained free of cost by applying to James H. Burdett, 1720 West 104th place, Chicago.

MAY 6 was the anniversary of the death of two great men in the horticultural world. Humboldt, who died in 1859, and Reichenbach, whose death occurred in 1889.

ELSEWHERE in this issue we give a list of the recent losses paid by the Florists' Hail Association. This statement shows $4,578.12 paid on losses incurred since November 23, 1908, and all but $82.13 of this amount, or $4,495.99, was paid on losses incurred during the past April.

TWO local florists are advertising in the Calumet Weekly Index of May 8, a paper published at West Pullman, Chicago, while it denounces the use of flowers at funerals in the flimsy argument that the money used for this purpose should be spent for the welfare of the living.

LACK of perfume is a great drawback to some of the newer and finer varieties of sweet peas. We say "some" advisedly, as there are many of the new ones as delicately perfumed as the old garden varieties, grown before the sweet pea was so much in the limelight. Unfortunately, however, the reverse is usually the case.

STATE vice-presidents of the Society of American Florists should start now to stir up interest in their states for the coming twenty-fifth anniversary meeting of the society at Cincinnati. Special through cars can be arranged and nearly every state from Maine to California should send at least a carload delegation. California certainly should do it, and so should Texas and other southern states, as well as Washington, Oregon and British Columbia.

Society of American Florists.

NEW NATIONAL SHOW COMMITTEE.

President Valentine has appointed the following committee to take up and formulate plans for holding another National Flower Show:

F. R. Pierson, Tarrytown, N. Y., chairman.
F. H. Traendly, New York.
J. K. M. L. Farquhar, Boston.
W. J. Stewart, Boston.
Edwin Lonsdale, Philadelphia.
Robert Craig, Philadelphia.

The committee to have power to add to its membership at discretion. It is the intention that this committee shall have entire charge of formulating the preliminary arrangements for a show and that it will be prepared to report at the next convention, suggesting a time to hold the show, the city in which it shall be held, and to perfect and present a complete organization to carry forward the project to completion.

W. N. RUDD, Sec.

May 7, 1909.

Personal.

Otto Will and wife of Minneapolis, Minn., have completed their honeymoon tour of the world. The much traveled couple called at this office on their way home, by way of Kansas City, Mrs. Will's former home. Otto says it is a long way round and that the "tall towers" of little old New York looked good to him from the deck of the returning steamer.

W. W. Coles of Kokomo, Ind., and Oden, Mich., is building a summer cottage at the latter place. Members of the Sucking Pig Club will note the summer location which is somewhere between Petoskey and Mackinaw City.

Prof. John Craig, of the Horticultural Department of Cornell University, Ithaca, N. Y., is a sincere believer in advertising, going so far as to loan his portrait to the correspondence school cause.

Chrysanthemum Society of America.

President Elmer D. Smith has appointed Chas. H. Totty, Madison, N. J., Edwin Jenkins, Lenox, Mass., and I. W. Powell, Millbrook, N. Y., to serve as the executive committee for the ensuing year. The Massachusetts Horticultural Society and the Lenox (Mass.) Horticultural Society have affiliated with the Chrysanthemum Society of America for the year 1909 and C. S. A. trophies will be offered for chrysanthemums at the fall shows of these societies. As secretary of this society I heartily endorse all that President Smith has written regarding the wishes of the officers of the society to increase its membership. We need every chrysanthemum enthusiast and shall be pleased with the support of everyone who grows a chrysanthemum.

C. W. JOHNSON, Sec'y.

Information Versus Criticism.

ED. AMERICAN FLORIST:—

In your issue of May 1 "Raffia Strings" undertakes to tell us "the way the wind blows." This is the first time that I have ever been accused of nature faking. Up to the present time I always had the impression that nature faking was done with the pen and not in greenhouse heating. I am asked to tell how I heat my greenhouses and use the colder air as a blanket to protect the plants. Perhaps the best that I can say in answer to critics of this kind is that I do not know how, but simply do it. "Raffia Strings" seems to know how it is done, we will let him tell us. If his long experience has taught him why this statement is not true and why large high greenhouses require less heat than the smaller ones, I would like to have him tell.

I have labored with the heating problem for a good many years, beginning 10 or 15 years before E. M. Wood of Natick, Mass., built his iron houses. I had the good fortune to be in Mr. Wood's employ before and during the time he built the iron houses referred to, and many valuable lessons I learned there. No man better appreciates the advancement made by Messrs. Wood and Montgomery in our business, both structural and cultural, than myself. I do not mind being classed as one of the youngsters, but would like our patriarchs to give us some information. We invite criticism, even ridicule is accepted, although not always enjoyed, provided with it comes a clearer understanding of the subject under discussion, but ridicule and criticism are of little benefit for their own sake. I hope the patriarch can stop stroking his whiskers and come out from behind his raffia strings long enough to answer this question, "How and why the large greenhouse requires less heat than the small one and why the bottom part of the greenhouse is warmer than the top?" The man who can set us right is the man we are looking for.

W. H. ELLIOTT.

Brighton, Mass.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—As manager of greenhouse private estate, institution or nursery by a capable, reliable industrious and sober florist.
Box 351, Fredericktown, Mo.

Situation Wanted—Young woman, 10 years' experience general work in flower store, desires position. Address F. R.,
care American Florist, 1133 Broadway, N. Y.

Situation Wanted—As foreman and grower of high grade roses carnations and general stock by a married man; highest recommendations as to ability, etc. Key 862, care American Florist.

Situation Wanted—By young man, single, 16 years' experience as all-around florist and gardener in Scandinavia, England, Germany and this country; am five years in charge of present position; please state wages and particulars.
Key 851, care American Florist.

Help Wanted—A No. 1 good rose grower. Address GEORGE NUTTING
109 Cotton Ave., Macon, Ga.

Help Wanted—Single man for fern section, experienced in forcing valley.
J. M. GASSER CO., Rocky River, O.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address
Key 849, care American Florist.

Help Wanted—Assistant for greenhouse and outdoor work; private place; $35.00 a month and board. Address VAUGHAN'S SEED STORE,
84 Randolph St., Chicago.

Help Wanted—At once; grower of general greenhouse stock; must be competent; wages $75.00 per month. Address M. LANGOHR
Bozeman, Mont.

Help Wanted—Experienced seedsman especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist.

Help Wanted—An all-round greenhouse man, single, who understands designing; carnations, 'mums, pot plants and general line of plants; sober, give reference also state wages with board and room. J. M. NUSSBAUMER, San Angelo, Texas.

Help Wanted—We are in need of an all-around young florist and gardener for a small place who understands growing pot plants and cut flowers; steady work for the right man who is not afraid to take hold; good Christian, sober man preferred; board furnished; address stating salary and references to J. RINDFLEISH Beloit, Wis.

For Rent—Four greenhouses and lot; in good condition and good neighborhood; half block from car line. Apply to R. VIRUS,
1939 W. Leland Ave., Jefferson Park, Chicago.

For Sale—Fine greenhouse business with property; only one in good town of 5000 near Cleveland, O.; a paying chance, investigate.
SUSSER & ESTEF, 507 New England Bldg.,
Cleveland O.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked about ten acres land $2,500.00 down ballance on time to suit purchaser.
Key 799, care American Florist.

For Sale—$500 will buy the only greenhouse and florist business in one of the best counties of Illinois. Possession given after June 15. Investigate this bargain without delay. Address
Key 806, care American Florist.

Head Gardener.

Is open to engagement in or aronnd Chicago after December 1. Highly practical in all branches.

Key 804, care American Florist.

Young Man's Opportunity

The advertiser wants a young man who has had some years' experience in practical greenhouse work to call on the greenhouse trade. Good opportunity for young man with ability to sell goods. State age, experience and salary. Address

Key 859, care American Florist.

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M LYNCH,

256 Main Street, Poughkeepsie, N. Y.

Saves Your Printed Matter and Postage.

THE American Florist Company's Directory saves many times its price to every one who catalogues or circularizes even a small part of the trade. Fully revised to date of publication, it puts the mail only to live names, avoiding waste of postage and printed matter, time and labor. Contains 548 pages, lists of Florists, Seedsmen and Nurserymen of the United States and Canada by states and towns, also alphabetically; firms that issue catalogues, foreign merchants, horticultural societies and much other up-to-date information which makes it a reference book of daily utility wherever a wholesale trade is done.

AMERICAN FLORIST COMPANY
324 Dearborn Street, CHICAGO.

Sent postpaid at $3.00 a copy by the publishers.

Roses for Decoration Day

Also **Carnations** and all other **Seasonable Stock.** It is not too early to place your orders as the demand this year promises to be greater than ever.

We Can Take Care of You

As our **Personal Attention** to your needs has given us a constantly increasing business that enables us to supply your wants quickly and intelligently. Write us for Special Prices before placing your orders.

ZECH & MANN, Wholesale Florists, L. D. Phone, Central 3284 51 Wabash Avenue, **Chicago.**

New Crop of Ferns

FANCY AND DAGGER

Log Mosses, Natural and Perpetuated.

Lyrata, (The New Green).

E. A. BEAVEN,

EVERGREEN, ALA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax. Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

New Crop Ferns

FANCY and **DAGGER** ready May 1st.

Special price for large orders

Price $1.25 per 1000.

CALDWELL THE WOODSMAN CO.,

EVERGREEN, ALA.

Meetings Next Week.

Boston, Mass., May 18.—Gardeners' and Florists' Club of Boston, Horticultural Hall.

Detroit, Mich., May 17, 8 p. m.—Detroit Florists' Club, Cowie building.

Grand Rapids, Mich., May 17.—Grand Rapids Florists' and Gardeners' Club, Board of Trade rooms, Pearl street.

Montreal, Que., May 17.—Montreal Gardeners' and Florists' Club, Royal Guardian's building, 211 Sherbrook street, west.

New Orleans, La., May 20, 8 p. m.—New Orleans Horticultural Society, Kolbs hall, 127 St. Charles avenue.

Newport, R. I., May 19.—Newport Horticultural Society.

Pasadena, Calif., May 21, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Philadelphia, Pa., May 18, 8 p. m.—Florists' Club of Philadelphia, Horticultural Hall, Broad street below Locust.

Providence, R. I., May 17, 8 p. m.—Florists' and Gardeners' Club of Rhode Island, 96 Westminster street.

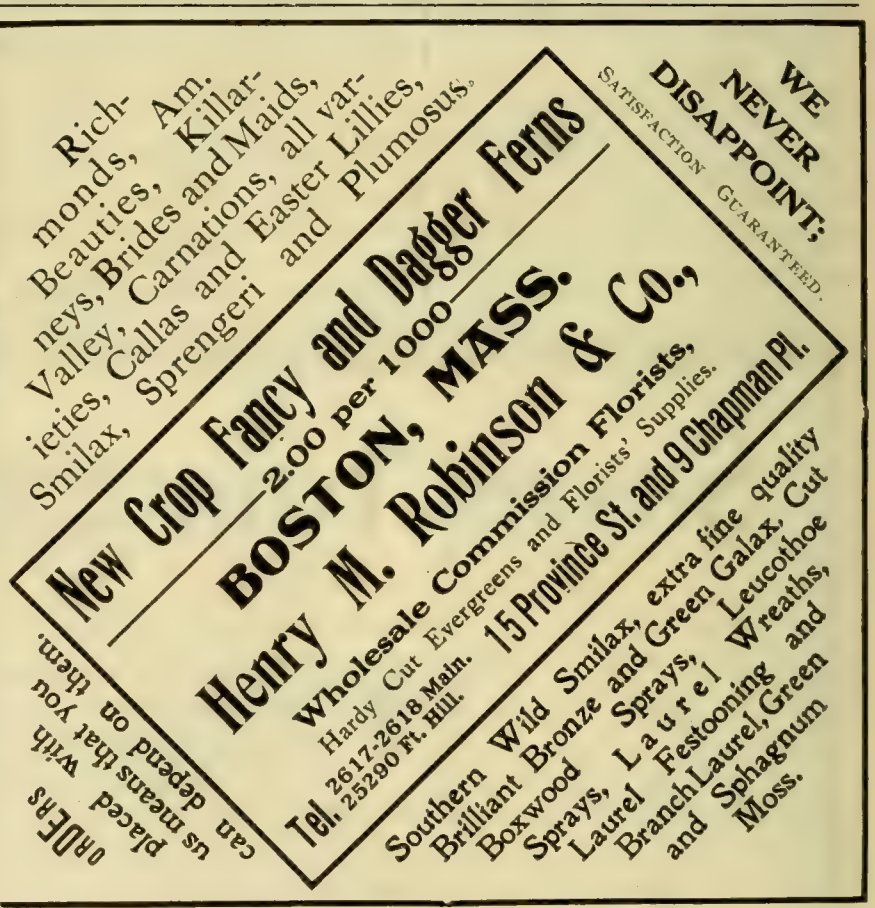
Salt Lake City, Utah, May 18.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

Scranton, Pa., May 21, 7:30 p. m.—Scranton Florists' Club, Guernsey building.

Seattle, Wash., May 18.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.

St. Paul, Minn., May 18, 8 p. m.—Minnesota State Florists' Association, 510 Snelling avenue, north.

Toronto, Ont., May 18, 8 p. m.—Toronto Gardeners' and Florists' Association, St. George's hall, Elm street.



GET ACQUAINTED WITH

The Brookville Moss and Peat Co.

BROOKVILLE, N. J.

Send this ad. and $1.00 and we will ship you one bale, best quality **SPHAGNUM MOSS,** as a sample.

Regular price, $1.60, single bale; five bales, $7.25. This ad. and $5.00 cash will be accepted for four bales if received before June 30, 1909.

THIS AD. WILL NOT APPEAR AGAIN.

KANSAS CITY, MO.—Mothers' day, promoted by the Railroad club of this city, May 1, was well observed. The Alpha Floral Co. state that Mothers' day, May 9, was of little significance in this city.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax, Ferns, Palm Leaves** and all kinds of **Green Goods.**

Mention the American Florist when writing

LONG STEM BEAUTIES

Maids, Brides, Richmond and Killarney

EXTRA FANCY CARNATIONS

Big Crops. **PRICE LIST.** **Low Prices.**

AMERICAN BEAUTIES.

	Per doz.
Extra long	$2 00 to $2 50
20 to 24-inch	1 50
15-inch	1 00
12-inch	$ 50 to 75

KILLARNEY AND RICHMONDS.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	5 00
Short lengths, per 100	3 00

BRIDES, MAIDS AND PERLES.

Extra long and select, per 100	$8 00
Good lengths, per 100	6 00
Medium lengths, per 100	5 00
Short lengths, per 100	3 00
Short Roses, our selection, in lots of 500 or more, per 100,	2 00

CARNATIONS.

Fancy extra long red O. P. Bassett, per 100,		$3 00
Fancy pink, good stock, per 100	$2 00 to	3 00
EASTER LILIES, per doz. $1 50; per 100		10 00
LILY OF THE VALLEY, per 100	3 00 to	4 00
SWEET PEAS, per 100	50 to	1 00
ASPARAGUS SPRAYS, per 100	2 00 to	4 00
ASPARAGUS STRINGS, per string		50
SPRENGERI, per 100	2 00 to	3 00
SMILAX, per doz		2 50
ADIANTUM, per 100		1 00
GALAX, bronze, per 1000		1 50
GALAX, green, per 1000		1 50
FERNS, per 1000		3 00

BUY DIRECT OF THE GROWERS

Bassett & Washburn,

Store and Office: 76 Wabash Ave. **CHICAGO.** Greenhouses: HINSDALE, ILLINOIS.

THE LAST CHANCE

To Dispose of

ALL SPECIALTIES IN

MEMORIAL DAY

Plants and Cut Flowers

SEND ADVERTISEMENTS IN EARLY

Chicago Florists' Club Meeting.

The regular meeting of the Florists' Club was held at the Union restaurant May 6, President Asmus in the chair. The following new members were elected: A. A. La Vogue, 442 Wabash avenue; Otto Goerisch, 19 East Randolph street; P. W. Peterson, Joliet; T. M. Vogel and W. J. Smythe, Thirty-first street and Michigan avenue. Resolutions on the death of E. V. Hallock, Queens, N. Y., were read and adopted. Allie Zech for the bowling club urged more enthusiasm among the trade and hoped there would be a better turnout for future meetings. Bowling takes place at Bensinger's Alleys, 118 Monroe street, every Friday evening. T. E. Waters reported that H. R. Hughes and Fred Lautenslager had recovered from their recent attacks of illness and were again attending to business. He also reported L. Coatsworth and A. I. Simmons seriously ill and the president and secretary were instructed to attend to these cases. Ed. Enders presented his report of the recent cinch party at the Grand Pacific, which was considered a great success by everyone who attended, and returned to the treasury some $8.11 of the amount voted for the occasion. J. C. Vaughan made some comments on the present situation with regard to tariff on seeds and bulbs and this subject brought out considerable discussion, most of those present apparently favoring the specific rather than ad valorem duties. Aug. Poehlmann, however, believed that the changes advocated by the trade committee with regard to bulbs would not benefit the greenhouse growers, but rather tend to the advance of prices by bulb growers abroad, on account of increased demand for the higher grades. E. F. Winterson for the committee on co-operation with the committee of the Horticultural Society on flower show matters stated that a joint meeting of the two committees had been held at which the representatives of the club requested certain exhibition concessions in return for the assistance and co-operation of all the members of the club, entertainment during the flower show to be provided from the profits of said concessions. Mr. Winterson urged that his committee be given full power in this co-operation with the Horticultural Society and this request was granted. The new by-laws were read by title and will come up for final reading and discussion at the June meeting. Chairman Bruns of the auditing committee said his report was ready and would be presented next month. There was some talk of a stag night and the annual picnic, but the details were not sufficiently advanced for publicity.

THE E. V. HALLOCK RESOLUTIONS.

Whereas, The Chicago Florists' Club, recognizing the great loss sustained by American Horticulture and Floriculture in the death of Edward Valentine Hallock, March 2, 1909, his painstaking efforts throughout a busy life to enlarge and elevate these lines of industry by the development of plants and flowers to take the place of those already in hand, particularly the species and varieties of lilium and gladiolus; his penetration and skill in breeding and propagating which wrought such changes in the gladious as to make it a popular and genuine flower of the people at home and abroad, his willingness to impart information acquired by long experience making him at all times a generous benefactor of the trade, his overflowing goodness of heart which made him the friend and counselor of everyone, therefore, be it

Resolved, That we deplore his loss and record here our deep sense of its magnitude, with sincere gratitude for the well directed application which has contributed largely to the making of gardening an art at once educational and inspiring to the community and an honor to engage in it, and be it further

Resolved, That we tender the relatives our sincere sympathy in their greater loss, and further,

Resolved, That these resolutions be made part of our records and copies sent to the family.

April, 1909.

J. C. VAUGHAN.
F. F. BENTHEY.
Committee.

DECORATION DAY
PRICE LIST
A Large Supply of Good Stock in All Lines

American Beauties	Per doz.
Long stems	$4.00
30-in. stems	3.00
24-in. stems	2.50
20-in. stems	2.00
15-in. stems	1.50
12-in. stems	1.00
Short	.75

	Per 100
Richmond, Select	$6.00 to $8.00
" Medium	4.00 to 5.00
Killarney, Select	6.00 to 8.00
" Medium	4.00 to 5.00
Bridesmaid	4.00 to 6.00
Bride	4.00 to 6.00
Chatenay	4.00 to 8.00
Ivory	4.00 to 6.00
Perle	4.00 to 6.00
Sunrise	4.00 to 6.00
ROSES, our selection	4.00

CARNATIONS

Are all good	4.00
Easter Lilies	doz., $1.50
Valley	3.00 to 4.00
Callas	doz., $1.50
Asparagus Plumosus, extra quality	per bunch, 50c to 75c
Fancy Ferns	per 1000, $5.00

Peter Reinberg
35 Randolph St., CHICAGO

Fancy and Dagger FERNS $2.50 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales $1.25
Leucothoe Sprays ..... $1.00 per 100; 1000, 7.50
Boxwood ..... 35c per bunch; 50 lbs.. 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. **DETROIT, MICH.**

WENATCHEE, WASH.—The work of excavating for a greenhouse is in progress on the lots owned by L. R. Tice, at 515 King street, a new company called the Wenatchee Floral Co., has been formed and Mr. Tice is president and general manager.

Extra Fancy Carnation Blooms

Cut fresh every day, $2.00 per 100. Special prices on large lots.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., **Joliet, Ill.**

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 3 00
30 inch stems	2 50
24 inch stems	2 00
20 inch stems	1 50
15 inch stems	1 00
Short stems	75

	Per 100
Killarney, select	$ 6 00
Medium	$3 00 to 4 00
Mrs. Jardine, select	6 00
Medium	3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	6 00
Medium	3 00 to 4 00
Chatenay, select	6 00
Medium	3 00 to 4 00
Richmond, select	6 00
Medium	3 00 to 4 00
Carnations, fancy	2 50
Good	1 50 to 2 00
Easter Lilies, short	10 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Violets	1 00 to 1 50
Valley	3 00 to 4 00
Daffodils	3 00 to 4 00
Callas	12 00 to 15 00

Asparagus Plumosus
Extra quality, per bunch..... 75c
Fancy Ferns, per 1000.....$ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

Chicago Notes.

Louis Wittbold spent Saturday and Sunday at the home of his wife's father at Wheeling.

T. E. Waters, of A. L. Randall Co., left Sunday night on a business trip through the state. He expects to be gone about two weeks.

Vaughan & Sperry expect to be located in their new quarters at 50-52 Wabash avenue by May 20, in time to take care of the Decoration day business.

City Forester Prost urges the establishment of a municipal nursery and subsidiary branches, asserting that shade trees lower the death rate among children and old persons. He also discourages the raising of box elders in the Twenty-eighth ward, and suggests the cultivation of Carolina poplars and elms.

The greenhouses of V. Bezdek, at Wilmette, are to be known under the firm name of the Northwestern Floral Co. Six new houses are going up at Grosse Point, each 25x120 feet, to be planted to American Beauty roses and the best standard carnations. In the fall three more houses will be added to the same range in which sweet peas, to be followed in the spring with American Beauty roses and carnations will be grown. The old establishment at 1775 Charles street will continue to be run in conjunction with the new place.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

Wholesale Flower Markets

ST. LOUIS, May 12.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 6 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 6 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 8 00
" Alice Roosevelt	2 00@ 6 00
Carnations, fancy	2 00@ 2 50
" common	75@ 1 50
Lily of the Valley	3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $3 00	
Smilax	12 50@15 00

CINCINNATI, May 12.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Jonquils	3 00
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, May 12.

Roses, Beauty, special	3 00@ 4 00
" " fancy	2 00@ 3 00
" " shorter	50@ 1 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
" Short	2 00@ 3 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Hyacinths, Roman	2 00@ 3 00
Lilium Longiflorum	10 00@12 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Violets	40@ 50
Asp. Plumosus strings, each	40@ 50
Ferns, per 1000	3 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	15 00

MILWAUKEE, May 12.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodills	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, " "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

Give Us a Trial. We Can Please You

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

— CONSIGNMENTS SOLICITED. —

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

GIRARD, O.—Wm. Gerke has moved into his new house.

BOSTON, MASS.—The fast horse of Michael P. Fahey won two more blue ribbons at a race on Patriots' day.

Chicago.

A DEAD MARKET.

Running the gamut from summer heat to winter's blasts, last week closed with a steady, cold rain on Saturday that lasted through Sunday morning and left the market rather overstocked with carnations which, earlier in the week, had been sufficiently scarce to hold the price very firm. Mother's day was also quite a factor in moving white carnations, but, as usual, several growers held back their stock until late Saturday with the usual result that the market was overstocked and the price fell off. Roses, which had shortened up at the week-end were a glut in the market by Tuesday, even Killarney and Richmond being in excess of the demand. Cattleya Mossiæ which came in in large crop, and of especially good quality were hard to move. Harrisii lilies fell to $1, while callas had quite a call at $1-$1.50. Sweet peas are very plentiful and of especially good quality. A very few good double violets are seen and sell well. There has been no change in the price of common ferns although one house reported the receipt of 200,000. There was very little lilac in the market and smilax was almost a negligible quantity. The demand for all flowers was very light and buyers were almost making their own prices. Whether this paucity of demand was due to the cold weather or the near approach of Decoration day it is hard to say, but the fact remains that, had it not been for the shipping orders on Monday, the market would have been decidedly lifeless.

NOTES.

Mrs. Orland P. Bassett of Hinsdale died early on the morning of May 7 in the Mary Thompson hospital, of tropical intestinal fever. She is survived by Mr. Bassett, her mother, Mary E. Andrews of Berwyn; one sister and four brothers. The funeral was from the family residence in Hinsdale May at 1:30 p. m., the Rev. Dr. Brown, pastor of the Congregational church of which Mrs. Bassett was a member, officiating. Many beautiful and elaborate floral pieces were sent by friends in the trade, who sympathize with Mr. Bassett in his bereavement. Interment was in Oak Forest cemetery.

A lot of good funeral work was handled at the Fleischman Floral Co.'s down-town store during the week, including some exceptionally fine wreaths. One especially, standing about six feet high on an easel, was a superb piece. Blue Spanish irises, stocks, white sweet peas and swainsona were the principal flowers used, and it was a beautiful combination. Some of the finest Richmond roses we have ever seen were shown at this store this week, the product of Geo. Reinberg's range, and also fine Cattleya Mossiæ from the same establishment.

Many Chicagoans observed Mother's day on Sunday and the white carnation, the emblem of the occasion, was in evidence in the church congregations and on the streets. Gifts of flowers were sent to the various hospitals and homes, and members of the G. A. R. and Sons of Veterans observed the day at the request of the national commanding officers.

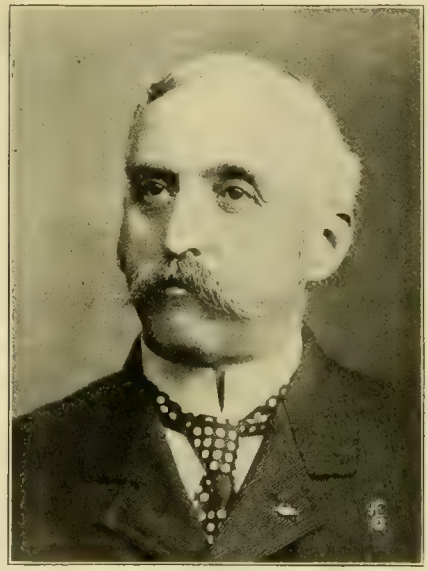
The baseball bug has again innoculated the market and all along the line they are willing to forget business and argue the relative merits of the Cubs and Sox. This is especially true at Peter Reinberg's where Leonard Kill swears that the Cubs will win a fourth straight pennant.

A bill has been introduced in the state legislature to enable the park commissioners to issue bonds to raise funds for the acquisition and improvement of additional small parks. It has been made an emergency measure and will take effect immediately on its passage.

Now that E. C. Cooley is no longer in charge of the public schools it might be a good idea to visit the school board with a view to having the embargo lifted on the custom of giving flowers to the charming girl graduates at the June commencements.

The Geo. Wittbold Co. reports the receipt of large shipments of palms and bay trees from Belgium. Geraniums and bedding stock are in good condition and plentiful with this firm. The decorative work shows no abatement.

Vaughan's Seed Store had a flower garden scene in the window which attracted much attention this week. Baby Rambler, Dorothy Perkins and Hiawatha roses, geraniums and salvias in bloom were the principal plants used.



George Sykes.

Lord & Burnham Co.'s Chicago Representative.

We clip the following from the Tribune: "Leonard Kill of 3469 North Robey street is 37. He was born amid the ruins of the 'big fire,' in a rough shed afterward used as a barn, at the corner of Kinzie and Market streets."

One of the coyotes that escaped from Lincoln park last Saturday ambled by the Geo. Wittbold Co.'s place, and was assisted on its way by the shouts of several of the employes, who chased it as far as Halsted street.

P. J. Foley celebrated his forty-second birthday on Wednesday. The Chicago Tribune, commenting on this fact, says that "everyone in the lumber district knows the 'baby.'"

John M. Clark, secretary of the Leonard Seed Co., has just celebrated his forty-ninth birthday. Mr. Clark lives at 2430 North Paulina street and first saw the light in Scotland.

The Bohannon Floral Co. will move on June 1 from the present location at 29 Monroe street to 11 Monroe street, a store in the new University Club building.

Geo. Reinberg speaks very favorably of the Taylor steam trap, having had one under trial for some time, and has ordered several installed.

Wietor Bros. are cutting 1,200 long American Beauty roses per day and are having no trouble in moving them.

Home-grown peonies promise to be scarce for Decoration day and most of the stock will be southern grown.

The J. B. Deamud Co. is showing some very large daisies, of which it is receiving a large supply.

Poehlmann Bros. Co. were showing some especially fine white peonies on Saturday.

Visitors: W. W. Coles, Kokomo, Ind.; Frank Wolf, Elitch's Greenhouses, Denver, Colo.; H. E. Philpott, Winnipeg, Man.; Otto Will and wife, Minneapolis, Minn., returning from their wedding tour around the world; E. Crooks, Benton Harbor, Mich.; A. L. Glaser, Dubuque, Ia.; S. M. Wyatt, Watseka, Ill.

Quality Counts..

Let us have your next order for
Roses and Carnations
and other Seasonable Flowers.
JOHN KRUCHTEN,
51 Wabash Ave., CHICAGO.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.
21 Wabash Avenue, CHICAGO.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

WEILAND - AND - RISCH
Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

Long Distance Phone, Central **6004.**
Winterson's Seed Store
45-47-49 Wabash Ave., CHICAGO.
Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.
Just received — a fine lot of
BAY TREES, Perfect Shape,
In **Standards, Pyramids** and **Half Standards.**
Have some fine
BOXWOOD
Left, in **Bush** and **Pyramidal Forms.**
Can still supply **CALADIUMS** and **TUBEROSES,** A1 stock.
SUPPLY CATALOGUE FREE

Chas. W. McKellar

51 Wabash Ave.
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Violets, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

"THE BUSIEST HOUSE IN CHICAGO"

We Are There With The Goods, And The Facilities.

J. B. DEAMUD CO.
51 Wabash Ave., Chicago.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

SEND FOR PRICE LIST.
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,
CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO May 12.

Roses, Beauty, extra select		4 00
" " 30 in		3 00
" " 20 to 24 in	1 50@	2 00
" " 15 in		1 00
" " 12 in		75
" " Short		50
		Per 100
" Bride, Bridesmaid, select	5 00@	8 00
" " " medium	3 00@	5 00
" Chatenay, select	5 00@	8 00
" " medium	3 00@	5 00
" Golden Gate, Uncle John	3 00@	8 00
" Kate Moulton	3 00@	8 00
" Killarney, select	5 00@	8 00
" " medium	3 00@	5 00
" Mrs. Marshall Field, select	6 00@	8 00
" " " medium	4 00@	5 00
" Perle	5 00@	8 00
" Richmond, extra select	6 00@	8 00
" " medium		5 00
Carnations	2 00@	4 00
Callas, per doz.	1 50@	2 00
Cattleyas, per doz.		6 00
Daisies	1 50@	2 00
Gardenias, per doz		6 00
Irises	6 00@	8 00
Lilium Harrisii per doz.	1 50@	2 00
		15 00
Lily of the Valley	3 00@	4 00
Pansies	1 00@	1 50
Sweet Peas	60@	1 25
Tulips		3 00
Violets, single	50@	75
" double	50@	75
Adiantum	75@	1 00
Asparagus Plum, strings, each		50
" " sprays	2 00@	6 00
" Sprengeri	2 00@	4 00
Boxwood, per bunch		35
Ferns, fancy, per 1000		4 00
Galax, green, per 100 15; per 1000		1 00
" bronze, per 100 15; per 1000		1 00
Leucothoe sprays	75@	1 00
Smilax, Wild, per 50-lb. case		5 00

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers

All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

The Benthey - Coatsworth Co.

35 Randolph St. **Wholesale Florists** CHICAGO.

NOTICE!

Manhattan Flower Market WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

SPRING FLOWERS PLENTIFUL.

There was little in the condition of the cut flower market during the past week that calls for extended comment. Continued heavy arrivals of American Beauty roses have put the price very low; 10-15 cents each for specials being about the best that could be done with the bulk of that stock. Though it has been a cool spring, much rose stock seems to be falling off greatly in quality, the deterioration of Richmond being very marked. Though the amount of stock of the pink rose, Kate Moulton, that reaches this market is limited very favorable comments are now being passed on the color and keeping qualities of the blooms. It is evidently, if well grown, a rose of substance. The Enchantress, another pink rose being grown at Robt. Simpson's range at Clifton, N. J., is also coming in for many good words. Carnations are still in good quality, and sufficient quantity to supply all demands and have been cleaning up fairly well, though it cannot be told what another week may bring forth. The violet season is about over, though some very fair blooms have recently come in. The versatile street vendors are not losing any time on account of the passing of the violet season. In addition to many fair roses they are handling the surplus of outdoor lilacs, and indications now are that it will be a large surplus. Briefly stated, spring flowers are all about and, for the next few weeks, it will take some lively hustling to move them all.

May 10.—Chaos is the word that fully expresses the condition of the market this morning. It is no longer a question of prices, but a wild scramble to unload surplus stock. Special American Beauty roses are selling as low as eight cents each, and it is a very fine tea rose that brings four cents. Other stocks are being slaughtered in proportion. After an illness of seven weeks, four of which he was bedfast, Frank Millang appeared at his place of business this morning. He has had a severe attack of pneumonia.

FLORISTS' CLUB MEETING.

The regular monthly meeting of the Florists' Club was held on the night of May 10 in the Grand Opera House building. Resolutions were presented on the death of W. C. Krick, long a member of the club. Mention was made of the death of John H. Starin, an honorary member of the club. The following committee was appointed to prepare a suitable memorial on the death of John Scott, a former president of the club: John Birnie, W. E. Marshall and Harvey Werts. On the death of Herman Dreyer, long a member, the following committee was appointed: John Donaldson, Joseph A. Manda and Robt. M. Schultz.

S. S. Butterfield read the paper on "Plant Development" prepared by the venerable C. H. Allen of Floral Park. On account of the delicate condition of his health, Mr. Allen was unfortunately unable to be present. A vote of thanks was tendered Mr. Allen for the paper. There was a general discussion on the subject of a suitable plant market for this city in which a number of members participated. On the motion of Chas. H. Totty the following committee of five was appointed to look into the matter: C. H. Totty, John B. Nugent, Jr., John Birnie, A. L. Miller and Louis Schmutz. There was a fine exhibit of plants and John Birnie received a vote of thanks for his efforts in securing it. The following were the awards:

To Herman Mende, Secaucus, N. J., for geraniums, begonias and mignonette, cultural certificate.

To A. C. Schroeter & Son, Bayonne, N. J., mixed coleus, vote of thanks.

To Fred Engel, West Hoboken, N. J., coleus, vote of thanks.

To A. L. Brown, Kearney, N. J., vines, vote of thanks.

To Chas. Hunt, Staten Island, hydrangeas, fuchsias, pansies and geraniums, cultural certificate.

Geo. Fick, W. Hoboken, N. J., African marigolds, vote of thanks.

Hartmann & Wagenfohs, Winfield Junction, L. I., three plants of Frau Karl Druskie rose, vote of thanks.

Herman Steinhoff, W. Hoboken, N. J., six rambler roses, new variety, vote of thanks. Awards committee wishes to see this rose again.

John Tschupp & Co., W. Hoboken, N. J., geranium, cultural certificate.

John Birnie, W. Hoboken, N. J., Heliotrope geraniums and verbenas, vote of thanks.

John Lappe, Maspette, L. I., phlox, vote of thanks.

Fred Englen, W. Hoboken, coeler, vote of thanks.

John Reickert, Union, N. J., Crimson Rambler roses, vote of thanks.

Chas. Schmieg, Elmhurst, L. I., daisies and verbenas, vote of thanks.

Robt. Leach, candytuft, cultural certificate.

Geo. C. Simms, James Meiklejohn and —— Weissman were elected members. Messrs. Simms and Weissman were presented to the club and made brief but appropriate remarks. It was reported that Wm. C. Duncan, a member of the club, had mysteriously disappeared from his home at Sparkhill, N. Y., on May 4. A letter was read from W. H. Elliott of Brighton, Mass., expressing his appreciation of the reception accorded him while present at the last meeting of the club to read a paper. The resignation of S. C. Byrnes was received, and accepted with regrets.

NOTES.

A report was freely circulated during the past week that Paul M. Pierson had purchased from George Law, the Briarcliff range, noted for its American Beauty roses, which are sold through the New York Cut Flower Co. In addition to being associated with his brother, F. R. Pierson, in the Scarborough range, Paul M. Pierson has been superintendent of the Briarcliff greenhouses which he is now said to have purchased.

Agreeable to previous announcements, the Manhattan Flower Market, 46 West Twenty-eighth street, opened promptly on the morning of May 8, with a good stock and plenty of customers. All who have visited the place have been favorably impressed with the facilities for doing business and Manager Young comes in for congratulations.

On May 2, the Carnegie hero fund commission, in session at Pittsburg, Pa., awarded a silver medal to Mrs. Lulu J. Small, wife of Chas. A. Small, the resident partner in the firm of J. H. Small & Sons. On September 17, 1907, at Sea Gate, Mrs. Small saved two women from drowning. She had previously been awarded a medal by congress.

Chas. Millang has opened a branch store on the ground floor of the Coogan building, Sixth avenue and Twenty-sixth street; Paul Meconi is in charge. The success of his new store at Sixth avenue and Twenty-seventh street, has prompted Mr. Millang to make this new move.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave & W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.
Desirable Wall Space to Rent for Advertising.

V. S. DORVAL, Secretary.

Mothers' day was celebrated here May 9 by the wearing of white carnations by men and women, on the street and in places of worship. Many preachers chose motherhood as a subject for their discourse and many churches were decorated with white carnations.

Mrs. Lulu Small has been awarded a Carnegie medal for her bravery on the occasion of her saving the life of two women at Sea Gate in September, 1907, under circumstances reported in THE FLORIST.

A. Warendorff, of 1193 Broadway executed the prize winning decoration for the automobile parade, held here May 3.

A. Herrmann will sail for Europe May 15 on the S. S. Kronland.

Visitors: Otto Will and wife of Minneapolis, Minn., returning from their wedding trip abroad.

Buffalo.

TRADE FAIR.

Weather conditions are still very changeable and trade only fair. Stock is equal to all demands with carnations still not plentiful. Sunday was Mothers' day but the increased demand for the white carnations was not what could be expected. Speaking from a florist's point of view the day will never be what it should as it always is on Sunday and many of the business men who would be only too glad to honor the mothers on that day are not down town or where the carnation can be had. Possibly by plenty of advertising it may in a few years become popular and a good day for the florists. Let us hope so.

NOTES.

Geo. McClure & Son have just finished the planting of 80 trees, from 8 to 10 inches in diameter and about 30 feet high. The planting was to be done in 30 days, but they had it completed in less than 15 days. The work was done on Penhurst park, one of our new streets in the vicinity of Delaware park, and is a great advertisement for the firm.

Sunday being the first good day in a long while, we journeyed to Eggertsville and called on Christian Christensen. We found him well stocked for spring trade with geraniums, fuchsias, vincas, etc., and three houses of fine carnations. He also has a fine lot of Boston ferns. Mr. Christensen is very hopeful of a good spring trade.

We are sorry to hear of the illness of Chas. Sandiford, which we hope will not be serious.

Mrs. Wm. Scott is very ill and grave fears are entertained for her recovery.

Visitors: Wm. Smith of W. J. Boas & Co., Philadelphia; M. Schloss of Schloss Bros., New York. BISON.

J. K. ALLEN,

Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

Traendly & Schenck,

WHOLESALE FLORISTS,

44 West 28th Street, New York City.
Phones, 798 and 799.

HENSHAW & FENRICH

WHOLESALE FLORISTS

44 West 28th St., Phones: 325 and 5583 Madison Square. NEW YORK.

Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS

J. J. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square.
39 West 28th Street, NEW YORK

Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

A. L. YOUNG & CO

WHOLESALE FLORISTS,

54 West 28th Street, NEW YORK.

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

—FLOWERS SHIPPED BY—

JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

49 W. 28th St., NEW YORK.

Telephone 1998 Madison Square.

Millang Brothers,

Wholesale Florists,

41 W. 28th St. NEW YORK.

N. C. SCHREINER

Wholesale Commission Florist

ROSES A SPECIALTY

41 West 28th Street,
Telephone 6259 Madison Sq., NEW YORK CITY

John Young

WHOLESALE FLORIST,

51 West 28th St., NEW YORK CITY

Long Distance Telephone, 4463-4 Madison Sq.

KESSLER BROS.

50 W. 28th St., NEW YORK.

CUT FLOWERS

Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited

ALFRED H. LANGJAHR

WHOLESALE FLORIST,

55 W. 28th Street, NEW YORK.

All flowers in season. Consignments of first-class stock solicited.

Telephones 4626 and 4627 Madison Square.

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, May 12.

	Per 100
Roses, Beauty, special	8 00@10 00
" " fancy	6 00@ 8 00
" " extra	4 00@ 5 00
" " No 1	3 00@ 4 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	3 00@ 4 00
extra and fancy	2 00@ 3 00
No. 1 and No. 2	50@ 1 00
" Killarney special	4 00@ 6 00
extra and fancy	2 00@ 3 00
" Richmond	50@ 4 00
Carnations fancy and special	3 00
" common	50@ 1 00
Callas, per doz.	40@ 50
Cattleyas	50 00@75 00
Daisies	50@ 1 00
Gladiolus	25 00
Gardenias, per doz.	1 00@ 4 00
Iris German	25@ 1 00
Lilac, Cut, per bunch	50@ 1 00
Lilac Outdoor, per bunch	25
Lilium Longiflorum	3 00@ 5 00
Lily of the Valley	2 00@ 4 00
Mignonette, per doz.	20@ 50
Narcissus	50@ 2 50
Snapdragons (Antirrhinum) doz	25@ 50
Stocks (Double white) per bunch	15@ 25
Sweet Peas, per doz bunches	20@ 75
Tulips	50@ 1 50
Asparagus, doz. bunches	1 50@ 2 50
Smilax	10 00@15 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

FORD BROS.,

Receivers and Shippers of

Fresh Flowers

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Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florists

55 and 57 West 26th Street,

Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located betwteen the two markets.

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK.

Consignments Solicited.

Telephone 7062 Madison Square.

Peonies We are going to be well fixed on Peonies for Decoration Day.

Killarney Fancy, selected. The best grown stock in the United States. Must be seen to be appreciated.

American Beauty coming in splendid supply.
Also getting in nice lot of short to medium **Perles.**

Chrysanthemums
The Novelty of the Season.
Yellow.....$1.25 to $1.50 per bunch

Carnations in good supply and all choice varieties.
Also full supply of all other **Seasonable Cut Flowers.**
We have the goods and facilities for taking care of your cut flower trade.

A. L. RANDALL CO., 19-21 Randolph Street, Chicago
Phone Central 1496
Private Exchange All Departments.

Our Ready Reference Catalogue of Florists', Growers' and Nurserymen's Supplies always gladly sent on request.

Philadelphia.

ROSES PLENTIFUL.

The feature of the past week was the celebration of Mothers' day, which occurred on Sunday, May 9. On this day everyone is to wear a white flower in honor of the best mother that ever lived—their own. This is the third annual celebration of the day or custom, which is the idea of a lady of this city who has for some time worn a white carnation in honor of her mother on her birthday. The beautiful sentiment expressed in the remembrance of one so dear to all met at once with the hearty approval of those who heard of it, and now, at only its third anniversary, the custom has grown and spread far and wide and in this city was so generally observed that everything in the shape of a white carnation was sold, as were also many other white flowers that were used after the carnation supply gave out. The conductors and motormen on all the street cars were each presented with a carnation to which was attached a white ribbon inscribed with the tribute paid to his mother by Abraham Lincoln, "All that I am or expect to be I owe to my sainted mother." The furnishing of this order was in the hands of Frank Polites and called for over 10,000 flowers. On account of the great demand prices stiffened considerably, the best grades of white carnations ranging from $4 to $5 per 100, where before they sold as low as $2 to $3 and were very draggy at that. There are quantities of other flowers, with but little demand. Roses are especially plentiful and prices rule low. Eastern American Beauties are arriving of very good quality. The locals hold their own as yet, but two or three hot days, which are due at any time, will give the imported stock a clear field. Sweet peas, stocks, gilliflowers and Spanish iris are good sellers and are to be had in quantity. Lily of the valley is in fine shape and plentiful. Orchids and gardenias are in good demand and not at all plentiful. Cattleya Mossiæ and C. Schroederiana are the only sorts now in.

The Henry F. Michell Co. is having an exceptionally busy season. Every branch of the business has been worked to the limit. Asters, Semple's Branching, Primula obcorica grandiflora and P. Chinensis are offerings of interest to florists at present.

The Century Shop is displaying a splendid stock of Florentine and American garden pottery. M. Battels is one of the largest importers of these garden ornaments in the country. Bay and box trees are also seen in large assortment.

Chas. McKeegan has now offered his creditors 50 per cent in cash, the former proposal being 25 per cent cash and 25 per cent secured notes. Wallace Faust and Chas. Moltby, his store managers, resigned their positions last Saturday evening.

The Leo Niessen Co. is making a specialty of young pot roses and selling large quantities of Kaiserin, Richmond and Bridesmaid.

Joseph Stern & Co., dealers in florists' supplies, 125 North Tenth street, have had a petition in bankruptcy filed against them. K.

Boston.

A GOOD WEEK

Wholesalers and salesagents report a good week and back up their statement with an empty market at the finish of the week's business. Prices have held well in most cases and in others have advanced firmly. Owing to the weather, fluctuations are daily occurrences and in the specialty classes the dissatisfaction is widespread. Gardening work is completely frustrated by the contrary weather and the present average is about one fair day in which to accomplish six days' work. The market is in an agreeable position. Although short of certain lines there is enough of others to balance but not enough to create surpluses of any significance. Carnations are the most important factor. Prices are not what they should be but in view of the season's setbacks the situation is accepted without reluctance. Best carnations are bringing $3 and miscellaneous stock anywhere from $1 up. May 9, Mother's day, brought out quite a demand for white carnations. American Beauty roses from local growers are plentiful but rather handicapped by a wholesale invasion of other markets who are sending hundreds to the commission men. Killarney from present appearances is finishing the season early and at present is in very poor shape. Some of the finest Richmond of the season is now coming in. Chatenay is in the best condition seen this season. Violets are over and their place is well filled by cattleyas and gardenias. Sweet peas though limited in variety and not of unusual quality are bringing top prices. Preparations have begun in all the stores for Memorial day.

NOTES.

A number of the stores showed entire windows massed with American Beauty roses during the week, displays which are rather unusual in this city. These dealers took advantage of the inducements held out by the larger markets, and Philadelphia and New York goods in good quantities found an outlet in this city to good advantage.

Sydney Hoffman is supervising extensive alterations at his greenhouse establishment at Mount Auburn, formerly the Dee estate. A new house is planned to run lengthwise with the street. This will be the most attractive of all the houses and is to be planted to carnations.

Work on Thos. Roland's two new houses is rapidly progressing and they will be completed early to provide the necessary accommodation for his fall stock.

Pierce Bros., of Waltham, are in the front with early summer specialties, the first of which they are now showing being a fine line of selected gladioli.

The Richmond roses, now being cut from the J. A. Budlong plant in Rhode Island, are perhaps the best seen in the local market this season.

Visitors: J. J. Karins and E. J. Fancourt, Philadelphia, Pa. B.

Baltimore.

STOCK PLENTIFUL.

There was a variety of weather last week, varying from freezing to temperatures up in the eighties, and with a continuance of the heavy windstorms which have characterized the season, and especially heavy from the south. Vegetation, however, remains backward and the flowering date of many outside species is much behind the average. Flowers are abundant, especially roses, which are in excess of demand, while carnations are just about equal to the requirements of the market, white some days being rather short. This is in marked contrast to last year's experience at this time, when there was so great a glut that they could hardly be given away. Sunday, which was Mothers' day, evoked some little additional business, but the influence was not great. Doubtless as the sentiment of honoring the mothers of the land by some such outward token of respect and reverence as the wearing of a white carnation becomes more general, its influence on the carnation market will be more marked. Some of the daily papers were responsible for the statement that white carnations were absolutely not to be had, but this was not true.

SHIPPING TRADE GROWING

The Florists' Exchange finds on settling its accounts for April that the month was among the largest in point of business ever done by that institution. The shipping trade to outside towns and cities grows steadily, and this point is being looked to for daily as well as occasional supplies of flowers which were formerly secured from other markets. Enlarged transportation facilities which are promised by the railroad companies will tend to the expansion of the business.

NOTES.

The Gardeners' Club held its meeting May 10 and received as contributions to the decorations of the walls of its meeting room handsomely executed portraits of its former president, Wm. McRoberts, Jr., and its former financial secretary, William A. Ekas. Other deceased officers will be remembered by similar portraits. One of Robt. J. Halliday, the founder of the club and its first president, has long adorned its meeting place.

Miss Matilda Held, whose health for some weeks has been impaired, is seeking restoration by the sea at Atlantic City. S. B.

ROCHESTER, N. H.—E. A. Coxson is to build another greenhouse near his residence this spring.

SO. PARIS, ME.—Ernest P. Crockett is planning to build a greenhouse on Porter street, where he will go into the florist business.

WILKESBARRE, PA.—The city's campaign against billboards has resulted in an ordinance being passed imposing penalties upon any person erecting or posting bills to any object within 500 feet of any public building, park or playground. An appropriation of $1,380 has been made for the purchase and care of trees.

Peonies for Decoration Day.

You need not hesitate in ordering your Peonies from us. **You** can compare them with others and **you** will find superior value in the kind of stock we can furnish **you.**

Write us for prices. **Your** inquiries promptly answered.

The Leo Niessen Co.

Wholesale Florists, 1209 Arch St. **Philadelphia.**

AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

—Send For Prices.—

W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.

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The Wholesale Florists of Pittsburgh,

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Headquarters for Choice Flowers.

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PEAS, IRIS, ROSES, VALLEY, BEAUTIES, LILIES.

THE McCALLUM CO., Inc., PITTSBURG.

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714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.

WRITE FOR PRICES.

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ABSOLUTELY THE BEST POSSIBLE SERVICE.

Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

Montreal.

MARKET QUIET.

Business last week was somewhat quiet, perhaps the unseasonable weather keeping people in their homes. The supply of cut flowers was not large, so that really no stock went to waste. Bedding plants this year are very backward, the more tender ones like coleus, achyrantes and alternanthera looking miserable. It will take a lot of warm days and nights to grow them into bedding-out shape. There hardly seems to be as much bedding stock grown as last year, and it certainly will not be as good; and if there is a good demand, a scarcity of bedding plants is sure to occur.

NOTES.

The executive committee of the Gardeners' and Florists' Club has completed arrangements for holding monthly floral exhibitions in the club rooms. A schedule of plants, cut flowers and vegetables was drawn up which, it is expected, should suit every member, and we look forward to a large entry list. The first show will take place on May 17.

Several of the private gardeners have started off for themselves into landscape gardening and are doing well; there is a good demand for work of this kind. The nurseries are doing a big trade this year; the planting season will be a long one this spring, as there is no sign of any foliage starting yet.

Several large consignments of trees, shrubs and vines from Holland have been auctioned off lately. One lot consisted of thousands of roses only. How many will there be in bloom next year of these?

A plant of Dendrobium Wardianum, grown by Geo. Pascoe, president of the Gardeners' and Florists' Club, shows 98 flowers, all open at the same time.

LUCK.

Wholesale Flower Markets

PHILADELPHIA, May 12.	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac ..... per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, May 12.	Per 100
Roses, Beauty, specials	20 00@25 00
" " extras	8 00@12 00
" " No. 1	5 00@ 6 00
" Bride Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 50@ 3 00
Lilium Longiflorum	10 00
Lily of the Valley	3 00@ 4 00
Pansies	1 00@ 2 00
Sweet Peas	50@ 75
Tulips	2 00@ 4 00
Violets double	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, May 12.	Per 100
Roses, Beauty best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—

Carnations, Roses, Beauties,

All Seasonable Flowers.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

The Prickly Pear.

ITS COMMERCIAL POSSIBILITIES.

In consular and trade reports communications have appeared on the utilization of the prickly pear, especially in Australia, as to whether it should be eradicated or cultivated. An article in the East African Standard, transmitted by Consul Arthur Garrels, of Zanzibar shows that the question of cultivating the prickly pear for its commercial possibilities is now being earnestly discussed in south and central Africa.

While the British and South African Export Gazette, which had drawn attention to the pear for its good qualities, claims that it is suitable for the production of soap, spirits, cattle food, unbreakable domestic utensils, linoleum substitute, sugar, leather, etc., the manufacture of paper therefrom would seem to be the only case wherein actual experiments have been made, the Gazette stating that paper from the prickly pear has already been manufactured in Port Elizabeth. It says that if the prickly pear were used exclusively as a substitute for wood pulp the field is almost unlimited, for there is no likelihood of there ever being a shortage of supplies.

EVANSTON, ILL.—Miss Isabel Bietly, a teacher at the high school, and a friend whose name has not been divulged will start a violet farm at Lawton, Mich. Miss Bietly will superintend the erection of the greenhouses and will do most of the work in connection with the growing herself.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.
WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
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1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

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Write, Wire or Phone Your Orders to
YOUNGS
1406 Olive Street,
Regular discount allowed on all orders, either Plants or Cut Flowers.
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CUT FLOWERS
For Tourists and General Trade.
Wire or mail. Highest Grade Stock Only.
URIAH J. **VIRGIN,** 838 CANAL ST.

Louisville, Ky.
Established 1880.
Orders for delivery in this city and nearby points in the South solicited by
M. D. REIMERS,
Successor to Chas. W. Reimers'
329 FOURTH AVENUE.

Louisville, Ky.
JACOB SCHULZ,
550 So. Fourth Avenue.

SAVANNAH, GA.—"Floral Fancies" is the title of an attractive folder issued by John Wolf, containing the language of flowers and quotations from the poets.—Horace Cheeseman, representing Vaughan's Seed Store was a visitor May 3.

DAYTON, O.—The members of the Florists' Club will go to the convention of the Society of American Florists to be held at Cincinnati, August 18-25, in a special car. The Montgomery County Horticultural Society has been invited to go with them.

WASHINGTON, D. C.—F. H. Kramer, gave a reception at his home in the Clayton apartment house, Sixth and H streets northwest, May 3, which was attended by half a hundred friends of himself and Mrs. Kramer, his bride of a few weeks. Pistoria's stringed orchestra furnished the music for the occasion, and, following an entertainment, a luncheon was served.

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Canada's Best Known and Most Reliable Florist.
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Best Quality on Shortest Notice
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Order by mail, telephone, telegraph or cable. Cable address "Daniels, Denver"

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Gude's

Philadelphia, Pa.
Robert - Kift,
1725 Chestnut Street.
Prompt and Careful Attention given to all Mail and Telegraph orders.

Buffalo, N. Y:
Palmer's
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EYRES
Flowers or Design Work.
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.
11 NORTH PEARL STREET,

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25 Clinton Avenue, N.
Rochester Phone 506. Long Dis. Bell Phone

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Bertermann Bros. Co.
FLORISTS
.....241 Massachusetts Ave.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

GEO. M. KELLOGG ESTATE,
906 GRAND AVENUE
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone **247.**
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen
—FLORIST—
Special attention to Telegraph or Telephone orders. **Phone 1912.**

Atlanta, Ga.

ATLANTA FLORAL CO.
41 Peachtree Street.

Hoffman FLORIST
59-61 Massachusetts Ave. cor. Commonwealth Ave.
BOSTON.

San Francisco, Calif.

J. B. BOLAND
Successor to Sievers and Boland.
FLORIST
60 KEARNEY STREET.

Anderson, S. C.

THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Colorado Springs, Colo.

FRANK F. CRUMP,
Wholesale and Retail Florist.

A sign like this in your window will draw good business now.

Steamship Sailings.

Week Ending May 22.

May 18, Noordam, New York-Rotterdam.
May 18, Kronp'z'sen Cecilie, N. Y.-Bremen.
May 18, Kaiser Wilhelm II, Bremen-N. Y.
May 19, Merion, Liverpool-Philadelphia.
May 19, Lusitania, New York-Liverpool.
May 19, Teutonic, New York-Southampton.
May 19, Majestic, Southampton-New York.
May 20, Carpathia, New York-Trieste.
May 20, La Savoie, New York-Havre.
May 20, United States, Copenhagen-N. Y.
May 22, Sardinian, Montreal-London.
May 22, Furnessia, New York-Glasgow.
May 22, California, Glasgow-New York.
May 22, Cleveland, New York-Hamburg.
May 22, New York, New York-Southampton.
May 22, Philadelphia, Southampton-N. Y.
May 22, Haverford, Philadelphia-Liverpool.
May 22, Carmania, New York-Liverpool.
May 22, Campania, Liverpool-New York.
May 22, Caroline, New York-Havre.
May 22, Lapland, New York-Antwerp.
May 22, Marquette, Antwerp-Boston.
May 22, Baltic, New York-Liverpool.
May 22, New Amsterdam, N. Y.-Rotterdam.
May 22, Sannio, New York-Naples.
May 22, Koenigin Luise, New York-Genoa.
May 22, Prinz F. Wilhelm, Bremen-N. Y.
May 22, Lituania, New York-Libau.
May 22, Luisiana, New York-Genoa.

Alexander McConnell,
571 Fifth Ave, Windsor Arcade,
NEW YORK CITY.

Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
Western Union Code.

Detroit, Mich.

John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.

HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Los Angeles, Cal.

J. W. Wolfskill,
FLORIST,
Telegraph Orders a Specialty. **218 W. 4th St.**

Owatonna, Minn.

Clinton Falls Greenhouses,
(100,000 sq. ft. of Glass.)
The Leading Wholesale and Retail Florists of the Northwest.

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in **WISCONSIN.**

The Seed Trade.

American Seed Trade Association.
Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

SHENANDOAH, IA.—Henry Field, the seedsman, is on an eastern trip.

W. ATLEE BURPEE & CO.'S Farm Annual for 1909 is in its third edition.

WATERLOO, ONT.—The Ontario Seed Co. has been incorporated with capital stock $40,000.

ANXIOUS CUSTOMER.—"If you have no Burbank potatoes on hand, please wire to California for this wonderful new variety."

DUTCH BULBS.—Holland cable dispatches of May 11 indicate that hyacinths and tulips are very fine crops this season.

IT has stopped raining in California and already growers begin to anticipate trouble therefrom. Late sown lettuce may be affected and possibly sweet peas.

HOLLISTER, CALIF.—The A. J. Pieters Seed Co. has commenced suit, through its attorney, Geo. W. Jean, against the Braslan Seed Growers Co. for the sum of $3,353.12.—Hollister Bee, May 7.

C. L. ALLEN, Floral Park, N. Y., is reported very low and his grandson Linnæus Allen was called home from St. Paul on his contract trip on account of the illness of his grandfather.

DES MOINES, IA.—Most of the local retailers have reduced the price of seeds about 20 per cent to all who intend to plant gardens under the auspices of the various clubs for city beautification.

VISITED NEW YORK: Carl Cropp, of Vaughan's Seed Store, Chicago; J. J. Van Waveren, of L. Van Waveren & Co., Hillegom, Holland; G. C. Eldering, of W. J. Eldering & Son, Overveen, Haarlem, Holland.

CHICAGO.—Contract prices on the board of trade May 11 for grass seed were noted as follows: Prime timothy, $3.80 (nominal); white clover, $16.—Visitors: J. A. Vandervoort, representing C. J. Spielman & Sons, Sassenheim, Holland; Henry Field, Shenandoah, Ia.; J. J. Van Waveren, of L. Van Waveren & Co., Hillegom, Holland.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF

New York Seed Bill.

The appended is Callan's bill to amend the agricultural law in relation to inspection and sale of seeds. The bill has passed the assembly and senate and is now before the governor for his signature, and those who have followed the matter closely think there is no doubt that it will meet with his approval. If the governor signs the bill it will go into effect July 1, 1909:

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1, Chapter 9 of the laws of nineteen hundred and nine, entitled "An act in relation to agriculture, constituting chapter one of the consolidated laws," is hereby amended by adding at the end thereof a new article to be article sixteen thereof, to read as follows:

ARTICLE XVI.

INSPECTION AND SALE OF SEEDS.

Sec. 360. Inspection and sale of seeds.—No person shall sell, offer, expose or have in his possession for sale for the purposes of seeding, any seeds or cereals, grasses, clovers or forage plants in quantities exceeding one pound, unless every receptacle, package, sack or bag containing such seeds, or a label securely attached thereto, is marked in a plain indelible manner as follows; and said marks shall be on the receptacle, package, sack or bag itself if there is more than ten per centum of injurious foreign seed:

a. With the full name and address of the seller.

b. With the name of the kind or kinds of seeds, except in the case of mixtures prepared for special purposes, when so labeled, and the name of any foreign injurious seeds present to the extent of five per centum or over by count and the name and per centum of the following adulterants, if present, which adulterants shall not be taken into consideration when estimating the five per centum herein above referred to:

Yellow trefoil in red clover.

Yellow trefoil, burr clover, sweet clover or dodder, in alfalfa.

Canadian blue grass in Kentucky blue grass.

Meadow fescue or rye grass in orchard grass. Yellow trefoil in alsike clover.

c. With the claimed per centum of purity of the sample by count which shall be not more than five above the per centum determined by official examination.

Sec. 361. Samples, publication of results of examinations.—Samples of seed shall be taken in duplicate, both samples to be sealed promptly and one to be tendered and, if accepted, to be delivered at the time of taking to the person apparently in charge and a receipt taken therefor, unless refused. No action shall be maintained for violation of this statute if the seed was not sold or exposed for sale. The commissioner of agriculture is hereby authorized to publish from time to time the results of seed examination, together with the names and addresses of dealers from whom the samples examined were taken.

Sec. 2. This act shall take effect July one, nineteen hundred and nine.

[Without reference to other items, the last part of section 361 is open to criticism in that the publication of results of these tests is authorized under the law, but no requirement is made that the commissioner first notify the seedsmen of the fact that the said tests are not commercial. It was conceded at the hearing of the seedsmen before the Interstate and Foreign Commerce Committee at Washington in April, 1908, that it was unfair to make publication of any tests reflecting on the seedsman without giving him prior notice that such publication was to be made, and opportunity to offer a reasonable explanation.—ED.]

VAUGHAN'S NEW SEED STORE AT BARCLAY AND CHURCH STS., NEW YORK.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

Imports.

During the week ending May 8 imports were received at New York as follows:

J. Roehrs Co., 99 cases plants, 316 tubs laurel trees.

McHutchison & Co., 55 cases plants.

H. Frank Darrow, 40 cases plants, 76 tubs laurel trees.

A. Rolker & Son, 14 cases plants, 70 tubs laurel trees.

Maltus & Ware, 16 cases, 160 pkgs. plants, 2 cases orchids.

C. F. Meyer, 7 cases plants.

Carrillo & Baldwin, 2 cases plants.

Botanical Gardens, 1 pkg. specimen plants.

J. M. Thorburn & Co., 5 bbls. seed.

H. Nungesser & Co., 6 bags clover seed.

To others: 79 cases, 3 bbls., 100 pkgs., 1 bale plants; 2 bbls. rose bushes; 422 tubs, 241 pkgs., 3 hampers laurel trees; 2,333 bags, 75 cases, 180 bbls. seed; 3 cases bulbs, 5 cases orchids.

S. M. Isbell & Co.
Jackson, Mich.
Contract Seed Growers,
Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,
Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1 50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

O. V. ZANGEN, Hoboken, N. J.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

The Everett B. Clark Seed Co.
Growers for the Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches; Michigan, Wisconsin.
MILFORD, CONN.

Seeds for Florists
Send me your wants in Flower Seeds.
Bulbs for Florists.—Tuberous Begonias. Sigle and Double Tuberoses—splendid bulbs.
Vegetable Seeds for Forcing.
Let me quote and send catalogues.
STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

Jay J. Utter, BRAVO. MICH,
Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Vick Quality Asters
The Standard of Excellence.

Introduced by us grown everywhere
Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King
And many other money-making varieties.

Other Recent Introductions.
Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal
See our adv. in Christmas Number

New Varieties
VICK'S MIKADO PINK.
Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.
VICK'S IMPERIAL LAVENDER
Similar to Daybreak, except in color. 1-64 oz. 40c; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.
VICK'S NON-LATERAL BRANCHING
A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3 00.
Send for our Aster Book for Florists.
James Vicks' Sons, Rochester, N. Y.

Mention the American Florist when writing

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds
April is the month to sow this seed.
ASPARAGUS PLUMOSUS NANUS,
Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.
ASPARAGUS SPRENGERI,
100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.
VAUGHAN'S SEED STORE,
NEW YORK. CHICAGO.
Green houses, Trial Grounds and Nsurery, Western Springs, Ill.

Improved Teneriffe Onion Seed
Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. Varela's Improved Onion Seeds will give best satisfaction to growers. Insist on getting them It will pay you.
Federico C. Varela, Teneriffe, Canary Islands

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

STOCK SEED
For Winter Blooming. Our strain of Double Branching Stocks is exceptionally true. About 90 per cent. Double Flowers

In colors	⅛-oz. 60c;	oz. $4.00
Pure white	⅛-oz. 75c;	oz. 5.00

H. E. FISKE SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

Originators Winter Flowering
SWEET PEA SEED
All colors. Send for list and prices.
ANT. C. ZVOLANEK,
BOUNDBROOK, NEW JERSEY

NOW READY 1909 EDITION **Trade Directory.**

Vaughan's Lilium Harrisii

Careful Selection of Both Plants and Bulbs.

WITH a good crop of **"Harrisii"** in sight, it would be well for growers to remember that Easter comes on March 27th in 1910, which makes it necessary to force a lily that you can depend on getting in on time. Remember, while we do not claim that our **"Harrisii"** are absolutely free from disease, or that every bulb will produce a perfect plant, we do claim that our grower's efforts in the way of spraying and rogueing are producing results, our stock now being freer from disease than ever before and of genuine **"Harrisii"** type — in fact, the best general crop grown on the Island of Bermuda.

Vaughan's Seed Store

CHICAGO:
84-86 Randolph St.

NEW YORK:
25 Barclay St.

ANNOUNCEMENT

JOHN SCOTT, Rutland Road, Flatbush, N.Y.

The business of the late JOHN SCOTT will continue under able management. The reputation of the house for the finest Plants and Cut Flowers will be maintained. The patronage and confidence of the public is solicited.

This opportunity is taken to gratefully acknowledge the kindness and sympathy of all for his family, and to guarantee that the same care and enterprise characterizing the record and reputation of Mr. Scott in the past will be continued.

The Longevity of Seeds.

A study has been made of a large number of seeds ranging from fresh seeds to those known to be 60 or more years old, to determine their germination, according to A. J. Ewart in the proceedings of the Royal Society of Victoria. In all more than 3,000 tests were made, embracing many species and genera. The results of the tests are given in alphabetical lists, and with these are incorporated all the previous records that the author was able to verify or correct. In summarizing the tabulated results, the author divided seeds into three biological classes, according to their duration of life under optimal conditions. These are short-lived or microbiotic seeds whose duration does not exceed three years, mesobiotic seeds which may last three to 15 years, and macrobiotic seeds which may last from 15 to over 100 years. In an appendix Miss Jean White gives an account of experiments in which she found that hard seeds which are incapable of imbibing water owe their failure to take up water to the presence of a cuticular layer, and that when this is removed or penetrated either by mechanical means or the action of acids, the seeds swell rapidly, and if their vitality is sufficient, germinate quickly. It is claimed that Becquerel's conclusions that the impermeability of the coats of macrobiotic seeds as a gradual result of their aging are incorrect. The impermeability is due to the presence of a cuticle developing during ripening, and its presence or absence determines whether a seed will or will not have a long life in the soil, but not whether it will have a long life when preserved in dry air. Macrobiosis is the result of a biological adaptation of the protoplasm, in which an impermeable cuticle plays a merely accessory or aiding part.

Chinese Beans for England.

Consul Roger S. Greene, of Dalny, was informed by the Hitsui Bussan Kaisha that they have received a trial order from England for 1,300 tons of Manchurian beans, the shipment going to Liverpool. The consul adds:

"It is understood that the beans are to be used as cattle feed. If this first shipment proves a success, it is expected that other orders will be regularly forthcoming. This is an event of considerable importance to this city, as hitherto there have been no exports from Dalny to any other countries than Japan, China, and Korea, and ships bringing imports from Europe and America have been obliged to go away empty. If outward cargo can regularly be obtained here by foreign steamers the conditions for shipping to this port from America and Europe should also greatly improve. Rates might not be greatly affected, but at least more frequent sailings might be looked for. At present normal imports alone are not sufficient to secure regular connections."

HARTLAND, N. Y.—White Bros. are building a new greenhouse.

BOSTON, MASS.—About 200 landscape gardeners, architects and artists met, May 11, under the auspices of the National Academy of Art, the object of the meeting being to form a national art federation. The convention was presided over by Chas. L. Hutchinson of Chicago, first vice-president of the National Academy of Art, and was addressed by Senator Root of New York.

Wm. Hagemann & Co.

Hudson Terminal Building, 30 CHURCH ST.

NEW YORK

The business formerly carried on by Mr. Wm. Hagemann, (who died on April 3rd, 1909) *is being continued* at the same address as heretofore under the management of Mr. PAUL KÄSE (for many years associated in the business with Mr. Hagemann) and Mrs. WM. HAGEMANN.

Fischer's Grand Freesia

PURITY

The Unequalled, White Decorative Freesia :: ::

Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed, avoiding all danger of mixture, as **Purity** does not come true from seed. Dealers getting their stock from me will always be sure of getting the purest stock.

For sale by the Leading Seedsmen :: :: :: ::

RUDOLPH FISCHER,

San Gabriel, R. F. D., Calif.

Lily of the Valley

MANN'S EXCELSIOR

Are the finest in existence and their flowers bring the best prices in the London market. For quotation please apply to

OTTO MANN, Leipzig, Saxony, Germany

THE WORLD'S BEST DAHLIAS

The following speaks for international confidence in Peacock's New Dahlias—**a confidence never betrayed:**

MESSRS PEACOCK New Jersey: ROTHESAY, 28th April, 1909.

Dear Sirs:—We are favoured with a copy of your Dahlia catalogue and will thank you to send us carefully packed by post:

6 plants of new Dahlia Jack Rose and 6 plants of Virginia Maule.

We hope that these will travel safely, as we would like to try these new varieties. Yours faithfully, DOBBIE & CO.

Every Seedsman and Florist will consult their best interest in sending for our catalogue of **"New Creations in Dahlias. New Decorative, Show, Fancy, Art or Peony-Flowered, Century and Cactus Dahlias.** Quality only considered.

Guaranteed Just as Represented. Reference: National State Bank, Camden, N. J.

PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.

NEW CANNA

W A W A

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

——Send for List:——

The Conard & Jones Co.

WEST GROVE, PA.

Caladium Esculentum

(ELEPHANT EARS.)

Reduced Prices for Quick Orders

Size.	Per 100	Per 1000
5 to 7 inches	$1 10	$ 9 00
7 to 9 inches	2 10	18 50
9 to 11 inches	3 65	35 00
11 inches upward	6 50	65 00

Packed and f. o. b. cars at Richmond.

These prices are very low and should prove profitable sellers for local trade or to induce the planting of large beds for show purposes.

T. W. WOOD & SONS,

Seedsmen, Richmond, Va

WINSTED, CONN.—Carl Swenson, has bought a new automobile.

READING, PA.—An enterprising colored man was selling carnations at 12 cents per dozen and roses of good quality two for five cents on the street recently.

PUTNAM, CONN.—E. M. Arnold has put up two large greenhouses.

ROCKY RIVER, O.—Chas. C. Christensen has incorporated his business for $50,000. It will be known as the Rocky River Greenhouse Co.

GREENPORT, N. Y.—Augustus Ham is erecting a greenhouse and will go into growing here.

NEWPORT, R. I.—Henry J. Hass, has rented of A. O'D. Taylor a tract of land for agricultural purposes.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

SOUTH FREEPORT, ME.—J. J. Turner is preparing a large vegetable garden in connection with his Casco Castle Greenhouses.

ACCORDING to experiments carried out at the Maryland Experiment Station, commercial fertilizers plowed down are more satisfactory than if used as a topdressing on prepared land, the ratio being about 198 to 174.

Cucumbers.

Tomatoes and cucumbers do not require the same treatment. It has been found that tomatoes do best if not syringed at all, while with cucumbers we must use water freely on the foliage, both to keep them growing vigorously and to keep down red spider, their great enemy. Cucumbers flourish in a high temperature which means we must correct the air by adding ample moisture. At times it it best to dampen the walks several times a day. For pollination, bees are the most efficient method; to compel them to give attention to our crop the hive should be inside the house. This will encourage them to come out and work in bad weather.

The general mistake made in cucumber growing is a lack of fire heat. Lettuce growers generally are too economical with coal; just as soon as freezing temperatures are past they stop firing. Now cucumbers will not only stand still whenever the temperature drops below 60°, but they are actually hurt during cold rainy spells without heat. It makes no difference whether the rainy spell occurs in March or June—keep up the temperature. Cucumbers, like tomatoes, require ample feeding and generally phosphates and potash are needed to balance up old greenhouse soils. Few dealers realize the enormous amount of water needed by a house in full crop and very often we allow the vines to suffer for want of water, down in the lower strata. What water is given never reaches the lower roots. To correct this, dig in with a spade or trowel and find out the exact condition. MARKETMAN.

Tomatoes.

At this time suckering the in-door tomatoes is the all-important job. They should not be neglected as the side shoots draw a good deal of strength, but most of all, they have a tendency to make the newly set fruit drop, or to prevent setting of fruit altogether. Some operators still stake them under glass; we much prefer the string. Again some tie to the strings, that is, they use short pieces of twine or raffia and tie the plants to the strings same as to a stake. This seems rather unnecessary as twisted vines do fully as well and the operation is so much quicker. A handy person can sucker and twist the plants with one move.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed) the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

In late spring and summer we simply snap the cluster of bloom with the finger or tap it with a pencil to scatter the pollen. The best time is a sunny morning between 10 and 12. It pays to do this as we get early fruit and perfect specimens.

When putting up new wires, be sure that each section is self-supporting; for if all the load pulls on the ends either the vines will break or the ends of the houses draw in under a heavy load. To fasten the strings to the lower part some use a screw wire which they screw into the ground like a cork screw; others bury wire hooks when the plants are set. In an emergency we have tied directly to the plants, with a loose tie, and could find no fault with this method. American flax twine will answer every purpose and is cheaper than manila; we mean such twine as farmers use for binders. Do not fail to supply bone meal liberally, supplemented with either wood ashes or sulphate of potash so that the proportion stands about 8 per cent phosphate, and 12 per cent potash.

While the plants are not in heavy fruit we hoe them regularly once a week and supply only enough moisture to regulate the air in solid bed houses. When the fruit commences to swell, we topdress with manure, fresh or old as we may have it, and from then on water is needed in quantity. However, after plants have run on the dry side, water should be increased gradually, as an undue amount all at once will cause the young fruit to split. The grower should bear in mind that black rot of the fruit is caused by a lack of water at the root. The plain green leaf is always a sign of too much water; the bluish tint, of too little water; and a metallic lustre, all over, stem and leaf, indicates proper fruiting conditions. Those who force Comet, Stirling Castle or Frogmore should feed liberally to get fine size and meaty fruit. With American kinds we may go more sparingly to prevent over-weight. MARKETMAN.

Solid Beds Versus Benches.

FOR LETTUCE AND TOMATOES.

The difference of opinion in connection with the growth of crops upon an ordinary solid bed or upon raised benches with heating pipes beneath, continues to be an interesting one with greenhouse men. Many establishments have both styles and get good results from each. Like many other problems relating to horticulture, conditions enter largely into the question, of which some are, the crops to be grown, value of lumber to renew benches, liability of the soil to become infested with disease spores and insects. The items herein noted have been gathered from the work with various crops.

The solid bed, running through the center of the house, was eight feet six inches wide and two feet deep. The benches were two feet and six inches above the floor with hot water pipes beneath. They were three feet eight inches wide, six inches deep, and were placed within eight inches of the glass sash on the side walls. Six inches of the surface soil of the solid bed was renewed each year. All of the soil on the benches was taken off and replaced by new soil annually.

With regard to diseases, it cannot be said that there were any more on solid beds than on benches. Regarding insects, however, the nematode worm got into the solid bed planted in tomatoes and lived over from year to year, usually interfering a good deal with the second crop. Data on crop of tomatoes and lettuce are available for comparison of this work.

Tomatoes—The average of four crops per plant on benches was 10.4 fruits, weighing two pounds three ounces. The average on solid beds was 13.1 fruits, weighing two pounds two ounces. The fruits ripened on both beds at the same time and there was practically no real difference in results except that the fruits from the benches

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10 000 and over	85
Beets, Crosby, Egyptian and Eclipse	1 25
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 25
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	3 00
Chinese Giant and Cayenne	50c per 100

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

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324 Dearborn St., CHICAGO.

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Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN
WELL ESTABLISHED Plants

Kentia Belmoreana

		Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high		$ 6 00	$50 00
		Each	
6-in. " " "	22 to 24 in. high	$1 00	$12 00
6-in. " " "	24 to 26 in. "	1 25	15 00
6-in. " " "	26 to 28 in. "	1 50	18 00
9-in. tub " "	42 to 48 in. "	5 00	

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high.....$ 4 00 each
12-in. " 4 plants, 6 feet high heavy..... 15 00 each

Joseph Heacock Co., Wyncote, Pa.

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HIGH CLASS **PALMS**
and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.

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CARNATIONS, for fall delivery. SMILAX. VIOLETS
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WE ARE NOW BOOKING ORDERS. PRICE, 40 CENTS, CASH WITH ORDER.

The American Florist, 324 Dearborn Street, **Chicago.**

were slightly larger than the others and the plants on solid beds continued to produce fruit later in the spring than did those on benches. The solid bed was easier to water than the benches.

Lettuce—The records show that while the midwinter crop was usually about equal on the solid bed and bench, the spring crop was heavier on the solid beds.—Bulletin of the Maryland Experiment Station.

Prices of Indoor Fruits and Vegetables.

The prices of indoor vegetables at leading points May 8 were as follows: New York—Cucumbers, 50 to 75 cents per dozen; mushrooms, 25 to 45 cents per pound; mint, 30 to 40 cents per dozen bunches; radishes, $1 to $2 per 100 bunches; rhubarb, $1 to $4 per 100 bunches; tomatoes, 10 to 20 cents per pound. Chicago—Cucumbers, $1 to $2 per dozen; head lettuce, $1.50 to $2.50 per hamper; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, 75 cents to $1.75 per pound; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Cincinnati—Cucumbers, 85 to 90 cents per dozen; mushrooms, 50 cents per pound. Boston—Cucumbers, $5 to $6 per box. Kansas City—Cucumbers, 75 cents to $1.25 per dozen.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June 9-11, 1909

VISITED CHICAGO: ——— Ebbinge, of Ebbinge & Van Groos, Boskoop, Holland.

HOPEDALE, ILL.—Harry Squires and Joseph Hatlinger of Green Valley have purchased the Hopedale Nurseries.

PEONIES.—Arthur H. Fewkes, Newton Highlands, Mass., secretary of the American Peony Society, is anxious to hear from peony growers as to the time their plants will be in bloom this season. This information is desired in order that the date of the annual convention and exhibition of the society, which will be held at Queens, N. Y., next month, may be fixed to suit the greatest number.

American Association of Nurserymen.

ROCHESTER CONVENTION, JUNE 9-11.

The following transportation arrangements have been made for the convention of the American Association of Nurserymen to be held at Rochester, N. Y., June 9-11: For the accommodation of those coming from Kansas, Oklahoma and the southwest territory, it is proposed to provide a special Pullman sleeper to run through from Kansas City to Rochester, this car to leave Kansas City via the A., T. & S. F. at 7:30 p. m. Sunday, June 6, arriving in Chicago at 9:15 the next morning. Leave Chicago via Michigan Central, Niagara Falls route, at 3 p. m., arriving Rochester at 8:50 Tuesday morning, June 8; stop enroute being made at Falls View station to afford a most comprehensive view of Niagara Falls from this point of vantage.

You are cordially invited to join the special car party to go from Kansas City as above indicated, and I will thank you to write direct to C. C. Merrill, traveling passenger agent, Michigan Central R. R., Tenth and Walnut streets, Kansas City, Mo., for your sleeping car reservations, indicating the number in your party and same will be made for you.

Delegates from Illinois, Iowa, Nebraska, Wisconsin and Minnesota are also requested to time their arrival at Chicago on Monday, June 7, to go together on Michigan Central 3 p. m. train the same date, thus adding much to the social features of the trip. Those joining the party at Chicago should write direct to L. D. Heusner, general western passenger agent, Michigan Central, 236 Clark street, Chicago, for their sleeping car reservations, indicating the number in the party, and he will make assignments, also give all further information regarding rates, etc.

This is to be one of the most important meetings in the history of the association, and in view of the fact that Rochester is an ideal convention city a large attendance is desired and we feel is positively assured, therefore do not fail to come.

Ottawa, Kans. F. H. STANNARD.

Trees and Shrubs for the Water Side.

The beauty of a lake or stream depends largely on the nature of the plants which fringe its margin, and the arborescent growth plays an even more important part than that of herbaceous character, for well-placed and suitable trees and shrubs break up the margin and offer a succession of fresh views, instead of allowing the eye to take in the whole of the water at once. While, however, it is highly essential that tree and shrub life should be found in the vicinity of a lake, it ought not to be overdone, and the various plants used should be so arranged that good views can be obtained of ample sheets of water, and also that each tree or group of trees opens out a fresh vista.

Although most kinds of trees will thrive on the banks of lakes where the ground is not marshy, some do not associate well with water. Heavy-looking trees, as a rule, are not desirable, especially if planted in quantity, as they produce too sombre an effect. Those of a light and graceful outline have greater attractions, says a writer in The Garden, while some of those of a fastigiate or columnar habit may be introduced successfully. Trees of free, pendulous habit are popular for the work and have much to commend them; but weeping trees of more or less formal outline, such as some of the ashes, grown in umbrella fashion are not appropriate. The reflection of suitable trees in the water is part of their value, weeping and fastigiate trees being very effective, while the foliage possesses the advantage of having bright golden bark. It is known as Ramulis Aureis. Another good variety of the Babylonian willow is Salamoni, while the pendulous variety of S. purpurea is of particularly elegant appearance. S. elegantissima is also a pendulous willow, while S. fragilis and its bright-barked variety Basfordiana may also be planted. The forms of S. alba vitellina, with red and yellow bark, make delightful pictures, the color being most brilliant when they are cut over annually. A variety with red stems known as britzensis is also ornamental.

The various alders are useful subjects, the golden-leaved form of Alnus glutinosa being effective, while the cut-leaved varieties of the same species, known respectively as Imperialis, Incisa and Laciniata, are pretty. A. incana bears fine foliage and large fruits, while the variety Ramulis Coccineus is conspicuous by reason of its red stems. A pretty Japanese species is known as A. firma. It is uncommon and worth planting extensively for ornamental work. The various poplars may also be used. The fastigiate varieties, such as the common Lombardy poplar and Populus alba pyramidalis are useful to form groups in the vicinity of water, where they stand straight and sentinel-like among other trees and produce a similar reflection in the water. The common and American aspen each give us pendulous varieties. They form ornamental trees and are very curious in spring when covered with their long, pendulous catkins. Populus alba and its variety nivea and P.

WATERSIDE PLANTING IN BROOKLYN, N. Y.

colored bark of various subjects makes them very desirable.

Should the margins be of a marshy nature, the various willows, alders and poplars will be quite at home. The most popular willow of all is Salix Babylonica (the common weeping willow). Its light and graceful branches hang in streamers many feet in length, and are clothed with the daintiest of green leaves. An uncommon variety of equal merit regarding habit and canescens are remarkable for their silvery leaves, while P. deltoidea aurea has golden foliage. The pterocaryas may be planted in damp ground, where they will grow rapidly and form fine foliage. The deciduous cypress (Taxodium distichum) is of stiff, fastigiate habit while young, and is effective either during summer while the leaves are green, or throughout autumn when the foliage is a rich brown. For the banks of lakes or streams, where the

stems will not be continually wet, but where roots can get to the water, lots of trees will thrive, and such things as red and white thorns, double-flowered cherries, Pyrus floribunda, P. spectabilis, Catalpa bignonioides and its golden variety and the various robinias may be planted. Should high ground occur in the vicinity of water, a well placed group of silver birches may be introduced with success, the reflection of the white trunks in the water being very pretty.

Shrubs of various kinds may be planted about the margins of lakes or streams, such as diervillas—better known, perhaps, as weigelas—double-flowered gorse, rambling roses, double-flowered blackberries, golden-leaved elders, the silver-leaved form of Salix repens, Berberis stenophylla, Rhododendron ponticum, tamarix in variety—particularly T. Chinensis, which is of very graceful outline, and T. pentandra, which is remarkable for its profusion of pretty rose-colored flowers in summer, Spiræa Aitchisonii and hosts of other plants. Although the selection is somewhat limited where the ground is naturally wet, there is practically no limit of material for those situations where the plant can be placed well out of the water but so that the roots can grow through the bank and into the water. For sheltered positions bamboos may be introduced, the graceful, wand-like branches being charming when at their best. They must not, however, be planted indiscriminately.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
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ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees,
Write for descriptions and prices.
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Morrisville, Pa.

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Storrs & Harrison Co.

PAINESVILLE NURSERIES.
CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....
PAINESVILLE, OHIO.

American Everblooming Hydrangeas

Strong, field-grown plants. 15 inches and up, $2.50 per doz., $15.00 per 100: the same, 10 to 14 inches. $1.50 per doz., $10 00 per 100.

Berberis Thunbergii, transplanted, 8 to 12 inches, $2.50 per 100; $20.00 per 1000: B Thunbergii Seedlings 5 to 7 inches. $1.50 per 100. $12.00 per 100. **California** and **Japanese Privet,** 1½ to 3 ft. cheap.

THE E. Y. TEAS CO., Centerville, Ind.

HARDY PERENNIALS

	Field Per 100	3-inch 100	Seedl. or tr. 100
Aquilegia (Columbine)	$6 00	$4 00	$1 50
Anemone (Windflower)	6 00	5 00	1 50
Asclepias, Tuberosa and Hallie	6 00	5 00	3 00
Bocconia Japonica	6 00	4 00	
Campanula (Bellflower)	6 00	4 00	1 50
Coreopsis Lanceolata	5 00	4 00	1 50
Delphinium (Larkspur)	8 00	5 00	2 00
Dielytra Spectabilis (Bleeding Heart) and Formosa	6 00		
Digitalis (Foxglove)	6 00	4 00	2 00
Echinops (Globe Thistle)	5 00		
Funkias, mixed	6 00		
Gaillardia Grandiflora	5 00	4 00	1 50
Grasses, American Pampas	6 00		
Gypsophila	6 00	5 00	2 00
Physostegia	5 00	3 00	
Pinks, Hardy Garden	5 00	3 00	2 00
Potentilla	6 00	5 00	2 00
Rudbeckia	6 00	4 00	1 50
Shasta Daisies	6 00	4 00	
Statice	6 00	5 00	
Stokesia	6 00	4 00	1 50
Thalictrum	6 00		
Veronica Spicata	6 00		1 50

	Field Per 100	3-inch 100	Seedl. or tr. 100
Violets, Hardy	$5 00		$2 00
Helianthus	6 00	$5 00	
Heliopsis	5 00	4 00	
Iris, German	5 00		
" Japanese	8 00		
Lathyrus	8 00		
Linum	6 00	5 00	
Lobelia	6 00	4 00	2 00
Lychnis	6 00	5 00	2 00
Menthe Peperita	4 00	3 00	1 50
Monarda Didyma	5 00	4 00	1 50
Myosotis.		3 00	1 50
Poppies, Oriental	6 00	4 00	2 00
Pentstemon	6 00	4 00	1 50
Phlox	5 00	2 50	2 00
" 3-year	10 00		
Platycodon	6 00	4 00	
Pyrethrum	8 00	6 00	
Salvia	6 00	4 00	1 50
Solidago Canadensis	5 00		
Sweet William	5 00	3 00	1 50
Vinca Minor		2 50	
Yucca Filamentosa	6 00		
" 3-year	10 00		

The Mosbaek Greenhouse Company, Onarga, Ill.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2 ft	$1 50	$2 75	3½ ft	$3 00	$ 5 50
2½ ft	2 00	3 75	4 ft	4 00	7 00
3 ft	2 50	4 50	5 ft	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$8 00	18-22 in.	30-32 in	$5 50	$10 00
				22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c. per doz., $4 00
18 to 24 in high.....Each, 60c. per doz., $6 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Ficus Elastica** 21-inch pots, $15.00 per 100.

CLEMATIS, and all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

Dwarf Box Edging We offer fine home-grown plants in quanity, at the following prices: 3 to 4-in., bushy $3.00 per 100; $20.00 per 1000. 4 to 5-in., bushy, $4.00 per 100; $30.00 per 1000. 5 to 6-in., bushy, $6.00 per 100; $50.00 per 1000.

Euonymus Radicans Strong, 2 years.....$6.00 per 100
Extra strong, 3 years..... 8.00 per 100

THE SHREWSBURY NURSERIES, Geo. A. Steele, Prop., EATONTOWN, N. .

IF YOU SAW IT IN
THE FLORIST
SAY SO IN YOUR NEXT ORDER.

OUR PASTIMES.

At New York.

BOWLING MAY 3.

Irwin	167	167	186	
Scott	128	142	142	
Berry	136	137	131	
Faulkner	123	136	117	

At Washington.

In a tournament match game Shaffer and McLennon carried off the honors of the evening. Scores were as follows:

Shaffer	180	181	215	203	141—	920
McLennon	231	165	182	216	225—	1019
Totals	411	346	397	419	366	1939
Knox	177	168	198	172	144—	859
Thomas	204	186	195	183	197—	965
Totals	381	354	393	355	341—	1824

G. S.

At Chicago.

Bowling, May 7.

J. Byers	118	153	131
R. Farley	115	118	123
G. Pieser	119	107	106
A. Zech	179	200	118
R. Winterson		160	210
	531	738	688
H. Kruchten	88	180	189
F. Kraus	117	142	113
J. Zech	220	156	153
F. Pasternich	157	156	144
Sweeney		134	144
	582	768	743
G. Asmus	127	190	168
O. Goerisch	80	125	118
J. Michelsen	137	126	149
W. Wolf	186	211	160
J. Canger	92	80	79
	622	732	674
F. Ayers	147	138	170
J. Kruchten	126	107	164
C. Zimmer	112	115	118
T. Vogel	101	90	75
W. Graff	157	150	151
	643	600	678

Prize Handicap Bowling.

W. Wolf—First.
F. Ayers—Second.
F. Kraus—Third.

At Buffalo.

FLORISTS' CLUB SPORTS.

The Florists' Club had its regular meeting which was well attended and business of importance transacted. The large attendance was due to the fact that the notices said an entertainment would be furnished by the committee; well, it was. It started with a blindfold boxing match between Messrs. Hubar & Schorn which was good and resulted in a draw. The next event was a show in itself. Count Siegfried, the German lion and Silver Stuntz, two pinweights, endeavored to wrestle C. Baumbgartner, the Hebrew giant, the two to throw the Hebrew, and as they had their training in Palmer's basement, it is unnecessary to say that they won in about 10 minutes. Bob Scott was referee. The third event was a wrestling match between Wesley Miller and E. Bauers. Miller had two falls to his credit in four minutes 30 seconds. Wm. Mack was referee. Event No. 4 was a boxing match between Curley Supples, middleweight champion of Erie county and his sparring partner, Wm. Mack. The decision from Referee Slattery was in favor of Supples and had the referee had a striped short on the decision would have been different.

Event No. 5 was the boys' time and consisted of a pie-eating contest, real blackberry pies being used. The contestants having their hands tied, and again Palmer boys were in the ascendancy. Stuntz licked the plate clean. Scotts Cisco left a piece on the side and Count Siegfried was slow in getting it all off the table, so the prizes were awarded as above. Bob Scott judged and tried the pies. The entertainment was favored by several musical selections from Thomas Tobin, accompanied by A. Fisher on the piano. Albert Keitsch also gave some piano selections. The evening ended with a progressive pedro party, where ex-President Sandiford got first, Thomas Tobin second, Charles Hewson third and London Sewell got the prize never sought after but always won by someone—the booby. He had to work hard and beat Ed. Walters by two points. It was a very enjoyable evening and all went home pleased with the committee's efforts.

BISON.

PRINCETON, IND.—Paul E. Salzman lost about 2,500 square feet of glass from hail during the storm of April 29.

ROSES

	Per 100	Per 1000
Beauties, 4-in., extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2½-in.	5 00	45 00
" " 3½-in.	6 50	55 00
Cardinal, 2½-in.	6 00	
Bride, Maid, Potter Palmer, Kaiserin, 2½-in.	5 00	45 00
" 3½-in.	6 50	55 00

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now, R. C...$2 50 per 100; $20 00 per 1000
2½-in.... 3 00 per 100; 25 00 per 1000

No more Virginia Poehlmann R. C. or 2½-in. until June 15.
For other varieties of 'Mums see classified adv.

SPRENGERI, strong, 3-in...$4 00 per 100: $35 00 per 1000
SMILAX, 3-in.. 4 00 per 100; 35 00 per 1000

Carnations Sarah Hill, 2½-in.....$3 00 per 100
Lloyd, 2½-in..... 2 50 per 100

Above is all choice stock, guaranteed to please.
2 per cent off for cash. Terms: 30 days net.
Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond Rose pots, $15.00 per 100; 3½ in. pots, $18.00 per 100. Brides Bridesmaids Golden Gates Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio.

Surplus Stock

From 2½-inch pots.
Clean, thrifty stock.

	Per 100	1000
ROSES, mostly summer propagated: Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay Minnehaha, Philadelphia, White and Yellow Rambler	$3 00	$27 50
Anny Muller	3 50	30 00
Baby Rambler	2 75	25 00
White Baby Rambler	3 00	27 50
Clothilde Soupert	3 00	27 50
Asparagus Plumosus Nanus	3 00	25 00
Asparagus Sprengeri	3 00	25 00
Hibiscus "Peachblow"	3 00	25 00
Jerusalem Cherry	3 00	25 00
Lemon Ponderosa	3 00	25 00
Palm Areca Lutescens	4 00	35 00

Jackson & Perkins Co.
Newark, New York.

Always mention The American Florist when you order stock.

Rose Plants

Fine Strong, Healthy.

	2¼-in. Pots 100	2¼-in. Pots 1000	3-in. Pots 100	3-in. Pots 1000
American Beauty	$5.50	$50.00	$7.00	$65.00
Richmond	3.00	25.00	4.00	35.00
Chatenay	3.00	25.00	4.00	35.00
Ivory	3.00	25.00	4.00	35.00
Bride and Maid	3.50	30.00	4.50	40.00
Asparagus Sprengeri, 4-in. pots			$8.00 per 100	
Asparagus Plumosus, 3-in. pots			5.00 per 100	
Smilax, 3-in. pots			4.00 per 100	

Orders should be placed at once. Stock can be shipped now or when you are ready to plant. Extra fine. Samples cheerfully furnished.

UNITED STATES CUT FLOWER CO., Elmira, N. Y.

Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c. **Stevia,** Green or Variegata. **Vinca Var.,** strong, 2-in 2c. **Dusty Miller,** 2-in. 1½c. **Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew** (Gem). 2-in., 2c. **ROOTED CUTTINGS,** Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white, yellow: **Swainsona,** alba, $1 00: **Dbl. Petunia,** 10 kinds, $1.00: **Heliotrope,** $1.00: **Vinca Var.,** 90c, $8 00 per 1000: **Alternanthera,** 3 kinds 50c: **Ageratum, Coleus,** 60c., $5 00 per 1000: **Artillery Plant, Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Rose List in Rose Pots.

	2½-in.	3-in.		2½-in.	3-in.
Am. Beauty	$6 00	$8 00	Golden Gate	$3 00	$5 00
Kaiserin	4 50	6 00	Uncle John	3 00	5 00
Bride	3 00	5 00	Wooton	3 50	6 00
Ivory	3 00	5 50	Richmond	3 50	5 00
Chatenay	3 50	5 00	Perle	3 50	5 00
Bridesmaid	3 00	5 00	La France	4 50	6 00

Our Rose stock is better than ever. Perfectly healthy. Samples submitted.

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

Cleveland.

Business the past week has been exceptionally good, all stock cleaning up nicely at prices slightly in advance of those of the previous week. Carnations especially have sold up clean every day, and local wholesalers could only keep up with the demand by calling upon growers to pick everything. Mother's day, May 9, was celebrated by the public generally, as was evidenced by the call for white carnations which sold up clean. Roses of all kinds sold better than in previous weeks, although prices were about the same. Orchids find a ready sale, and the quality was never better in the shipped in Eastern stock. Smilax is again plentiful and the quality good. Last week several growers announced that their crop of peonies, would be in early, but the weather for the past two days has been cold and wet, which will greatly retard their progress. Lily of the valley and daffodils have not been much in demand. Pansies, daisies, calendula, snapdragon and lupins are all good, and sell quickly.

Miss Symes, formerly with The Jas. Eadie Co., and Milford Parks, takes Miss Wood's place at Ditto's Citizens' building. Miss Wood goes to Cincinnati.

Visitors: F. Farney, of M. Rice & Co., Philadelphia, Pa.; A. Miller, Vaughan's Seed Store, Chicago; Miss Martin, Canton. C. F. B.

Vaughan's Special Offer Dormant Roses

Extra good strong stock,	Per doz.	Per 100.
Debutante, 2-yr	$1 50	$12 00
Taunusblumchen	1 50	12 00
Gruss an Zabern	1 50	12 00
Sweetheart,	1 50	12 00
Hiawatha,	2 00	15 00
Baby Rambler, 1st size, 2-yr	3 00	20 00
" " 2nd size	2 50	16 00
" " 3rd size	1 50	10 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

P. O. Drawer V, CHICAGO

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

White Perfection. Our stock won the Cottage Gardens $100 00 Cup at the National Flower Show. Our stock is the best.

$3.00 per 100; $25.00 per 1000 from sand.

White Enchantress. We have the best stock of the pure white $3.00 per 100; $25.00 per 1000.

Orders booked now for field-grown plants. Early delivery.

CHICAGO CARNATION CO., A. T. Pyfer, Mgr., **JOLIET, ILL.**

MARY TOLMAN

A new light salmon pink carnation for 1910.

$12.00 per 100. $100 00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. **HUNT BROS., Park Ridge, Ill.**

SANGAMO

New, brilliant, glistening pink carnation for 1910.

$12.00 per 100. $100 00 per 1000.

A. C. BROWN, Springfield, Ill.

CHICAGO CARNATION CO. Joliet, Ill.

A New Seedling Carnation :: :: :: **Conquest**

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** Office and Store: 76 Wabash Ave., CHICAGO

Pansies

50,000. The best Market Strain in New England.

Fall transplanted; in bud and bloom. $1.25 per 100; $10.00 per 1000.

Cash with order.

CHARLES POTTER,
West Boylston, Mass.

New Carnation **Lucille**

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

COLEUS In 10 Very Best Varieties.

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones, **$2 00 per 100; R.C., 75c per 100, 6.00 per 1000.**

CANNA, Pennsylvania, started, strong plants. $2.00 per 100; $18 00 per 1000.

WALTER W. COLES, Kokomo, Ind.

FOR SALE.

Stevia out of 2-in., variegated.....	2.00 per 100
Dracena Indivisa out of 2-in	2.00 per 100
Clematis Paniculata, out of 3-inch very strong	5.00 per 100
Clematis Paniculata, out of 2-inch extra strong.....	2.00 per 100

Cash with order.

SAMUEL V. SMITH, 3323 Goodman Street, Philadelphia, Pa

CARNATIONS

Rooted Cuttings

	Per 100	1000
Mrs. J. C. Vaughan,.....	$12 00	$100 00
O. P. Bassett, ... per 500 .....$35 00	8 00	60 00
Mrs. Chas. Knopf,.....	12 00	100 00
Ruby,.....	12 00	100 00
Afterglow,.....	5 00	45 00
Rose Pink Enchantress	3 00	25 00
Sarah Hill,.....	5 00	45 00
Winona, ...	5 00	45 00
White Enchantress,.....	4 00	35 00

All Plants F. O. B. Western Springs, Ill. **Vaughan's Seed Store,**

84-86 Randolph Street, CHICAGO. 25 Barclay Street, NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS, SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor..	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter; compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

OUR NEW CARNATION **SHASTA**

Is always pure white, is always in bloom and is always high grade.

$12.00 per 100; $100.00 per 1000. Send orders **now** to

PATTEN & CO., Tewksbury, Mass. **BAUR & SMITH,** Indianapolis, Ind.

Miscellaneous Spring Bedding Stock.

Cannas, Moss-rooted, 6 to 12 in high Allemania, Kate Gray, Chas. Henderson, Burbank, Washington	$5 00 per 100
Geraniums strong, 4-in	7 00 per 100
Vinca Variegated, 3 to 4-in.....$5 00-10	00 per 100
Alyssum Little Gem, 2½ in....	2 50 per 100
Ageratum Dwarf Blue, 2½ to 3	2 50- 3 00 per 100
Cobeas, 3-in.....	5 00 per 100
Coleus, 2¼ to 3-in.	2 00- 3 00 per 100
Dracæna Ind., 3-in	5 00 per 100
Dusty Miller, 2¼-in.....	2 00 per 100
Verbenas 2 to 2½-in	2 00 3 00 per 100
Salvia, 3-var., 2½ to 3-in	2 50-3 00 per 100

WEST END GREENHOUSES, Lincoln, Ill.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.

2½-in..... ....$5.00 per 100; $45 00 per 1000

CYCLAMEN.

3-in.....$7.00 per 100 4-in.....$15 00 per 100
5-in.....$25 00 per 100

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

Always mention The American Florist when you order stock. : : :

NAPPANEE, IND.—C. A. Doswell contemplates building a large greenhouse at this place.

WORCESTER, MASS.—Business continues good since Easter, consisting chiefly of funeral work. The week ending April 24 Lange had the Jefferies wedding, Brown card party and board of trade banquet, each of which called for a large number of cut flowers.—R.

OMAHA, NEB.—In the recent damage to the greenhouses here by hail, as already described in THE FLORIST, it is computed that the value of the glass alone was well over $10,000.

THE BELFAST CHRYSANTHEMUM

The Queen of Winter.

The most profitable 'mum in sight for Christmas and later. Easily sells for one third more than Nonin or any other variety. Size, color and keeping qualities is what does it. Can be had all through the winter by propagating and planting late. They are fine to follow early 'mums; of the very **largest size.** Color, light-pink to cream-white. Perfectly healthy and easy to grow. A seedling of W. H. Chadwick and Western King.

Extra large cuttings from soil or sand **$2.50 per Doz; $18.00 per 100.** Prepaid.

WILLIS E. HAMILTON, Belfast, Me.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$7 00	$65 00
Maids, grafted	3 50	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Maids	$3 00	$25 00
Brides	3 00	25 00
Poinsettias 2½-in.	4 00	35 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Leedle Roses

See column ad. and prices page 721, May 1.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

ROSES

A SPECIALTY.

The Dingee & Conard Co.,

WEST GROVE, PA.

ROSES

OWN ROOT

My Maryland, Rhea Reid and Jardine,

3-inch $12.00 per 100; $100.00 per 1000.

Richmond, Ivory and Chatenay

2½-inch $3.00 per 100; $25.00 per 1000.
3 -inch 6.00 per 100; 50.00 per 1000.

CHARLES H. TOTTY,

Madison, New Jersey.

MY MARYLAND

The Greatest Producing Rose in Commerce Today

Selected plants of the highest quality, ready to ship.
Grafted, $20.00 per 100; $150.00 per 1000. Own root, $10.00 per 100; $90.00 per 1000.

You will kindly remember that we have

Waban Strain White Killarney

that will please you. Grafted, $35.00 per 100; $300.00 per 1000.

A. N. PIERSON, Inc., Cromwell, Conn.

CANNAS

	Per 100
10 varieties, 3-in. pots, April 25	4 00
Alternantheras, red and yellow	2 00
Coleus, 10 varieties	2 00
Verbenas, April 25	2 00
Vinca Var., 2¼-in. pots	2 50

GERANIUMS

	Per 100
8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in. pots	4 00
Double Petunias	3 00
Asp. Sprengeri, April 25	2 00

Asparagus Plumosus Seed, new crop $2 00 per 1000

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

COMMERCIAL CHRYSANTHEMUMS...

For varieties and prices see page 667 of AMERICAN FLORIST for April 24.
Also full quota of other kinds suitable for any purpose.

ELMER D. SMITH & CO., Adrian, Mich.

50,000 PANSIES. 50,000

JENNINGS' STRAIN.

Large flowering, fancy colors extra fine stock, all transplanted. Per 100
First size, in bloom and bud $1.25
Second size, in bloom and bud 1.00
Small plants, by mail 75c per 100 **Seed,** $1.00 per pkg. of 4000; $4.00 per oz. Cash with order.

E. B. JENNINGS, Lock Box 254. **SOUTHPORT, CONN.**

Grower of the Finest Pansies.

2½-inch Stock Chrysanthemums Ready

Golden Glow, Pacific Supreme, White Cloud, Lynnwood Hall $5.00 per 100; Golden Eagle, $10 00 per 100; Virginia Poehlmann, Alice Roosevelt, $4.00 per 100, $35.00 per 1000; October Frost, Appleton, White Bonnaffon, Touset, and run of commercial sorts, $3.00 per 100, $25.00 per 1000.

Cash, please.

I. M. RAYNER, Greenport, L. I., N. Y.

Geraniums..

Best Varieties,

2½-in., ready for 4-in., $2 00 per 100; 300 for $5.00
Ivy Geraniums and Salleroi, 2½-in., same price.

Cabbage Plants, all kinds $1.00 per 1000
$8.00 for 10,000.

Tomatoes, best varieties $1.50 per 1000
Cauliflower, Snowball 2.50 per 1000
Egg Plants and **Peppers** 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

10,000 Geraniums

Mme Salleroi, Red, White, Salmon, Pink, 2½, 3 and 4 in.

1000 Amerpohli
1000 Whitmani **FERNS**

Special, $7.50 per 100.

Ask for anything you need in **Soft Wooded Plants.**

GEO. A. KUHL, Wholesale Grower, **Pekin, Ill.**

GERANIUMS

4-inch pot plants of Castellane, Viaud Perkins and Buchner, old plants, at $4.00 per 100. Send for sample.
Rooted cuttings of Castellane, Viaud, Buchner Ricard and Nutt, at $1.00 per 100.

Asparagus

Plumosus, ready now..... $25 00 per 1000
Sprengeri, ready June 1st... 15 00 per 1000

Smilax Ready June 1st, at $15.00 per 1000.

Hardy Phlox

Rooted cuttings of a Salmon Pink, very large flowered variety and one of the best, in any quantity, at 75c per 100 or $5.00 per 1000. A small lot in assortment, all good varieties, at $1.00 per 100.

Samples of any stock for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

Geraniums

	Per 100
4-inch stock, 15,000 plants, cool grown, 6 standard varieties, without pots	6.0
Mme. Salleroi, 2-in., $1.50 per 100; $12 50 per 1000	
" 2½-in. 2.00 per 100; 18 00 per 1000	
Rose Geraniums, fine 4-in.	$7.00 per 100

BEDDING AND OTHER STOCK.

English Ivy, 4½-in., 3 to 4 ft. long, fine stock.	15c each
Vincas, variegated, extra large, 3-in.	$3.00 per 100
Grave Myrtle, 2½-in., 2½c.	
Petunias, double, mixed varieties, 2c.	
Fuchsias, 2-in.	$3.00 per 100
Swainsona, extra large flower, pure white, 2½-in.	2.00 per 100
Coleus, R. C., 8 varieties	.75 per 100
Stevia, 2 in.	2.00 per 100

N. C. MOORE & CO., Morton Grove, Ill.

Good Stock GERANIUMS

In bud and bloom that have been topped.

S. A. Nutt, Heteranthe, Poitevine, Mme. Landry, Mme. Barney, Jean Viaud, 3½-inch, $6.00 per 100; $55.00 per 1000.

The Parker Greenhouses, Norwalk, Ohio

Providence.

TRADE GOOD.

Stock of roses and carnations has shortened the past week and both advanced considerably, roses going up one and two cents and carnations one cent higher than last week. Business was good, but the shortage was owing to an off-crop condition. Flowers reached a lower level of wholesale price earlier than usual this year probably owing to good weather conditions and the subsequent large cut. Maidenhair fern is scarce for the present, as is smilax and Asparagus plumosus. The Rhode Island greenhouses are selling off rapidly the stock of cut greens and ought to be cleaned up by the week-end. Mothers' day last Sunday caused an increased call for white carnations for boutonnieres; this day gives indication of becoming an important flower festival. Ferns for bouquets will be shy as usual for Memorial day, and the retailers will have to hustle to obtain a supply; $2 per 1,000 is the quotation. Marguerites and sweet peas are finding a ready sale, and are filling the demand that the violet held in the winter.

Fred Greene has left the Aldrich estate and assumed the care of the city parks. Mr. Greene's work at Warwick is a lasting monument to his sense of detail and order, and he leaves the senator's grounds in splendid condition. With proper care they are destined to become the show place of Narragansett bay. M. M.

Geraniums, Dahlias and Bedding Plants

We have one of the most complete collections of Geraniums in the country, containing every color and type found in the Geraniums, at $2.00 and $3.00 per 100. Every one of our 70 Standard Varieties are bread and butter winners, and among our 34 New Varieties of Special Merit are some that are going to fix the standard in the future. Every one is a gem, not high in price, only $4.00 and $6.00 per 100.

Our Novelties should, coming as they do from the leading introducers of the world, represent the highest development of Geraniums at the present time. A collection of 100 varieties, our selection of 1907 and 1908 Novelties, will be sent for $10.00.

Special offer of 1000 good strong plants, from 2-inch pots, our selection of 20 distinct varieties from among our Standard and Newer Varieties for $15.00, cash. From 3-inch pots, $3.00 per 100; $25.00 per 1000.

Cannas Strong plants from 3-inch pots, J. D. Eisele, Egandale, Alphonse Bouvier, Mme. Crozy and Florence Vaughan, $4 00 per 100; Jean Tissett, President Meyers, Louisiana, Pennsylvania, $5.00 per 100.

Dahlias We have one of the finest collections in the country of good distinct commercial varieties, at $2.00 per 100 and up for plants ready for shipment. Then we have Jack Rose, Virginia Maule, Big Chief, Rose Pink Century, Fringed Twentieth Century, Rebecca Mayhew etc., at 50c each; $5.00 per doz.; $35.00 per 100. We will send 1000 in 20 good distinct cut flower sorts, our selection, for $18 50.

See issue of April 24th or our wholesale catalogue for complete list of bedding plants.

——Cash with order.——

R. Vincent, Jr., & Sons Co., White Marsh, Md.

Splendid Plants. # ORCHIDS Guaranteed Type.

JUST ARRIVED.

Direct from Native Mountains to Grower.

Dendrobiums **Wardianum, Nobile** and **Thyrsiflorum.** Flowers December to April. $1.50 and upward each.

Cattleyas **Mendelii, Mossiae, Speciosissima, Gigas, Gigas Sanderiana, Chrysotoxa** or **Aurea.**

All fresh collected. Send for price lists.

G. L. FREEMAN, 388 Appleton St., Holyoke, Mass.

Pelargoniums..

Rooted Cuttings, 15 varieties, $2.50 per 100. **Coleus,** 70c per 100, $6.00 per 1000.

Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100; $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5.00 per 1000. All rooted cuttings.

Express prepaid on rooted cuttings. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

We are booking order now for delivery early in the Spring on all commercial **CATTLEYAS** and **NOVELTIES.** Our prices are right and our guarantee perfect.

We sell only first-class goods.

CARRILLO & BALDWIN, Secaucus, N. J.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

Alternantheras

Strong, well rooted cuttings—the kind that will please you.

	Per 100	1000
P. Major (red)	50c	$4.00
A. Nana (yellow)	50c	4.00

J. W. DAVIS,

225 W. 16th St., DAVENPORT, IOWA.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.

Formerly Garfield Park Flower Co.

250,000 Superb Strain

Pansies...

Fall transplanted Pansies in bud and bloom. A trial order will convince you that our Superb Strain is the best you have ever handled. $1.25 per 100; $10.00 per 1000. Cash with order

LEONARD COUSINS, JR., Concord Junction, Mass.

BAY TREES

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS. Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

Miscellaneous Plants

Cannas, King Humbert, 3-in. pots. $5.00 per 100.
Carnations, R. C., from soil. $2.00 per 100—Pink: Dorothy: Scarlet—Elbon.
Chrysanthemums, the best three early varieties: White Cloud Pacific Supreme, Golden Glow, 2½-in. pots. $3.00 per 100.
Clematis Paniculata, 3-in. pots. $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2.00 per doz.
Geraniums, best commercial varieties, 3-in. pots, $4.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
Vinca Variegata 2½-in. pots. $3.00 per 100.
Lobelia, Double blue, 2½-in. pots $3.00 per 100.
Moonvine, The true large flowering white, 2½-in. $3.00 per 100.
Funkia Variegata $4.00 per 100.
Cobea Scandens. 3-in. pots. $4.00 per 100
Hydrangea Otaksa, 2½-in. pots $3.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground. $1.00 per doz.
Lemon Verbenas, 3-in. pots. $5 00 per 100; 4-in. pots. $1.00 per doz.

Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias. 4 varieties; Phlox, Drummondi. dwarf; Lobelia, Emperor William; Salvia Bonfire and Zurich; Verbenas: Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadricolor; Golden Feather. Cupheas. Snapdragon, White Lantanas.

SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

ARAUCARIAS

EXCELSA
Fine Stock

5-in, 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls,, 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in. high, each, **$1.25** doz. **$14.00.**

VAUGHAN'S SEED STORE,
All Plants F. O. B. Western Springs, Ill.
84-86 Randolph St., **CHICAGO.**
25 Barclay St., NEW YORK.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-ih pots, $2 50; 3-in., $5.00 per 100; Mme. Salleroi. 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5 00 per 100.
Vinca Var., 2-in., $2.00 per 100, 3-in., $5.00 per 100.
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English ivy, 2-in., R. C., 75c. J. H. Dann & Sons, Westfield, N. Y.

Ivy, German, 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Ivy, hardy English, 3-in., $5 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

Ivy, parlor, R. C., 75c. Byer Bros., Chambersburg, Pa.

LANTANAS.

Lantanas, weeping lantanas, finest plant for vases and baskets, $1.50 per 100; $12.50 per 1,000. The Good & Reese Co., Springfield, O.

LILACS.

Lilacs. Jacs Smits, Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Jacs Smits, Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the valley, cold storage pips, $1.75 per 100; $15 per 1,000. H. N. Bruns, 1407 W. Madison St., Chicago.

LOBELIA.

Lobelia compacta and speciosa, 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Lobelia, dbl. blue, 2½-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

Lobelia, comp. and trailing, 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Phila.

MOONVINES.

Moonvines, Ipomea maximus, flowers much larger than the old kind, try it and you will use no other, $3 per 100; $25 per 1,000. Ipomea Grandiflora, the old white flowering and Learii blue flowers, $2.25 per 100; $20 per 1,000. The Good & Reese Co., Springfield, O.

Moonvines (Ipomoea grandiflora), extra strong, grown from seed, 3-in., $5.00 per 100, 2½ in., $3.50. Edwin Bishop, Roslyn, Md.

Moonvine, 2½-in., $3 per 100; 3-in., $4 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Sphagnum. Both quality and quantity, bag or barrel, $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

Sphagnum moss. Brookville Moss and Peat Co., Brookville, N. J.

MUSHROOM SPAWN.

Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., N. Y.

Mushroom spawn. Lambert's Pure Culture American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, roses, rhododendrons, hydrangeas, conifers, herbaceous and bulbous stock. W. Elliott & Sons, 45 Vesey, N. Y.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Berberis Thunbergii, seedlings, 5 to 7 ins., $1.50 per 100; $12 per 1,000; transplanted, 8 to 12 ins., $2.50 per 100; $20 per 1,000. E. Y. Teas Co., Centerville, Ind.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock. Storrs & Harrison, Painesville, O.

Nursery stock, fruit and shade trees, shrubs, evergreens. W. & T. Smith Co., Geneva, N. Y.

ORCHIDS.

Orchids, just unpacked, Oncidium varicosum Rogersii, O. splendidum, O. crispum, O. Forbesii, O. sarcodes, O. Wentworthianum, O. grande, Miltonia candida, M. spectabilis, M. flavescens, Lycaste Skinneri, Scuticaria Steelii, Zygopetalum, crinitum, Z. Gautieri, Cattleya Warnerii Phalænopsis amabilis, P. Schilleriana, Vanda Sanderiana. To arrive in a few days: Cattleya Trianæ, C. labiata, Odontoglossum crispum, Dendrobium formosum, D. nobile, D. thyrsiflorum, Vanda cœrulla, Cattleya Percivaliana. Lager & Hurrell, Summit, N. J.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

Orchids, Cattleya Mendelii, Mossiæ, Speciosissima, Gigas, G. Sanderiana, Chrysotoxa, G. L. Freeman, 388 Appleton, Holyoke, Mass.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

PALMS.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

PANSIES.

Pansies, transp., 1st size in bloom, $1.25 per 100; 2nd size, $1 per 100. Small plants by mail, 75 per 100. Seed, $1 per pkg. 4,000 seeds, $4 per oz. E. B. Jennings, Box 254, Southport, Conn.

Giant pansy plants, stocky, from fall sown seed, 50c per 100, prepaid; 1,000; not prepaid, $3.50. Chas. Frost, Kenilworth, N. J.

Pansies, transp., bud and bloom, $1.25 per 100; $10 per 1,000. Leonard Cousins, Jr., Concord Junction, Mass.

Pansies, transp., $1.25 per 100; $10 per 1,000. Chas. Potter, West Boylston, Mass.

PANDANUS.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PELARGONIUMS.

Pelargoniums. R. C., 15 vars., $2.50 per 100. S. D. Brant, Clay Center, Kans.

PENTSTEMONS.

Pentstemons, trade packets of Wells gigantic flowered strain, 25c and $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies. Van Zanten Bros., Hillegom, Holland.

PETUNIAS.

Petunias, double, 4-in., $7 per 100; California Giant, 3-in., $4; Inimitable, 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Petunias, dbl., 10 kinds, 2-in., 2c; R. C., $1. Byer Bros., Chambersburg, Pa.

Petunias, dbl., mixed, 2c. N. C. Moore & Co., Morton Grove, Ill.

Petunias, dbl., R. C., $1.25 per 100; $10 per 1,000. S. D. Brant, Clay Center, Kans.

Petunias, dbl., $3 per 100. Jos. H. Cunningham, Delaware, O.

PRIMULAS.

Primroses, Chinese primrose for shifting on best colors, $2 per 100; $18 per 1,000. The Good & Reese Co., Springfield, O.

PRIVET.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

PRIVET. Ten thousand each for transplanting, California and Amoor River at $6 and $9 per 1,000; 2,000, 24 to 30, Amoor River, at $16 per 1,000. To close. Cash with order. Valdesian Nurseries, Bostic Dept., Bostic, N. C.

RHODODENDRONS.

FOR SALE—500 Rhododendron Catawbiense, this season's importation, 2½ ft. high, full of buds, $12 per doz.; $80 per 100. Wagner Park Conservatories, Sidney, Ohio.

Rhododendrons. W. & T. Smith Co., Geneva, N. Y.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROSES.

ROSE PLANTS.
2½-Inch Stock.

	Per 100.	Per 1,000.
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
K. Moulton	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Killarney	5.00	45.00
Kaiserin	4.00	35.00

WIETOR BROS.,
51 Wabash Avenue, Chicago, Ill.

Roses, clean, healthy stock on own roots; 3-in. of the following per 100: White La France, White Cochet, Burbank, Marie Lambert, $4. Helen Gould, Gladys Harkness, Anna Muller, Aurora, Mme. Schwaller, Gen. MacArthur, Lady Battersea, $6. Franz Deegan, Cardinal, $7. Etoile de France, Mrs. David McKee, $9. 4-in. of the following per 100: Golden Gate, White La France, Anna Marie Henrietta, $7. Gruss an Teplitz, Aurora, Safrano, Vis. Folkstone, Helen Gould, Lady Battersea, $8. Killarney, Wellesley, $12. Wagner Park Conservatories, Sidney, Ohio.

Roses, 3-in., Am. Beauty, $7 per 100; $65 per 1,000; Richmond, Chatenay, Ivory, $4 per 100; $35 per 1,000; Bride and Maid, $4.50 per 100; $40 per 1,000. 2¼-in. pots: Am. Beauty, $5.50 per 100; $50 per 1,000 Richmond, Chatenay, Ivory, $3 per 100; $25 per 1,000. Bride and Maid, $3.50 per 100; $30 per 1,000. United States Cut Flower Co., Elmira, N. Y.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per 100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. Rhea Reid, 2½-in., $5 per 100; $45 per 1,000; 3½-in., $6.50 per 100; $55 per 1,000. Cardinal, 2½-in., $6 per 100. Bride, Maid, Potter Palmer, Kaiserin, 2½-in., $5 per 100; $45 per 1,000; 3½-in., $6.50 per 100; $55 per 1,000. Poehlmann Bros Co., Morton Grove, Ill.

OWN ROOT ROSES, 2½-in. pots.

Bride, Bridesmaid, Richmond, Mrs. Potter Palmer, Chatenay, Rhea Reid, $5 per 100; $40 per 1,000. Strong, clean stock.

S. J. REUTER & SON, INC.,
Westerly, R. I.

Roses, dormant, Debutante, 2-yr.; Tausendschon, Gruss an Zabern, Sweetheart, $1.50 per doz.; $12 per 100. Hiawatha, $2 per doz.; $15 per 100. Baby Rambler, 1st size, 2-yr., $3 per doz.; $20 per 100; 2nd, $2.50 per doz.; $16 per 100; 3rd, $1.50 per doz.; $10 per 100. Vaughan's Seed Store, Chicago and New York.

Roses, strong, clean stock, grafted; Bride, Maid, Killarney and Richmond, $12 per 100. Own roots: Bride, Maid, Killarney, Ivory, Gates and Richmond, $6 per 100; all from 3½-in. pots. Also Dracæna indivisa, pot-grown, plants 5½ ins., $25 per 100. P. R. Quinlan, Syracuse, N. Y.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, on manetti, Bride, Maid, Chatenay, Kaiserin, Killarney, Richmond, Wellesley, $12 per 100; $100 per 1,000. My Maryland, $20 per 100. Rhea Reid, $15 per 100. Jackson & Perkins Co., Newark, N. Y.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses, Am. Beauty, 2½-in., $6 3-in., $8. Kaiserin, 2½-in., $4.50; 3-in., $6. Bride, 2½-in., $3; 3-in., $5. Ivory, 2½-in., $3; 3-in., $5.50. Chatenay, 2½-in., $3.50; 3-in., $5. Bridesmaid, G. Gate, Uncle John, 2½-in., $3; 3-in., $5. Wootton, 2½-in., $3.50; 3-in., $6; Richmond Perle, 2½-in., $3.50; 3-in., $5. La France, 2½-in., $4.50; 3-in., $6. Geo. A. Kuhl, Pekin, Ill.

Roses, My Maryland, grafted, $20 per 100; $150 per 1,000; own roots, $10 per 100; $90 per 1,000. White Killarney, grafted, $35 per 100; $300 per 1,000. A. N. Pierson, Inc., Cromwell, Conn.

Roses, 1-yr. bench, Am. Beauty, $7 per 100; $65 per 1,000. Maid, grafted, $3.50 per 100; $30 per 1,000. From 2½-in.: Maid, Bride, $3 per 100; $25 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Roses, Kaiserin, 2½-in., $27.50 1,000; 3-in., $55 per 1,000; Hermosa, 2¼-in., $25 per 1,000. Crimson Rambler, 2¼-in., $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Roses, own root, My Maryland, Rhea Reid and Jardine, 3-in., $12 per 100; $100 per 1,000. Richmond, Ivory and Chatenay, 2½-100; $50 per 1,000. C. H. Totty, Madison, N.J.

Roses, for varieties and prices see column adv. in this issue. Leedle Floral Co., Springfield, O.

Roses, Bride, Richmond, Killarney, 2½-in., own roots. Thorn Hedge Greenhouses, Newtown Square, Pa.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading vars. Dingee & Conard Co., West Grove, Pa.

Roses, leading varieties, also tree roses. W. & T. Smith Co., Geneva, N. Y.

Beauties, 4,000 fine 3-in. stock, $80 per 1,000. J. M. Gasser Co., Rock River, O.

Roses, dwarf, climbing, tree and ramblers. Bobbink & Atkins, Rutherford, N. J.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

SALVIAS.

Salvias, all the leading sorts, fine plants, 2½-in. pots, $2 per 100; $17.50 per 1,000. The Good & Reese Co., Springfield, O.

Salvias, 3 vars., 2½ and 3-in., $2.50 and $3 per 100. West End Greenhouses, Lincoln, Ill.

Salvias, 6 varieties, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia Bonfire, 4-in., $8 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Salvias, R. C., $1 per 100; $8 per 1,000. S. D. Brant, Clay Center, Kans.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

SEEDS.

Seeds, Begonia Dichroa; Ruby, pkt., 50c. Stocks, Cut and Come Again, Early Brompton, Salvia Bonfire, pkt., 25c; Zurich, pkt., 50c. Petunia, large flowering, pkt., 50c; Howard's Star, Inimitable, pkt., 25c. Lobelia Lugdenensis, Hambergia, pkt., 25c; Barnard's Perpetual White Lady, pkt., 25c. Myosotis stricta, 3 colors, pkt., 20c; robusta grandi, 2 colors, 20c. Poppy, Alpine, pkt., 15c. W. C. Beckert, Northside, Pittsburg.

Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall Chas. H. Totty, Madison, N. J.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. Zangen, Hoboken, N. J.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, Seth Low muskmelon. New York Market cucumber. Brechin Castle Brussels sprouts. Weeber & Don, 114 Chambers St., New York.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seed, Asparagus plumosus, $2 per 1,000. Jos. H. Cunningham, Delaware, O.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds of all kinds. Stokes' Seed Store, 219 Market St., Philadelphia.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton Zvolanek, Boundbrook, N. J.

Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

SMILAX.

Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 3-in., $4 per 100. United States Cut Flower Co., Elmira, N. Y.

Smilax, $15 per 1,000. A. M. Herr, Lancaster, Pa.

Smilax, 3-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spireas, J. Smits, Ltd., Naarden, Holland.

SWAINSONA.

Swainsona alba, R. C., $1. Byer Bros., Chambersburg, Pa.

Swainsona, 2½-in., $2 per 100. N. C. Moore & Co., Morton Grove, Ill.

VEGETABLE PLANTS.

Vegetable plants, cabbage, field-grown, leading vars., $1 per 1,000; 10,000 and over, 85c. Beets: Crosby, Egyptian and Eclipse, $1.25 per 1,000. Celery: White Plume, Golden Self Blanching, Giant Pascal, $1.25 per 1,000. Egg plant: N. Y. Improved and Black Beauty, $3 per 1,000. Lettuce: Big Boston, Boston Market, Tennis Ball, Grand Rapids, $1 per 1,000. Pepper: Ruby King, Bull Nose, Sweet Mountain, Neapolitan, $3 per 1,000; Chinese Giant and Cayenne, 50c per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Tomatoes, Earliana, Chalk's Jewel, Greater Baltimore, $1.25 per 1,000. Transplanted pepper and egg plants, 50c per 100. Sweet potato plants, $2.50 per 1,000. Cabbage, Jersey Wakefield, $1.00 per 1,000. Edwin Bishop, Roslyn, Md.

Vegetable plants: Cabbage, all kinds, $1 per 1,000. Tomatoes, $1.50 per 1,000. Cauliflower, Snowball, $2.50 per 1,000. Egg plant and peppers, $2.50 per 1,000. J. C. Schmidt, Bristol, Pa.

500,000 Yellow Jersey and Red Bermuda sweet potatoes; 300,000 early tomatoes and early cabbage plants; now ready, 30c per 100; $2 per 1,000. Cash. Mrs. Edw. Hayden, Greenview, Ill.

VERBENAS.

Verbenas, 62 vars., R. C., our selection, 75c per 100; $6 per 1,000; plants, our selection, $2.50 per 100; $20 per 1,000; R. C., purchaser's selection, 90c per 100; $8 per 1,000; plants, $3 per 100; $25 per 1,000. J. L. Dillon, Bloomsburg, Pa.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Verbenas, asst., 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Phila.

Verbenas, separate colors, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Verbenas, 2-2½-in., $2 and $3 per 100. West End Greenhouses, Lincoln, Ill.

Verbenas, $2 per 100. Jos. H. Cunningham, Delaware, O.

VINCAS.

Vinca Var., finest stock, long and heavy, $10 and $12.50 per 100. Bellamy Bros., 207 Delaware St., Syracuse, N. Y.

Vinca var., 3-in., $3 per 100. Grave myrtle,, 2½-in., 2½c. N. C. Moore & Co., Morton Grove, Ill.

Vincas variegated, 3½ and 4-in., $6, $8 and $10 per 100; 5-in., $13 per 100; 2½-in., $3 per 100. Cash with order. Geo. Bischoff, Ann Arbor, Mich.

Vincas, 4-in., $12 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Vinca var., 2½-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Vinca variegated, 2¼-in., $2.50 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vincas, var., 2¼-in., $2.50 per 100. Jos. H. Cunningham, Delaware, O.

Vinca var., R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Vinca variegated, 3 to 4-in., $5 to $10 per 100. West End Greenhouses, Lincoln, Ill.

Vinca vines at Geo. A. Kuhl, Pekin, Ill.

VIOLETS.

Violets, Baronne Rothschild, the freest, most fragrant and best paying single violet, R. C., $10 per 100. Chas. H. Totty, Madison, N. J.

Boston violet, very strong, well rooted divisions, $5 per 100. Geo. Corbett, College Hill, Station K, Cincinnati, O.

Violets. Wood Bros., Fishkill, N. Y.

WHOLESALE CUT FLOWERS.

Commission Dealers.

Abrahamson, Wm. W., 21 Wabash Ave., Chicago.

Amling, E. C., 32-36 Randolph St., Chicago.

Berning, H. G., 1402 Pine St., St. Louis.

Deamud, J. B. Co., 51 Wabash Ave., Chicago.

Ford Bros., 48 W. 28th St., New York.

Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., New York.

Guttman, Alex. J., 34 W. 28th St., N. Y.

Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

Hunt, E. H., 76 Wabash Ave., Chicago.

Kennicott Bros. Co., 48-50 Wabash, Chicago.

Kessler Bros., 50 W. 28th St., New York.

Keuhn, C. A., 1122 Pine St., St. Louis.

Kruchten, John, 51 Wabash Ave., Chicago.

Krueger Bros., Toledo, O.

Langjahr, Alfred H., 55 W. 28th St., N. Y.

Manhattan Flower Market, 46 W. 28th St., New York.

McCallum Co., 937 Liberty Ave., Pittsburg.

McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.

McKellar, Chas. W., 51 Wabash, Chicago.

McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.

Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.

Millang Bros., 41 W. 28th St., New York.

Chas. Millang, 444 6th Ave., cor. 27th St., New York.

Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.

Niessen Co., Leo, 1208 Arch St., Phila.

N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.

Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.

Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.

Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.

Pollworth, C. C. Co., Milwaukee, Wis.

Randall, A. L. Co., 19 Randolph St., Chicago.

Raynor, John I., 49 W. 28th St., New York.

Rice Bros., 128 N. 6th St., Minneapolis, Minn.

Robinson, Henry M. & Co., 11-15 Province St., Boston.

Schreiner, Nicholas C., 41 W. 28th St., N. Y.

Seligman, John, 56 W. 26th St., New York.

Sheridan, Walter F., 39 W. 28th St., N. Y.

Smith & Co., W. C., 1316 Pine St., St. Louis.

Traendly & Schenck, 44 W. 28th St., N. Y.

Vaughan & Sperry, 58-60 Wabash Ave., Chicago.

Welch Bros., 226 Devonshire St., Boston.

Winterson, E. F. Co., 45-49 Wabash, Chicago.

Young, A. L. & Co., 54 W. 28th St., N. Y.

Young, John, 51 W. 28th., N. Y.

Young, C. & Sons, 1406 Olive St., St. Louis.

Young & Nugent, 42 W. 28th St., New York.

Zech & Mann, 51 Wabash Ave., Chicago.

Growers.

Bassett & Washburn, 76-78 Wabash, Chicago.

Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.

Bruns, H. N., 1409-11 W. Madison, Chicago.

Budlong, J. A., 37-39 Randolph St., Chicago.

Elliott, W. H., Brighton, Mass.

Hill, The E. G. Co., Richmond, Ind.

Jensen & Dekema, 674 W. Foster Ave., Chicago.

Poehlmann Bros., 35-37 Randolph, Chicago.

Reinberg, Peter, 35 Randolph St., Chicago.

State Nursery Co., Helena, Mont.

Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

Weiland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

RETAIL CUT FLOWERS.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.

Anderson, S. C.—The Anderson Floral Co., 533 Marshall Ave.

Atlanta, Ga.—Atlanta Floral Co., 41 Peachtree St.

Baltimore, Md.—Z. D. Blackistone, 1601 Eutaw Pl.

Boston, Mass.—Hoffman, florist, 59 Massachusetts Ave.

Brooklyn, N. Y.—Robt. G. Wilson, Fulton St. and Green Ave.

Buffalo, N. Y.—Palmer's.

Chicago—Hauswirth, Florist, Auditorium Annex.

Chicago—Wittbold, Florist, 1657 Buckingham Place.

Cincinnati, O.—Julius Baer, 138 E. 4th St.

Dayton, O.—Matthews, 16 W. 3rd St.

Colorado Springs, Colo.—Frank F. Crump.

Denver, Colo.—Daniels & Fisher.

Denver, Colo.—The Park Floral Co.

Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.

Galveston, Tex.—Mrs. M. A. Hansen.

Helena, Mont.—State Nursery Co.

Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.

Kansas City, Mo.—Geo. M. Kellogg Estate, 906 Grand Ave. Also Pleasant Mill, Mo.

Kansas City—S. Murray, 1017 Broadway.

Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.

Louisville, Ky.—J. Schultz, 644 4th Ave.

New Orleans, La.—U. J. Virgin, 833 Canal St.

New York—M. A. Bowe, 1294 Broadway.

Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.

Owatonna, Minn.—Clinton Falls Greenhouses.

Philadelphia, Pa.—R. Kift, 1725 Chestnut St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton St.

San Francisco, Calif.—J. B. Boland, 60 Kearny St.

St. Louis, Mo.—Young's, 1406 Olive St.

St. Paul, Minn.—Holm & Olson.

Terre Haute, Ind.—John Heinl & Son, 129 So. 7th St.

Toledo, O.—Krueger Bros.

Toronto, Ont.—Dunlop's, 96 Yonge St.

Washington, D. C.—Z. D. Blackistone, 14th and H Sts.

Washington, D. C.—A. Gude & Bros., 1214 F. St.

BLOWERS.

Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

BOILERS.

Boilers. Myers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, improved greenhouse boilers, made of best material; shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, New York.

Boilers, boilers of high grade for greenhouses. Steam or hot water. Giblin & Co., Utica, N. Y.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., New York.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

BUILDING MATERIAL.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress;" everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

Building material, cypress sash bars. Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material of all descriptions for all cypress semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouse and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes. Established 1851. John B. Smith & Sons, Ltd., Toronto, Can.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23rd St., New York.

Pecky cypress. Williamson-Kuny Mill & Lumber Co., Mound City, Ill.

Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard Shredded Cattle Manure, 100 lbs. $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

FOWLS.

White and Black Swans, Peafowls, White and Pearl Guinea Fowls, etc. Send for catalogue. Edw. S. Schmid, Washington, D. C.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American. "White Rose." Stenzel Glass Co., 2 Hudson St., N. Y.

Glass, High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. York.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, New York.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters, Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

Bordeaux paste and Bordeaux arsenate for mildew and bugs. Niagara Sprayer Co., Middleport, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

Cooper's Spray Fluids. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

KNIVES.

KNIVES—Razor steel, hand forged, postpaid. Propagating, 50c; Budding, 35c; Grafting, 25c; Pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, Ohio.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, Ohio.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit.

MISCELLANEOUS.

Everlasting tile benches, hollow tile, partition, tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

SECOND HAND BAGS, burlap and barrel covers of every kind bought and sold. Write for prices. Richmond Bag Co., Richmond, Virginia.

Printing. Large runs of catalogues a specialty. Write for figures, Regan Printing House, 89-91 Plymouth Place, Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

A Knapsack Sprayer, for greenhouse and lawn spraying. Niagara Sprayer Co., Middleport, N. Y.

Engravings of all kinds. Dearborn Engraving Co., 1322 Wabash Ave., Chicago.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Ideal Pipe Clamps. A quick repair for rust holes and split pipes. Write for circular. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

Iron fittings, patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, New York.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

Free to Florists—Sample box of Red Pots. George E. Feustel, Fairport, Iowa.

PUMPING ENGINES.

Pumping Engines, two streams of water for 1 hour cost 2 cents if you use a Standard pumping engine. The Standard Pump & Engine Co., Cleveland, O.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

STAKES.

Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 for 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit, Mich.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Supplies. Cape flowers, cycas leaves, metal designs and all florists' supplies. A. Herrmann, 412 East 34th St., New York.

Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburg, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

Supplies of all kinds. A. L. Randall Co., 19-21 Randolph St., Chicago.

TOBACCO.

"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

TOOTHPICKS.

Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

VASES.

Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Reservoir vases for cemeteries and parks, from $6 to $100 each. Walbridge & Co., Buffalo, N. Y.

Iron reservoir vases. McDonald Bros., Columbus, O.

VENTILATING APPARATUS.

Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Ventilators. The Advance Ventilating Apparatus. Write for estimates and circulars. The Advance Co., Richmond, Ind.

Foley ventilating apparatus, unexcelled. Send for circulars and estimates. The Foley Mfg. Co., Western and 26th St., Chicago.

BOOKS FOR FLORISTS.

LAWNS AND HOW TO MAKE THEM (Leonard Barron).—A very useful and practical work, thoroughly covering the subject of which it treats. Illustrated. $1.10.

THE HORTICULTURISTS' RULE-BOOK (L. H. Bailey).—Contains information valuable to all those engaged in any branch of horticulture. Illustrated. 312 pages. 75 cents.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent).—The most complete and authentic work on the subject. The pages number 826, with over 600 illustrations. $6.00.

THE ROSE.—Its cultivation, varieties, etc. (H. B. Ellwanger).—A complete guide of the cultivation of the rose, together with the classification of all the leading varieties. $1.25.

AMERICAN FLORIST CO. 324 Dearborn St., Chicago.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It

St. Louis.

PLENTY OF STOCK.

The weather during the past week has been very changeable. Stock is plentiful; carnations, however, have held up firmly 2½-3 cents were the prices demanded for white stock on account of Mother's day. The retailers in general laid in quite a supply. Long stemmed American Beauty roses have been quite plentiful and fine stock is offered in cleanup lots at low figures, some extra fine stock going on Saturday at 12½-15 cents. Outdoor lilac is about over and red peonies from the south have made their appearance. Blue iris is now in in large quantities. Cape jasmines are expected to arrive this week.

NOTES.

Wm. F. Nichol, president of the St. Louis Seed Co., is offering a chance to all children in the city under 15 to get six packets of fresh flower seeds entirely free to help make the city more beautiful; Saturday morning was the distribution. The seeds were phlox, nasturtiums, stocks, sweet peas, verbenas and marigolds. Teachers and parents are appealed to to encourage the children in the cultivation of flowers.

Will Young, president of the Florists' Club, can be seen daily at Delmar gardens, superintending the planting out of the grounds of the new sunken gardens. This will be a fine artistic job when finished and will add greatly to the beauty of this popular summer garden.

The Southern Nut Nursery Co., whose offices are at 1411 Leggett building, have a display in the windows of the Iron Mountain Railroad Co. of fancy paper shell pecans. The nuts on exhibition are very large and, according to the growers, very profitable.

Quite an excitement was around the wholesale market Saturday, Wm. Smith, of Wm. Smith Floral Co., announced to his friends that his partner Will Osseck has just phoned him that Mrs. Osseck has been safely delivered of a 10-pound boy.

Joseph Goldbach has opened up a retail establishment at 1806 Olive street on the south side of the street. He has a fine stock of flowering plants. He also makes a specialty of gold fish of which he has a very large variety.

John S. Seketer, well-known in the wire design trade, has opened up a new shop at 202 N. Thirteenth street. He is a very artistic worker and thoroughly understands his work and should make good.

We regret to announce the death of Alex. H. Krite whose wife conducted a retail establishment on Cass avenue; our sympathies are extended to her in her sad bereavement.

Quite an interest is displayed in the early closing movement. Some favor closing from June 1 while others think July, August and September sufficient.

The annual outing of the Florists' Club to its friends is now being talked about and the time and location of the picnic will be discussed next Thursday at the meeting.

W. F.

LOS ANGELES, CALIF.—Dr. Perlley Spaulding, pathologist of the Bureau of Plant Industry, Washington, D. C., arrived here recently to experiment on eucalyptus seedlings with a view to determine the character of the fungus trouble that attacks them and to devise means for its cure. The specimens not being in good condition for the experiments, Dr. Spaulding will return in August. He has been experimenting with conifers in the east with a weak solution of sulphuric acid.

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Those Red Pots

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.

HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St.

Wired Toothpicks

10,000, $1.75: 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers

BROOKLYN, N. Y.—Aloysius Gross was indicted for the murder of John Scott in the county court May 7. He pleaded not guilty.

CANTON, ILL.—Keeling & Lenner lost 250 panes of glass in the recent hailstorm and at the Barnhart greenhouse the damage exceeded $150.

Standard Flower Pots!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	$4.88	144 6-in., in crate,	$3.16
1500 2¼ "	5.25	120 7 "	4.20
1500 2½ "	6.00	60 8 "	3.00
1000 3 "	5.00	HAND MADE	
800 3½ "	5.80	48 9-in., in crate,	$3.60
500 4 "	4.50	48 10 "	4.80
456 4½ "	5.24	24 11 "	3.60
320 5 "	4.51	24 12 "	4.80
210 5½ "	3.78	12 14 "	4.80
		6 16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.

361-363 Herndon St., CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for Price.

A. F. KOHR,

1521 Leavitt Street, CHICAGO

The Regan Printing House

LARGE RUNS OF

CATALOGUES

OUR SPECIALTY

WRITE FOR FIGURES.

83-91 Plymouth Place, CHICAGO

Pittsburg.

LITTLE CHANGE.

There has been a little change in the market, affecting carnations only. Mother's day caused quite a run on white; unfortunately a number of growers were off crop on this particular variety and it kept the wholesalers hustling to fill their orders. On roses there is still quite a glut in this city and the American Beauty market has not improved. It is hoped the commencements and social affairs will stir something up along this line.

"It's an ill wind that does nobody good" is a proverb Chas. Dougherty of McKeesport had substantiated during the storm last week. Mr. Dougherty has a pleasant country residence in North Versailles township, but until the storm, the fact that his barn inclined at an angle of 45°, was a drawback to his enjoyment. The wind which caused so much damage struck Dougherty's barn and instead of hurling it, as in the case of several other structures in that vicinity, raised it up, turned it round about and left it standing plumb.

The Pittsburg Florists' and Gardener's Club met May 4 with a good attendance. The subject for the evening was "Bedding Plants." Frank Cooks, gardener to J. H. Parks received a certificate of merit on Clerodendon Balfouri, cibotium, Nephrolepis davallioides furcans. McMadsen, gardener to R. H. Boggs won a certificate on rehmannia and Comet aster. It was decided at this meeting to hold future meetings in the various wholesale houses until a satisfactory hall can be obtained.

E. Weaver of Randolph & McClements who has been ill the past month is able to be around again.

A. M. Murdoch showed a very pretty window of yellow iris and white snapdragon last week.

E. G. Sigle of Youngstown, O., had a very narrow escape, his plant wagon upsetting.

H. P. Howe of Ridgway has closed up his business there and moved to Kane.

Visitors: Geo. Huscroft, Steubenville, Geo. Manos, Chicago, Th. Malbranc, Johnstown, I. S. Crall, Monongahela, Martin Reukauf, Philadelphia, ——— Smith of Edwards Folding Box Co., Philadelphia, and Israel Rosnosky of the H. F. Michell Co., Philadelphia.

J.

Washington.

BUSINESS LIVELY.

We have experienced the first real hot weather of the season and in consequence stock has suffered considerably. The retailers experience great difficulty in keeping the roses from opening, and the only remedy seems to be to use plenty of ice. Last week the several White House events on the cards, two unveiling ceremonies and the hospitalities in connection with them, a continuation of dinners and luncheons kept the local retailers hustling. The regular meeting of the Florists' Club was held at Gudes hall, 1214 F street. I. Rosnosky, with Henry F. Michell Co., Philadelphia, was admitted to membership. President Kramer, asked the members of the Florists' Club's opinion regarding the fall show, and claimed that if all were in favor of such a show it would be advisable to make known the proposition, so that the growers might prepare for the same. Peter Bissett agreed with this and the secretary moved that preliminary preparation be made at once. Much was said regarding the success of the last show, and many expressed their views regarding a favorable hall to hold the fall show. The majority seem to favor Old Masonic temple where the show was given last year.

Potomac park, the reclaimed land flanking the Potomac river, will soon be one of the finest open spaces around the city, with all the conveniences of a first rate park. Col. Spencer Cosby is deeply interested in the project.

G. S.

BLOOMSBURG, PA.—The Davis Bros. plant was sold at sheriff's sale May 1 for $1 to Attorney C. W. Miller subject to liens and mortgages.

GLENVIEW, ILL.—Seven greenhouses belonging to Gerhardt & Gould were blown down May 1.

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

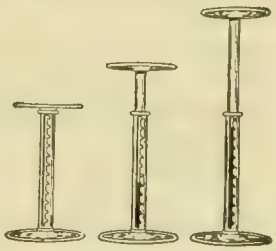
We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers. Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

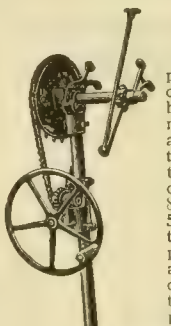
No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, Lansdowne, Pa.

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.



The Advance Ventilating Machine

Is in use in 40 states, has pleased and is pleasing hundreds of florists. Made of the best material, in a mechanical manner, it will last and is always ready for work. It will take care of all the ventilation that the shafting pipe will carry. Our shafting pipe at 8c for the double strength and 5c for the single strength, is the best grade, new pipe, all painted, straightened, drilled and furnished with our patent couplings and will satisfy you that we are moderate in our profits. Get our estimates, net prices and circular. Give us a trial. We guarantee satisfaction or your money back.

THE ADVANCE CO., Richmond, Ind.

THE ART OF

Floral..... Arrangement.

The first special newspaper in the world for floral arrangement.

250 ILLUSTRATIONS ANNUALLY.

Specimen number free.
Subscription, $2.40 yearly.

BINDEKUNST-VERLAG,
J. Olbertz, ERFURT, GERMANY.

H. BAYERSDORFER & CO.,

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA

Send for our new catalogue.

Worcester, Mass.

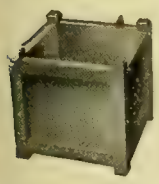
The first May show of the Worcester County Horticultural Society, held May 6, was the poorest in a long time. The visitors were disappointed, there being only five tables occupied by the exhibits and they were spread out somewhat. The reason assigned is the bad weather and the florists and private gardeners being busy planting, etc. The awards were: Cut flowers.—Allyne W. Hixon, first; Mrs. A. E. Underwood, second; Albert Pollard, third. Basket.—Allyne W. Hixon, first; Mrs. A. E. Underwood, second; Albert Pollard, third. Hyacinths.—Mrs. Edward Warren, first; Mrs. E. J. Whitney, second. Pelargoniums.—M. J. Whittall, first.

Frank Sokol reports business good and has an excellent lot of bedding plants for spring sales about 20,000 in all. R.

OAK HILL, ME.—Geo. Leonards has built a new greenhouse, also an addition to his old one.

EVERETT, MASS. — Osgood Bros., Woodlawn, have opened a down-town office in the Everett Associates' building Everett square.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.

WAGNER PARK CONSERVATORIES, Sidney, Ohio.

Le Journal des Roses

Organ of the French Rosarians.

Published at Paris. Once a month with colore plates.

Subscription $2.70 per year. Sample copies free

ADMINISTRATION DU **JOURNAL DES ROSES**

a SUISNES, Brie

Par Grisy-Suisnes. (Seine et Marne), FRANCE.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the

"Horticultural Advertiser"

This is the British Trade Paper, being read weekly by all the horticultural traders: it is also taken by over 1000 of the best continental houses.

Annual subscription, to cover cost of postage, 75c.

As the H. A. is a purely **trade** medium, applicants should, with the subscription, send a copy of their catalog or other evidence that they belong to the nursery or seed trade.

Money orders payable at Lowdham, Notts.

Address **Editors of "H. A."**

Chilwell Nurseries, LOWDHAM, Notts, England

Iron Reservoir Vases

AND

Lawn Settees

Manufactured by

McDONALD BROS.,

COLUMBUS, O.

The largest manufacturers of these goods in America. Send for catalogue

Be Sure And Send For Our

Cement Bench Booklet

JUST OFF THE PRESS

It Tells You all you need to know about the most modern, the most durable (practically indestructible), and the cheapest greenhouse bench on the market. It's the well-known **Wittbold Bench.** First cost no greater than that of wood bench and needs no repairs. You should have a copy of this booklet as soon as possible. Free on request.

Write For It Today.

E. H. HUNT, 76-78 Wabash Ave., Chicago.

Reservoir Vases

For Cemeteries and Parks

THE BEST MADE

The reservoir supplies the plants with moisture by capillary attraction.

Not necessary to water plants oftener than once in ten days.

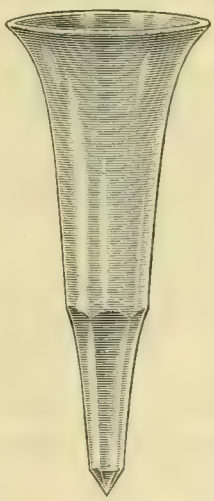
We make nearly 100 styles, ranging in price from $6.00 to $10.00 each.

None better made. Send for catalogue.

WALBRIDGE & COMPANY

The Original Patentees and Makers,

BUFFALO, N. Y.



Clara Cemetery Vase

MADE OF SOLID MOULDED GLASS.

12 inches high, with wide flaring mouth. Can be supplied in green or white. Doz., $2.50; barrel of 3 doz, $6.00, f. o. b. Chicago.

Vaughan's Seed Store,

CHICAGO: 84-86 Randolph St.

NEW YORK; 25 Barclay St.

Send Advertisements Early for Best Display.

Best Quality. Hand-made

Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

—WRITE US.—

Baur Window Glass Co.

EATON, INDIANA.

MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

THE BEST WAY
to collect an account is to place it with the
National Florists' Board of Trade
56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

VAUGHAN'S PERFECTION POINT
SIZE 2½ SIZE 2

Original Van Reyper's
No rights or lefts.
No. 2 single thick,
No 2½ double thick
1000 for 55c, by mail 70c, 5000 lots 50c per 1000 by express,
Vaughan's Seed Store,
Chicago, New York

Oklahoma City, Okla.

MORE HAIL DAMAGE.

In the afternoon of May 8, the most terrific hailstorm this city has ever known caused the florists here much loss. Angel's Greenhouses had about 1,000 feet of glass broken. Carter & Hagemann who had about a third of their glass broken about two weeks ago by hail lost the balance of it. Of the 14,000 feet of the Stiles Floral Co. there are not a dozen unbroken panes of glass. The foreman states that by actual measurement and weight the majority of hailstones were three inches in diameter and weighed seven ounces each. Many pots in the houses were broken and between the falling glass and continued hail much damage resulted. For summer flowers this firm had erected over a part of a field a flat roof of lath, nailed on rafters supported by 8-foot posts set 8x10 feet. It is estimated that the hail broke about 30,000 of the laths. Fortunately extra whole insurance on the total area of glass was carried. Carter & Hagemann also had whole insurance but all condole with Mr. Angel who was not insured.

G. S.

AMES, IA.—Considerable damage was done here, by the recent hailstorms, to several greenhouse establishments.

Attention!! Glass Buyers!!

GREENHOUSE GLASS.

You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint

The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,
Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

Don't Take Any Old Thing

Insist upon the best

Greenhouse Glass

Carefully assorted, flattened and packed. We are the

World's Largest Producer

Write us for particulars.

AMERICAN WINDOW GLASS CO.
Farmers' Bank Building, PITTSBURG, PA.

The James H. Rice Co.

IMPORTERS and JOBBERS

GREENHOUSE GLASS

A SPECIALTY.

Window Glass, Paint, Putty, etc.

Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets, CHICAGO.

STENZEL-GLASS CO.

2 Hudson St., NEW YORK.

—Specialists in—

GREENHOUSE GLASS

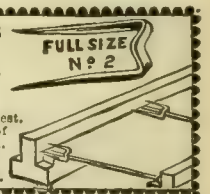
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE.

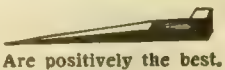
Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address

JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.

Holds Glass Firmly
See the Point of
PEERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.





SIEBERT'S ZINC
Never Rust ⊖
GLAZING POINTS
Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

COOPER'S SPRAY FLUIDS

LATEST DISCOVERY

Progressive Growers Investigate

32 page Booklet of Bristish, American and Canadian Testimony free for the asking.

SOLE PROPRIETORS
WILLM. COOPER & NEPHEWS
177 Illinois Street.
CHICAGO.

Garman's Antipest

INSECTICIDE AND FUNGICIDE
For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.
This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.
PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

Dayton, O.

The weather is fine and business is good and the fruit of all kinds is safe in this locality. Planting carnations in the field is the order of the day. Carnations are scarce, roses plentiful and outdoor flowers are in abundance. Peonies will not make it however, for Memorial day.

NOTES.

John Freundenberger, landscape artist formerly with the National Cash Register Co., is now in business for himself having obtained a big contract for landscape work in Detroit.

Matthews the Florist has the entire contract for furnishing the bedding plants for Fairview park, the most beautiful summer resort in this neighborhood.

The Dayton Floral Co. has just received three large shipments of palms from Belgium; they came through in fine condition.

The National Plant Co. is in the hands of a receiver and has advertised for sale.

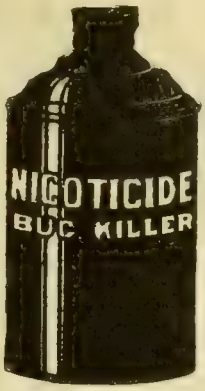
Geo. Bartholomew was calling on the trade in Springfield on Friday of last week.

M.

MENTOR, O.—F. E. Higgins has built a greenhouse in which he will grow violets for the coming season.

ATHENS, O.—The contract for the new greenhouse on the state hospital grounds has been let, and work will begin at once. The building is to be 28x150 feet.

OREGON CITY, ORE.—The Rose and Carnation Society will hold its annual show about the middle of June. Only public school pupils will compete for premiums in the wild flower classes.



THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,
OWENSBORO, KY.

A Knapsack Sprayer

With power for Greenhouse and Lawn spraying—nothing like it. Send for photograph and description.

Our Bordeaux Paste and Bordeaux Arsenate

DEATH TO MILDEW AND BUGS.
Why worry when you can have healthy plants and perfect bloom?
Don't delay, write us and see what we have to offer you. Address.

NIAGARA SPRAYER CO.,
MIDDLEPORT, N. Y.

Green Flies and Mealy Bugs too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

THE H. A. STOOTHOFF CO.,
MOUNT VERNON NEW YORK.

Now is the Time

to Subscribe to the

Horticultural Trade Journal

Published weekly. The Largest Brightest and Best British Trade Publication. Also

THE INTERNATIONAL EDITION

Published quarterly. Annual subscription for weekly and quarterly numbers, One Dollar. (International money order). Subscribe today and keep in touch with European markets and topics.

The Horticultural Printing Company
BURNLEY, ENGLAND.

Fresh Tobacco Stems,

$1.50 for 300 lbs.

W. C. BECKERT,
North Side, PITTSBURG, PA.

HAMBURG, N. Y.—Chas. Guenther is building an addition to his greenhouses.

WIZARD BRAND MANURES

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

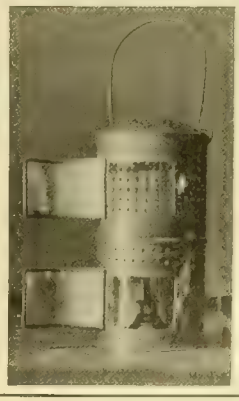
SOMETHING NEW for GREENHOUSES

"SULFOCIDE"
PRATT'S
SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE
FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.
Use 1 part to 75 or 100 parts of water.
B. G. PRATT CO., 50 Church St., New York, U. S. A.



This Kills Mildew Every Time.

For particulars write
BENJAMIN DORRANCE,
Rose Growers,
Dorranceton, Penna.

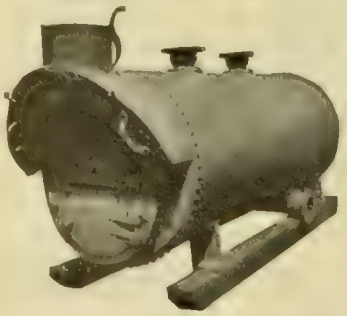
"Natural Guano"
PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.
Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

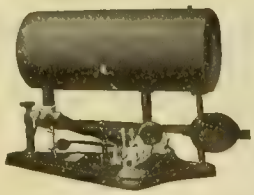
SHERIDAN, N. Y.—Fred. Friebel, who was recently reappointed park superintendent, is setting out a large quantity of plants and flowers. He is also setting out several hundred dollars' worth of trees and shrubs.

The Superior Improved Internal Fired Boiler
Made in Ten (10) Sizes.



No brick foundations required; can be cleaned while in use; shipped on skids ready for installation. Specially designed for greenhouse use.
Investigate before buying.
Catalogue and Prices on Application.
Superior Machine & Boiler Works,
25-133 W. Superior St. CHICAGO, ILL

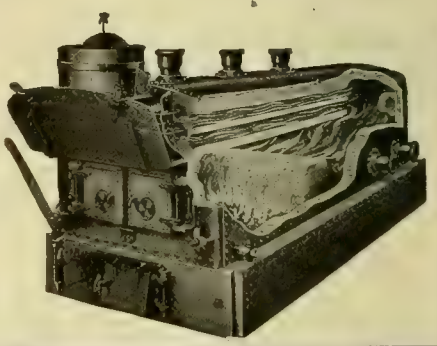
For The Greenhouse



MOREHEAD
Return Steam Traps

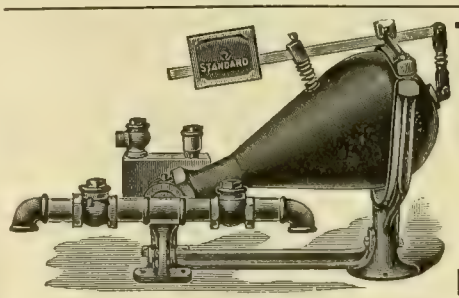
The present improved **Morehead Automatic Return Steam Traps** are the result of twenty years' use and development in thousands of heating and steam plants throughout the world. The "Morehead" was the **original** and has at all times been the **standard** by which the comparative values of other traps have been measured. They've stood the test for 20 years, and have gained the "well-done" of all users. Will you join the ranks? **Catalogue on request.**
MOREHEAD MFG. CO., 1047 Grand River Avenue, **Detroit, Mich.**

The KROESHELL BOILERS
IS THE ONLY PERFECT
HOT WATER BOILER.
(NOT CAST IRON)
Has water in front, sides, top and a water back.
Made in 15 sizes, heating 6,000 to 50,000 square feet of glass to 60° at 15° below zero.
Prices and cata ogue on application.
KROESCHELL BROS. CO.
45 Erie Street, CHICAGO.



Use our patent Iron Bench Fittings and Roof Supports.

IMPROVED VAPORIZING PANS
For Tobacco Extracts, etc. Send for Circulars.
DILLER, CASKEY & KEEN,
S. W. Corner Sixth and Berk Streets PHILADELPHIA.
VENTILATING APPARATUS.



The Standard Steam Trap
Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.
Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.
E. HIPPARD. Youngstown, O.

The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

Facts About Concrete.

A smooth run for the wheelbarrows such as is provided by good boards lessens the labor considerably.

See that there are no lumps of clay or loam in the stones or gravel, as these prevent the concrete binding.

Always have the mixing board perfectly level or waste will occur by the grout being washed over the ends.

Plenty of help, in order to handle the mixing and placing of the concrete with dispatch, is a great advantage.

In preparing concrete see that the sand is perfectly free of all vegetable matter or the strength of the concrete will be materially reduced.

If the mixture has a streaky look it is not thoroughly incorporated, and more time must be given to it, working it over and over again until it is thoroughly mixed.

A mixture of sizes of stones or gravel is always an advantage. It reduces the size and number of voids in the concrete, thus saving sand and cement and resulting in a more compact mass.

In very hot sunny weather finished concrete is better for being covered with boards for a few days until thoroughly hardened. It must also be protected in frosty weather, but not with manure. In hot weather damp the surface daily for a week to prevent this drying out much quicker than the center.

Hot Water Versus Steam.

ED. AMERICAN FLORIST:—

I expect to put up three greenhouses, 25x100 feet each, on a new place, as I have no more room here. Would you suggest building to run north and south? What kind of heating, hot water or steam? I expect to enlarge this as soon as possible.

W.

Wisconsin.

While it really makes very little difference which way the houses run, building them north and south, with even-span roofs, has some advantages when the lay of the land makes it possible to have the heating plant at the north end of the range. Especially if the size of the plant is to be increased, steam will be likely to give more satisfaction than hot water, as, although the cost of fuel may be slightly more, the expense of installation will only be two-thirds as much. L. R. T.

Greenhouse Building.

Mound City, Mo.—John H. Durham, one greenhouse 36x50 feet.

Ridgeway, Pa.—Mountain Greenhouse Co., one greenhouse.

Calgary, Alta.—A. M. Terrill & Co., 25,000 feet of glass.

Omaha, Neb.—Hess & Swoboda, three greenhouses 25x200 feet each.

Fulton, Ill.—McKee & Preston, one greenhouse 16x250 feet.

Hagerstown, Md.—Wm. Bester, two greenhouses 26x150 feet and two 30x150 feet; H. A. Bester & Sons, two greenhouses 30x150 feet, others to follow; H. Holzapfel, three greenhouses 30x230 feet.

Evansville, Ind.—Austin Wallace, one greenhouse.

Lancaster, Pa.—J. W. Ritchey, three greenhouses each 22x115 feet.

Sugar Creek, Pa.—H. C. Garrard, one greenhouse, 17x70 feet.

WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
Send for Catalog and Prices.
S. WILKS MFG. CO.,
3525 Shields Ave. CHICAGO.

Albany, N. Y.

At a regular meeting of the flower show committee of the Florists' Club, held on the evening of May 6, some progress was made in preparing for the exhibition which the club proposes to hold in November. The hall committee, Patrick Hyde, chairman, reported that negotiations are under way with the state adjutant general for the use of the local armory on the occasion. The large drill shed can be divided off and one-half will afford sufficient room for the exhibits. Chairman Fred A. Danker announced contributions to the prize fund from J. Snyder, Rhinebeck, President Frederick Goldring, Louis Menand, and Nathan Smith, carnation grower. The nucleus of a guaranty fund was raised among the members and an adjournment taken to the evening of May 20 when it is expected that a number of committees will be ready to submit reports.

The meeting of the show committee followed a regular meeting of the club at which Chairman Danker of the flower committee moved that the club decorate a memorial in the city on May 30. President Goldring appointed Messrs. Danker, Kurth, and Menand a committee to decide upon the memorial to be decorated. The committee retired and after consultation reported that it recommended that the club send a foliage wreath to be placed upon the soldiers' monument in the Rural cemetery. The report of the committee was adopted. A special committee composed of Frank M. Briare, Louis Menand, and H. E. Whittle presented a resolution upon the death of the mother of Wm. J. Roche, one of the members. The next meeting of the club will be held at the establishment of Patrick Hyde on the evening of June 3.

The Lord & Burnham Co., New York, was the lowest bidder for the new greenhouse to be built by the bureau of parks this summer. The firm bid $4,384. The board of contract will undoubtedly make the awards at an early date. R. D.

Concord Junction, Mass.

There is every probability that the demand for general bedding stock will be away ahead of that of last year and, by the reports of growers to date, it is likely to prove equal to the "prosperity" year of 1907.

Leonard Cousins, Jr., reports a very brisk trade in field grown pansies, these having been a specialty with him for many years. He has a fine collection worked up by constant selection of hardy, fall-flowering showy sorts. He also grows some 20,000 carnations in all the popular varieties including several promising new ones of his own raising.

GREENVILLE, Mich.—The Greenville Floral Co. is doing a large and increasing business in pot plants.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter. be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.
Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.
1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler. 60 horse power. 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell. ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!
A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers. Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters.
Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.
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2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

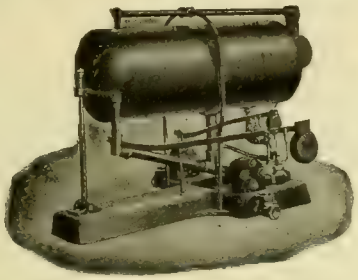
CYPRESS LUMBER AND LUMBER OF ALL KINDS.
Write for Prices.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!
Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent.
Ask for Our Latest 500-page Catalogue No. 47. It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets CHICAGO.

Mention the American Florist when writing

INSTALL A :: :: **"DETROIT" Return Trap**



"Detroit" Return Trap. (Patented)

And You Buy a Guarantee.

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. "Detroit" **Return Traps** require only about one tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY
Dept. A. F. DETROIT, MICH.

CHRIS. PFEIFFER BOILER CO.,
66-68 Michigan Street, CHICAGO.
We build a special steel hot water boiler shipped ready for operation. No brick required.
Phones; Main 4361. 4399.

Steel Return Tubular Boilers
The Most Economical Type of Boiler for Greenhouse Heating. Highly recommended by well-known florists.
JOHNSTON HEATING CO., 138 E. 31st St., NEW YORK.

Cincinnati.

A GOOD DEMAND.

Cool weather at the beginning of the week had the effect of retarding the heavy crops that were over burdening the market and conditions generally are much better than at last report. Demand for the season of the year is as good as can be expected while the quality of stock is all one could wish for. Roses are fine and, although some mildew is to be seen here and there, it is so little that it hardly makes an impression. Carnations are not as plentiful as last week consequently a slight increase in price is noticed. Good lilac in fine variety is on the market and prices justify the cutting of the branches. Outdoor lily of the valley is to be had but the quality is poor. Sweet peas are coming along in increased quantities. Lilies are good property and the same may be said of green goods. Smilax and ferns are scarce. Tom Windram is keeping the market well supplied with Asparagus Sprengeri and A. plumosus from his Florida farm.

The regular monthly meeting of the Florists' Society was held Saturday evening May 8, J. A. Peterson presiding. The names of H. J. Bode, E. R. Buschle and Fred Gear were placed in nomination for membership and will be voted on at the June meeting. All committees in charge of convention affairs reported progress. It was decided to hold weekly meetings of the board of governors on Monday evenings at the Sinton hotel, beginning May 17. At these meetings nothing but business pertaining to convention affairs will be discussed. Nominations for officers for the ensuing year then took place and it was decided to nominate the present board of directors without opposition as they have future affairs of the society pretty well in hand and unless all signs fail they will be elected at the annual meeting in June.

Henry Schwarz then read a paper entitled: "A Brief History of the Cincinnati Florists' Society" and when Mr. Schwarz finished he not only received the thanks of the society, but was the recipient of a good deal of applause. It was also suggested that the paper be turned over to the souvenir committee to be printed in the souvenir book which will be issued next August. J. A. Peterson showed some new varieties of lilac and cucumbers from his place. M. Meyer of Silkaline fame was present but business called him away before the meeting adjourned and the chair did not get a chance to call upon him for a few remarks.

NOTES.

W. K. Partridge made an assignment May 4, to Attorney Bellew for the benefit of his creditors. Liabilities are placed at $30,000 assets $40,000 and hailstorms are given as the cause of which Mr. Partridge was the victim twice in the past year and a half. The last storm occurred about two weeks ago and he suffered a loss of $8,000 and the cool weather setting in caused the roses to become mildewed and render them unsalable. The assignment created surprise among the trade in this city and a great deal of sympathy was expressed for Mr. Partridge in his trouble and all the boys hope that he will weather the storm.

The standholders in the Jabez Elliott Flower Market are now devoting their time and energies to unloading the bedding plants and some good stock is to be had at right prices. Good geraniums were noticed on George Corbett's, Dellar's and Witterstaetter's stands, Chas. Pfeiffer, Burtschey Bros., Ed. Fries, Gus Adrian and the Sunderman's showed miscellaneous stock well grown, Edward Schuman & Sons had a big lot of pansies of exceptionally fine strain, Schuman Bros. of Newport had fine ferns, Al Forder nice begonias, Ben Glins some good palms; in short all showed good stock and ought to be rewarded for their efforts by doing a good business.

C. J. Ohmer, who has been south for the past month combining business with pleasure, returned home Saturday evening and says he was greatly benefited by his trip. He looks the part.

S.

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Every greenhouse owner will want one of these books. It contains over 2,500 valuable hints and pointers for the grower and 700 remedies for diseases and insects. It gives you formulas for standard remedies, and is **worth $5.00** to anyone who is in the trade.

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If you have no printed letter head, send us 25c to pay the cost of printing and the postage, and the book will be sent you promptly. You will never regret buying one of these books, and if you have a printed card, envelope, letter head or stationery of any kind, you will get the book, postage prepaid, free of cost.

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Buy Direct From the MANUFACTURER

Write us for prices.

Williamson - Kuny Mill & Lumber Co.

MOUND CITY, ILL.

Grand Rapids, Mich.

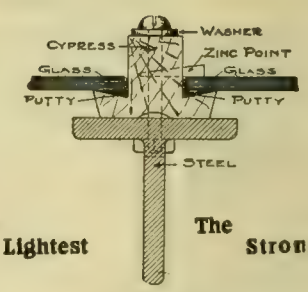
Considerable additions to the greenhouse plants in and around the city are projected or in progress. N. Cukerski will build 18,000 feet of new glass, Bruinslot & Sons 20,000 feet and the Grand Rapids Greenhouse Co. will add 12,000 square feet to its area under carnations. Henry Smith will rebuild two of his houses. The city will remove the greenhouses from the front of John Ball park to Butterworth, enlarging them considerably. A $20,000 pavilion is to be built on their site. Will Mulich will build two new houses for general stock.

Visitor: N. H. Moses, Petoskey.

E. B.

DAYTON, O.—The regular monthly meeting of the Florists' Club was held on April 26 at the store of J. F. Young on East Fifth street.

The Payne Steel "T" Bar Greenhouses



The Lightest — The Strongest

Half full Size.

HOUSES of this type constructed with both curved glass eaves and straight glass eaves. Least amount of shadow. Least amount of wood. No drip. Greatest durability.

JOHN A. PAYNE,

Greenhouse Designer and Builder,

260-274 Culver Avenue,

JERSEY CITY, N. J.

PECKY CYPRESS

Any Size or Length.

It is the Ideal Lumber for Greenhouse Benches.

LASTS FOREVER.

THE FOLEY MFG. CO.

26th and Western Ave., CHICAGO.

GATES AJAR.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, MAY 22, 1909.** **No. 1094**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR, Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

AMERICAN PEONY SOCIETY.

Sixth annual meeting at Queens, N. Y., June 1909. C. W. WARD, Queens, N. Y., Pres.; A. H. FEWKES, Newton Highlands, Mass., Sec'y.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the every day florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue, as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR MEMORIAL DAY.

Preparations.

At no time of the year does the average retail grower realize more the necessity of a show house or at least a show bench than during Memorial day week. While it is bad enough to have salable plants scattered over the houses at Christmas or Easter it is far worse to have this happen at this time of the year, where a thousand and one things have to be attended to at practically the same time. It usually does not take any longer at Easter to sell a customer $5 or $10 worth of plants than it will to sell $1 worth on Memorial day, and anything that can be done to save time and help to make a quick sale is in order. Nothing can be worse than to have to hunt to the end of one house for a couple of ageratums and to another for something else, and much time can be saved by having a good number of each variety of such plants for sale properly displayed in one house. Much depends on the display made the week previous to Memorial day; there is no better advertisement for the place, not only for that day but for the balance of the bedding season. With each year the demand for plants and flowers, suitable for grave decoration, increases which all tends to make this day, or rather week, as important for most of us as any we have during the year, and nothing should be left undone to be ready in every respect for the proper handling of whatever business there may come. If located in a suburban town, don't overlook a neat advertisement in the local paper. Not that people don't know you; it is more to remind them of the fact that they can get and take along what they may require to the cemetery.

Plants for Shady Places.

Quite frequently we have a call for plants suitable for shady places, such as graves where the branches of large trees overhang. Outside of Vinca minor hardly another plant could be used to cover a grave where no sun or very little of it can be had, but in half shady places where a geranium would not bloom, the begonia family, both the tuberous rooted and fibrous, can be recommended. A grave planted with two rows of the former of one shade through the center of the grave and a border of English ivies, consisting of nice 2½-inch stock about one foot long, will make a very neat, satisfactory and lasting decoration. So will Begonia, Erfordii and Schmidti. There is not half enough of either of these valuable bedders used for grave or lawn decorating. The two last mentioned begonias will do equally well in sunny positions. B. Erfordii with a border of Madame Salleroi geraniums makes a splendid combination. It does not cost a bit more to grow begonias than other stock and many more would be sold if the public could see them.

Cemetery Vases.

While all of the stock which the florist usually furnishes for grave planting will need occasional watering in order to do well, it would be folly to recommend a customer to use a planted vase if there is any doubt as to the proper care it might get. But wherever this can be depended upon a vase planted either to flowering or foliage plants is desirable. We have always a few of them filled a week or so before and either sell them as they are or take orders for others. If the vase consists of an assortment of plants geraniums and either vincas or English ivies will form in most cases the main part with a few lobelias and marguerites, a good Dræcena indivisa and a few coleuses. As to coleuses whenever possible they should be avoided. A coleus will always grow strongly in a vase and rob the other plants of nourishment.

The light and dark achyranthes are far more suitable for vases. An ideal vase can be had by using nothing but Boston ferns, either alone or with English ivies along the outside. This makes a fine showing all summer. The foliage will be a little light in color when grown in the open sun, and the fronds not so long, but that is the only difference between them and the ones grown in shady places. Be sure and have proper drainage in the vase. A Bos-

ton fern loves plenty of fresh water, but will perish if the roots are in water on account of poor drainage in a few days.

Cut Flowers.

The way things look at the time of writing there will be but little bulb stock left to cut in the middle west on May 31. Late tulips and narcissi cut before quite open will keep perfect almost a week if put into a dark, cold place, and this should also be done with outdoor lily of the valley, lilacs, cut Spiræa Van Houttei, peonies and others. A couple of really hot days will ruin most of these flowers when fully open on the plant. The heaviest call is not for roses and carnations; most people after having these on every occasion all winter are usually looking for something different at this time of the year and prefer what is known as spring flowers, and it should be so. The proper, timely cutting of these flowers is of the greatest importance and means money to the grower.

A good supply of greens should also be on hand. There is always a demand for some, and for the man whose place of business is far away from a wholesale market it is well to carefully go over everything 10 days before so as to be able to have shipped in on time everything needed. While doing this do not forget to order a few cemetery cut flower vases; they are inexpensive and therefore much in demand. In greens, ivy leaves, galax, leucothoe sprays, boxwood, branch laurel, laurel festooning and wreaths are most in demand and should be carried. They all last quite a length of time if not kept in a hot, dry and light place. Also order a good number of cheap baskets; hardly ever does a customer think of bringing one along when buying. Some expect to pay for them, others don't, but they are so cheap that one can afford, even with a small order, to furnish a basket

Useful Stock.

Pansies are among the most called for plants for Memorial day; there is no better way than to have a good number of baskets containing 12 to 25 plants in each ready. This is far better than to have a customer spend an hour selecting them from the frame they are growing in. This holds good with forget-me-nots and English daisies as well as verbenas. Spiræa Japonica and hydrangeas are also leaders for this day. Have them soaked thoroughly before they go out; a few hours without water will turn the most beautiful plant into a worthless one, and on that account, attention should be given them.

No matter how many new things one may have to offer, some of them never seen before, the geraniums are as popular as ever, and a good plant in full bloom is after all hard to beat for decorating a grave with. Assort the plants as to sizes; there is bound to be call for the cheapest as well as the choicest; there are buyers for both and the right way is to have batches of both ready. Here and there we get a customer who demands a geranium where maybe only one flower on the trusses is open or where one can just notice the color, but in most cases the plant has to be in full bloom in order to sell. Therefore it is well to keep this in mind when selecting plants for the filling of an order for bedding out, for here oftentimes plants not in bloom or only partially so can be used. Don't overlook a good number of white geraniums; hardly ever is an order taken for an assorted lot of plants that does not call for one or two white geraniums.

Vinca minor, by many called grave myrtle, is in greater demand than ever; for quite a number of years we had but little call for it, but of late the demand has increased more than for any other plant we grow for Memorial day. There are two ways of having the plants; one is to take up a quantity in small clumps, have the ball wrapped in paper or moss; another is to grow a number of them in

Dragon Vase by Fleischman, Chicago.
Five Feet High Filled with Antirrhinums and Ixias

3½-inch pots. The latter is the better way. Plants potted up in September from rooted runners and overwintered in a cold frame make fine material the following spring. While the above have for years constituted the most important of the Memorial day plants, the alternantheras echeverias, coleuses, heliotropes, sedums, lobelias, pot roses, ageratums, in fact, practically all of our bedding plants are in demand, and well grown stock of any of these is bound to be sold at good prices.

POUGHKEEPSIE, N. Y.—The Saltford Flower Shop had the decorations at the spring concert of the Orpheus club which were very elaborate.

RICHMOND, N. Y.—The business of the late George Henry, who died in January of this year, is being carried on by his nephew, James B. Henry.

CLINTON, IA.—Andrew Bather reports fine business at his large new store, 235 Fifth street. The demand for seasonable stock is also good at the greenhouses.

THE RETAIL TRADE

THE fad for decorating automobiles which is greatly on the increase in the east, should be encouraged in every way by retailers. The automobile has in some cases hurt the flower business by taking people from society functions indoors, and if it can now be made to turn a wheel in the other direction, so much the better.

The Dragon Vase.

The dragon vase shown in the accompanying illustration is one of many superb specimens of bronze ware shown in the Jackson boulevard store of the Fleischman Floral Co., Chicago. It is five feet high without the flowers, and the effect of the yellow snapdragon and ixias which were shown in it when the photograph was taken was exceedingly good. These vases are shown in a great variety of shapes and they give a tone to the store that cannot be obtained from cheaper, showier vases and other receptacles for flowers and plants. We have referred on other occasions to the splendid specimens of hammered brass, china and other ware always to be seen here and they are costly but good adjuncts to any first-rate store. Even if sales of them are not very frequently made they show a good profit when they are sold and are a standing advertisement for the store.

Wreath of Croton Leaves and Sweet Peas.

SEE SUPPLEMENT WITH THIS ISSUE.

There is a richness of tinting and a bold outline to the leaves of some of the better varieties of crotons that render them especially adaptable to the larger and more striking wreaths and other forms of decoration. Their long lasting quality is also desirable in work of this description and the combination of the two is seldom found in the same plant. For instance, there is the old Cissus discolor, now being used to some extent for wreaths. The color is very rich and beautiful while the vine-like sprays and tendrils are very attractive and make artistic work, but the leaves are so soft and easily bruised and last so short a time out of water that their use cannot be said to be altogether satisfactory. Leucothoe, magnolia, galax and other greens there are in plenty, but they are too somber when used alone and have not the bright tints of the crotons, in which there is a wonderful display of color.

The beauty and utility of sweet peas are too well known to need more than a passing allusion, while the peas and crotons in combination are very rich and satisfying when the colors are well chosen. Wreaths made from these flowers and foliage are especially suitable for sending away long distances, as they come out looking fresh and attractive after a railway journey that would be fatal to the appearance of more fragile and evanescent foliage and flowers. They are in some sense a novelty to many persons, as their use has not been pushed to the extent that the other foliage has. Large funeral wreaths of croton and cycas leaves artistically combined have a bold and striking appearance, while Easter lilies and crotons is another

PARIS FLOWER MARKET.
Showing the Covered Section.

fine combination. Croton leaves alone, in variety, some of the broad leaved kinds and others of the very narrow, wavy class, are occasionally seen, and there are many other ways in which they can be used that will at once occur to the retailer who has this class of work to do.

May Flowers in the Chicago Stores.

With stock very plentiful, of excellent quality, cheap and extremely varied and trade very good for the time of year, Chicago retailers should be happy. In most cases business has picked up quite a little since earlier in the month and some of the better class stores are handling a very large amount of work for funerals, society functions and early weddings. Splendid quality American Beauty roses at $10 per 100 may not suit the grower but it is certainly an advantage to the retailer who has good work on hand to be able to fill his orders with this class of stock at so low a figure. Roses of all kinds were seldom better than now, the cool weather having kept the stamina in the plants, resulting in fine stems and flowers of excellent color.

One of the surprises of the week was some fine Mme. Chatenay at Harry Rowe's; these flowers show what a superb rose this is at its best and it is at its best now. From a somewhat lengthened observation of this rose we are inclined to the opinion that if a moderate shade was used from now on and the houses run with full air on as far as possible there would be finer flowers and better foliage. Mr. Rowe intends to take advantage of the summer quietness and fix over his store, putting in new fittings and a new floor. The material he has chosen for the latter is a German invention, patented here, and consists of cork, marble dust and some chemical substance that gives a fine finished floor, yet silent, waterproof and attractive in appearance. It is made by the Marbleized Plate Co., Cincinnati, O. Stock of all kinds is very fine here and Mr. Rowe reports trade good. We noted some particularly attractive flower boxes here with orchids and other flowers very naturally painted on the covers.

O. J. Friedman's new store is very attractive now. In the center and at other prominent positions are some remarkably fine kentias, beautifully finished, large healthy specimens of great value and attractiveness. The cut flower stock here is very varied and good. Gladiolius The Bride, Childsi, and a number of fine Gandavensis hybrids were specially noted, also some very beautiful pink antirrhinums. The latter we saw in one or two other of the best stores and it is handled, we believe, by Miss Tonner on the market. It is quite the best thing in snapdragons to date and a superb variety well grown and carefully shipped. Pansies, fine lilac, orchids and irises were also remarkably good here, while the reports as to business are satisfactory. John Mangel is still busy fixing over his store and everybody is kept on the jump handling good funeral and other orders, the usual June cut flower stock being displayed.

The Fleischman Floral Co. is kept busy with work of a very varied character, wedding, funeral and dinner orders being plentiful. The best varieties of sweet peas, orchids, lily of the valley and novelties are handled here in large quantities and a number of fine bouquets, a large floral pillow and several good table decorations were among the orders at the end of last week. A. Lange is still making good with his dollar boxes of flowers and these net him many orders of higher price owing to the satisfaction they give to his customers. The store is at all times busy, the staff being large and capable. In all the other down-town retail stores there is an abundance of fine stock shown and judging by appearances, the people inside are not idle.

Speaking generally there seems to be no shortage in any line, though carnations are not as plentiful as other flowers. Richmond roses are still very fine in color and stem. Killarney is not quite as good as it was and good Bride and Bridesmaid are not very plentiful. Mrs. Potter Palmer is showing up again in fine style, as is Mrs. Marshall Field and Chatenay. White stocks are fragrant and useful in many kinds of decoration. Sweet peas are perhaps the most expensive flowers on the market, yet they are being disposed of in prodigious quantities and great variety. The modern sweet pea is certainly a great institution and has come to stay. The Spencer varieties, under any other name, look as fine if they don't all smell as sweet and are probably the most popular flower in existence just now. Good mignonette is seen, peonies are coming along though they are still cut tight, while daisies, Spanish irises, tulips, narcissi, marigolds and lilac help to round out a fine supply of really good and useful flowers.

The Modern Sweet Pea—II.

THE SPENCER TYPE.

The Spencer type of the sweet pea is worth an article. Here is where we are now in the evolution of this flower. But few of the varieties have as yet been put within the reach of the American flower-loving public, although the English fanciers are all agog over them. Still, their advent must be announced, and another season will put a good list of them into the American catalogues. And they mark a genuine epoch in the development and popularity of this flower. Their general form is distinct. Nature seems to have reserved some happy secret of crossing by which we now get this new advance. It is remarkable that such a simultaneous break from the previous grandiflora type should occur on both sides of the Atlantic. Events seem to have their appointed time in the floral world as well as in other things.

The Spencer type has not come from patient selection, but it will furnish a grand opportunity for selection. Henry Eckford's prophetic vision was shown in his choice of this flower for special work. The Spencer type shows what nature has locked up in its benignant bosom. I used to think of Mr. Eckford as a high priest who entered the holy place. If an astronomer ought to be devout, the man who enters the secret place of the hybridizing art ought also to be devout. He cannot possibly know what he will get. But it is a thrilling moment when he finds that nature has rewarded him with a new color, or has let loose another measure of its pent-up life and energy.

DESCRIPTIVE NAME WANTED.

Some early harbinger of this new Spencer type was called orchid-flowered. And it seems rather constricted now to put the name of Spencer on all the varieties. We need some guiding divinity who shall decree a more botanical term in such cases. Still, it is provisionally convenient for the seed trade to tack on such a label. I thought when Mr. Eckford gave us the grandiflora type with its graceful hooded form there was nothing more to do but add more blossoms to the stem. But not only now have we an increased size of standard, but nature has lavishly added such a surplus of blossom fabric that it has to dispose itself in wavy form, and the wings correspond with the standard in this respect. I am glad to have Mr. Morse say, "The best hooded or shell-shaped form will always be popular, and we need not imagine that the Spencer types will wholly supersede them."

SAVE THE HISTORICAL NAMES.

Now that this new type has come to us I want to protest against making a billboard of it to advertise people's names that have no special interest to the general public. We pardoned Mr. Eckford for using his novelties to call the roll of his entire family, but Heaven save us from carrying this thing very much further. I seriously question the good taste of it. A little of it has a complimentary fitness. And now that the new Spencer race has got to be named I am glad that those most prominently interested on the American side advocate retaining the previous names, and when they break into Spencer form simply add the term Spencer, such as Apple Blossom Spencer, Lovely Spencer, Ramona Spencer, etc. Indeed, I have mourned to think we were going to lose the early historical names of this flower. Certainly we ought never to discard such names as Painted Lady and Butterfly. They became ingrained in the affection of all who years ago loved the sweet pea.

"TOO MUCH ALIKE" VARIETIES.

We see how jealously we need to guard nomenclature when the color represented by John Ingman is bracketed in the English year book with six other names as "too much alike." Here are seven new names: John Ingman, George Herbert, E. J. Castle, Rosy Morn, Rosie Sydenham, Mrs. W. King and Phyllis Unwin; and Robt. Sydenham finds it has been given still other names: John Watson, Senr., Glory of St. Albans, Paradise Carmine and King Alphonso. So, too, the Countess of Spencer is almost if not quite reproduced in Paradise, Enchantress, Olive Bolton and Codsall Rose. And, again, Mrs. Collier, Mrs. Felton, Dora Cowper, Ceres and Yellow Dorothy Eckford are bracketed together. Still, this is an encouraging symptom of the enthusiasm felt over the Spencer type. Our American climate will curb somewhat this fine-drawn distinction, and our growers and seedsmen will not give their endorsement to such excess of enthusiasm.

THE BEST IN VARIOUS COLORS.

Of course we heartily welcome any advance that is made on the standard colors. We want the best white Spencer, and the best primrose Spencer, and the best lavender Spencer, and so on. Sydenham puts Mrs. Chas. Foster ahead of Lady Grisel Hamilton. We shall have this year King Edward VII Spencer. Mrs. Collier was given an award of merit by the National Sweet Pea Society as an improved yellow, different names being given to it by various exhibitors, but Mr. Sydenham says that he personally does not think it much of an improvement on Hon. Mrs. Kenyon. Morse now puts out a Flora Norton, Spencer, and I am much interested to see if this beautiful new blue has reached the Spencer size and form. Navy Blue is certainly improved in color in Lord Nelson (brilliant blue). For improved orange,

NEW SWEET PEA MRS. ROUTZAHN SPENCER.

Helen Lewis came out in fine form, but dropped back in size. I much prefer Henry Eckford in color, and if it can be carried up to Spencer type it will be magnificent.

The pink shades will be numerous, and we shall have grand Spencer types. Lovely Spencer has come and I hope Prima Donna will come soon. Mrs. Routzahn Spencer gives us a novelty, but as I looked over a good many of this variety last summer I did not feel that it would spring into great popularity. The apricot shadings on primrose are not as pretty as rose and carmine. But it is a fine flower in size. Phenomenal I like exceedingly, and it approximates to a Spencer, but Mr. Morse doesn't claim it as such. I wish it might be made into a full Butterfly Spencer. The striped and flaked varieties are taking readily to the Spencer type. Aurora, on which I received a certificate from the Massachusetts Horticultural Society as its first exhibitor, comes out now as a Spencer. Picotee edges are beautiful things to work for either in carmine or blue, and the English fanciers now describe several such introductions, on both white and primrose grounds. The National Sweet Pea Society has what it terms an audit, reporting the points scored by the varieties competing for a high place. Helen Pierce, the very unique marbled blue variety, jumped from 33 points to 97 in 1907; Mrs. Collier (yellow) took a big leap forward; Black Knight held a steady position; Gladys Unwin fell away somewhat; Miss Wilmott dropped from 72 points to 32; Nora Unwin scored 81 points; Paradise, Frank Dolby, Mrs. Hardcastle Sykes, Henry Eckford and Mrs. Alfred Watkins came forward with a rush. Nora Unwin displaced Dorothy Eckford, but Mr. Sydenham thinks Etta Dyke superior to Nora Unwin.

THE CONCERT OF NATIONS.

In Great Britain the sweet pea men are doing a good deal of visiting among the special growers. I see Mr. Burpee's face among the groups of these visitors. A kind of itinerant judging is carried on in this way, and the men who are doing first-class work have this fine compliment paid to them. And still our English cousins are abusing their freedom in being in a hurry to tack on a new name to about everything they get. George Gordon writes: "The question of precedence in naming is always beset with some difficulty and, having regard to the increased attention that is being paid to the creation of new forms of the sweet pea, this difficulty is not likely to greatly diminish for some years hence. It has, however, been materially lessened by the course taken by the society from the first of recognizing, in making awards to novelties shown under several names, the name first given." Chas. Foster has conducted the sweet pea trial at University College gardens, Reading, under the auspices of the national society. I just want to say in closing that the advent of the Spencer type has brought with it a wail about sports and mixed stocks. Evidently in carrying up this lovely flower to its latest type we have carried it away from its old tried and trusty habit of reproducing itself true from seed. The Spencer hybrid stock will probably display many a coquettish art of this kind and the seedsman must not be wholly blamed. We may depend upon it the English fanciers will say all that needs to be said about this.

W. T. HUTCHINS.

[For the first installment of this illustrated article see our issue of May 8, page 741.—ED.]

NEW SWEET PEA ASTA OHN SPENCER.

Greenhouse Output.

ED. AMERICAN FLORIST:—

How much should the annual output amount to from a greenhouse with 35,000 feet of glass when mostly roses and carnations are raised, some bedding stock and very few bulbs forced? The business is strictly wholesale. What should be the proper expense for fuel and help, including working foreman? V. P.

Regarding the amount of the annual output from 35,000 square feet of glass as asked by "V. P.," there is a very uncertain element to contend with, and a very wide difference between a very successful management and only a fair or mediocre management. There are also often reasons why, with the best quality of management by the most successful men, the product will fall short of expectations; in short, there is no absolute certainty of what the output will realize from any range of greenhouses, and I know of no standard by which such a range as "V. P.'s" can be estimated to yield, as so much depends upon the market as to its value, also upon the number of plants and flowers produced. Some seasons also will very materially effect the crop of flowers produced, so as to greatly reduce the quantity and as a result the net returns, for any given amount of glass. And there seems to be a general depression of prices for almost all kinds of cut flowers from year to year, which, of course, will reduce the value of the output from any range of glass in proportion.

Years ago we used to think $1 per square foot of glass a fair return for the money invested. This was when labor, coal and all other supplies were much cheaper than the present time. Now, with practically every item of expense greatly increased, the produce is gradually reducing in price, which means that the net returns in a great many cases do not balance at the end of the year. Within a radius of 20 miles from where this is written the downward depression has closed up quite a number of greenhouses simply because the owners could not realize enough money from their output to meet their running expenses and many of these places were run as economically as possible by hard working owners and their employes. J. N. MAY.

Notes on Aquatics.

The planting season, with all its rush and worry, is fully upon us and every branch of gardening is alive and active, for the season is short. To have everything previously planned and arranged and in readiness when the season opens saves much time and anxiety. As this is a vast country, the seasons in some sections are early and in others tardy, so that any given date when to plant is not applicable to all alike. This is not an exceptional season, though, on the whole, it is late. We have experienced warm, spring-like days, followed by chilly, cold and freezing weather, demonstrating the fact that we have not arrived at a period of settled warm weather, and it has been imprudent to plant choice stock, especially water-lilies. It may be asked if hardy water-lilies suffer by early transplanting. They do. Water-lilies commence to grow early in April, or very soon after the first heralds of spring, but this early growth is more or less elusive. The first signs of growth are the new leaves apparently—but these same leaves have been on the plants all winter and are but attracted to the surface by solar action; for some time elapses after their appearance before new roots are visible, and it is during this period, after an apparent growth or stimulation, that early transplanting and changes between one section and another that hardy water-lilies receive a check and fail to grow. Some varieties are more susceptible than others, and our native varieties are the first to suffer.

Hardy nymphæas may be successfully planted from now on until August. Nelumbiums or lotus are even later than nymphæas in starting, and these will show a larger percentage of failures than nymphæas from too early transplanting. After the tubers are dug they will deteriorate at once if conditions are such that they do not start into active growth. As to the best varieties of hardy water-lilies to plant: What may be styled best are not so in all places. For small ponds, pools and the like, the small and medium varieties are commendable, and few if any of the native varieties should be used. Where a variety of plants is desired, but one of a kind should be planted, but the closer we get to nature, and plant but one or two varieties, the more pleasing. But each can choose and plant according to his own will. One objection to planting any of the native varieties in small ponds is the fact that they all grow very freely and all produce seed freely, which soon takes full possession of the pond to the exclusion of all choice or less vigorous growers. But we must not forget that there is beauty in variety, and where a pond is large enough the general public demand variety.

For artificial ponds a box, say, three feet square and one foot deep will answer the purpose for planting in; this is far better than tubs, as the latter do not hold sufficient soil to carry one plant for the season, unless such varieties as Nymphæa pygmea, N. pygmea helvola and N. Laydeckeri rosea are grown. The soil should be moderately rich, a good turfy loam enriched with thoroughly rotted stable manure or cow or sheep manure. The dormant roots of most varieties are small, and those not familiar with the different species or hybrids should not despise the small roots that may be received when purchased, for, although the pond may look sparsely planted, yet other things being equal, the small roots will give fine results. For natural pools, ponds, etc., there is difficulty in planting on account of spring freshets that are liable to occur and the water being too deep to allow of planting. Under such conditions new plants may be potted or planted in small boxes, where they may make considerable growth and later on these plants may be turned out of their receptacles and, with the earth and roots in a mass, dropped in the water where wanted to grow. The weight of the soil will steady the plant and keep it in position until anchored by new roots. The plants in pots or tubs or small boxes may be placed in shallow water or in tubs or other receptacles temporarily.

It is too early to plant the tender nymphæas, but these should be started if not already done, in a greenhouse or some warm, light place. These can be grown on in 4-inch or 5-inch pots and later transferred to summer quarters, planting out about the first week in June. Our seasons are none too long for these useful nymphæas, and more especially the tender night-blooming varieties which are of great service to the florist. These should be pushed a little at the commencement of the season and a higher temperature maintained; they delight and flourish in a water-temperature of 75°, but should at all times have full sunshine and abundance of fresh air. The large flowering varieties, such as Nymphæa Bissettii, N. dentata, N. magnifica, N. Geo. Huster, N. O'Marana and N. Frank Trelease, are best for cutting purposes, though all are useful, especially the reds. Other aquatic plants are useful, but should be planted with discretion, as most of the floating plants are free growers and liable to take possession of the pond at the expense of more desirable kinds.

W. T.

LEWISTON, PA.—Thompson Bros. are beautifying the grounds around their mill, an example worthy of being followed by others.

THE ROSE.

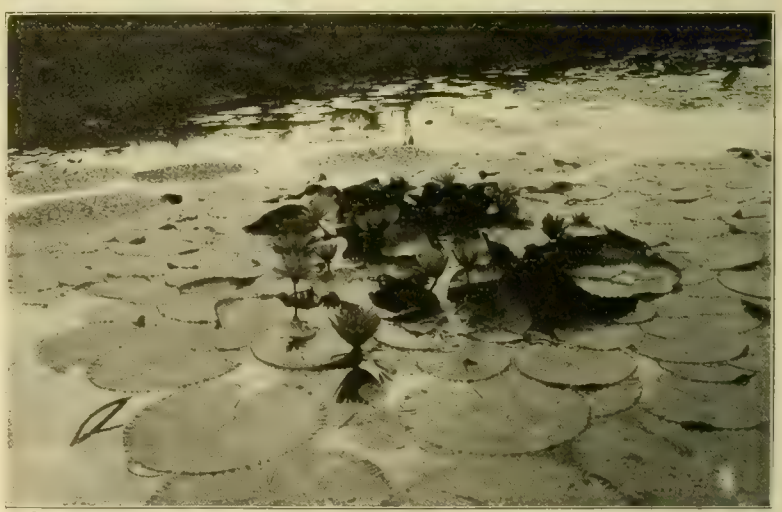
Roses from Cuttings.

ED. AMERICAN FLORIST:—

Which kinds of roses can be easily grown from cuttings and what is the proper way and time to take the cuttings? A BEGINNER.

All the roses usually grown in a commercial way, for plants or cut flowers, may easily be raised from cuttings, the methods having been repeatedly given in THE FLORIST. There is probably no rose in existence that could not be so grown, in fact, everything depending upon the right kind of wood being used and the proper treatment being given. Many growers prefer blind wood for propagating, that is, wood that is of fair strength but which has not flowered. But this, we think, is largely a matter of fancy. When we have had to work up stock of a variety that is scarce we have used wood of all kinds, short, stubby shoots where flowers have been cut from, growth below flowers and blind wood. All have given good results, but the wood we should choose would be that of medium size according to the variety and half ripened—neither young and green or old and hard—and bearing good leaves. Any time after February 1 is a good one to start, the earlier the better. For cuttings take two or three eyes and cut cleanly with a keen knife. Remove the lower leaf and insert the cuttings half their depth in the sand. This should be kept at a temperature of about 60° and constantly moist, the air of the house being about 5° less. In the majority of cases it is sufficient to encase the bench on which the sand is in linen, below, thus confining the heat to the bed and preventing its quick escape to the house, but this, of course, is a matter of individual circumstances—the point is to make the difference, which encourages root action at first rather than leaf growth. Keep the sand very moist at all times, see that the cuttings are very firmly inserted and during the time the roots are forming shade the heads should the weather prove bright.

G.



TYPICAL PLANT OF NYMPHÆA.

American Beauty in the South.

The illustration herewith is a perfect refutation of the statement sometimes made that American Beauty roses cannot be as well grown in the south as elsewhere. The beautiful flowers there depicted were grown by the Metairie Ridge Nursery Co. of New Orleans, this firm frequently cutting this rose with 9-12 foot stems and handsome well colored flowers. The plants that the flowers illustrated were cut from are three-year-olds and planted on benches but transferred to solid beds later, two years ago. This firm has been very successful with American Beauty and other roses on solid beds and now intends to plant the whole of its rose stock of all varieties this way, being confident that it is the better plan.

This suitability of solid beds for roses in the warm southern climate of New Orleans is quite in line with what northern growers are doing for summer roses. Acres of Kaiserin, American Beauty and others are grown this way in the middle west, and even in Canada the solid bed is becoming increasingly popular. It holds more soil, keeps the roots cooler in summer, and is in every way more satisfactory in hot weather than the high and dry wooden bench. But no argument either for or against can be nearly as convincing as these splendid flowers; they are not specially selected or cut for exhibition but are simply fine examples of the superior class of stock that Harry Papworth grows under the conditions referred to and as such they speak for themselves. They prove plainly that, given good culture, American Beauty can be as well grown in the south as in any other part of the country and are a great credit to all concerned.

Some of our Problems as Rose Growers.

A paper prepared by Prof. L. C. Corbett of the Bureau of Agriculture, Washington, D. C., for the annual meeting of the American Rose Society, March 16-18, 1909, held at Buffalo, N. Y.

Heat, light, water and soil are the big four with which the plant grower be he farmer, gardener or florist, is concerned. In nature, all of these factors are more or less in the class of variables. The farmer and gardener working in the open and dependent upon natural sources for heat, light, moisture and soil are playing at a game of chance. The two factors that it is within his power to modify are moisture and soil. By irrigation the water content of the soil can be regulated. By the judicious use of fertilizers and manures the food supply of the plant can be modified. Aside from these two alternatives the farmers and gardeners are totally dependent upon nature's kind provisions. The florist carries the cultivation of plants one step further from the field of chance by safeguarding the temperature factor.

REFLECTION AND REFRACTION.

The florist should be able to control three of the determining factors in plant growth—viz., heat, moisture and soil. His variable should be confined to the light factor alone. Our modern greenhouses have been well planned so as to cut out as little of this as possible by the use of light framework and large glass. The great weakness in our present scheme of greenhouse construction lies in the total disregard of the laws of reflection and refraction. The fact that a glass roof can be so constructed that it will allow a very large percentage of light and heat rays of the sun to penetrate the house at certain hours of the day and to reflect or throw off a large percentage of the same rays at other hours of the day has, it would appear, been given altogether too little consideration both by florists, physiologists and physicists. This is one of the respects in which practice is far behind.

The available knowledge on this phase of construction seems to have been almost entirely ignored by the practical florist and greenhouse builder. Much thought is spent in designing gutters, sash bars and ventilating apparatus, while the pitch of the roof and the direction of the ridge, factors which directly measure the value of the house, are entirely ignored. It is, therefore, evident that the florist may, in a measure at least, influence the light factor. While he cannot increase or decrease the actual hours of sunshine, he can, by properly planning his houses, afford his plants the maximum benefit of the light provided in nature. Researches which have been conducted along this line clearly indicate the value of light as a factor in plant growth. Prolonging the light period by artificial means as has been demonstrated by Bailey, Rane, the writer and others, decidedly hastens growth.

AMERICAN BEAUTY ROSES IN THE SOUTH.

HEAT AND MOISTURE.

The temperature and moisture requirements of plants are given far more consideration than light by florists, but it is surprising to note the great lack of available general information upon so simple a matter of properly providing for the requisite amount of radiation in a greenhouse for a particular purpose in a definite locality. Too often this important matter is left to the local plumber, who has no idea of the problem involved, or how to solve it. Yet heat is the greatest charge against the growing account. Moisture is coin of the realm to the gardener and the florist; both deal in products the chief constituent of which is water. A pure and adequate water supply intelligently used is a determining factor in garden and floral undertakings.

SOIL.

Now we come to the soil, an absolute essential to the success of every commercial agricultural enterprise. The source of the livelihood and wealth of the major portion of the earth's inhabitants, yet what shall we say of it, if it is so complex? If we consider its derivation we find the rocks yielding to the action of frost, water and air to supply the mineral matter, vegetation springs up to ripen and decay, and thus contribute humus, another factor as important as the mineral. The decomposition of organic matter in the soil sets to work other forces which

are no less important than the primary constituents themselves. The combination of the organic and the mineral substances creates a condition which makes it possible for the many low forms of animal and plant life to exist in this medium we call soil. These low forms are some of them helps and some of them hindrances to the plant grower. The introduction of this host of tenants complicates things and renders what was formerly thought to be simply a chemical problem, a very intricate combined chemical and bacteriological puzzle.

NITROGEN AND BACTERIA.

Some aspects of this puzzle are yet so new and difficult that no prediction dare be made at this time regarding their importance to agriculture. Enough has been determined, however, to prove that an important lead has been struck. The value of nitrogen gathering bacteria is sufficient evidence of the richness of this new field. Knowledge of the way in which nitrogen gathering bacteria work gives us a clue to the solution of one of the most difficult problems in the maintenance of soil fertility. It explains the division of labor in nature and gives a reason for crop rotation. The same laws that govern the rotation of crops in field operations come into play to our advantage in the soil heap. The compost heap should consist of organic material in the form of soda and manure, so combined with mineral matter in the form of loam and clay as to enable decomposition and nitrification to take place rapidly.

The florist's business is not merely to place available food in a natural soil but to combine the several constituents for fertile soil in such a manner as to secure that mechanical condition and food supply calculated to best meet the requirements of the particular crop under consideration. In this respect the florist has an advantage again over the gardener and the farmer. But can anyone describe the ideal soil for any particular crop? Can anyone say that a soil consisting of 10 per cent organic matter, 30 per cent clay, 40 per cent loam and 20 per cent sand is an ideal soil for roses for carnations, for lettuce or for any other crop? I think not. Our knowledge upon these important points is of the empirical kind. An experienced gardener makes up a potting soil, he mixes it with his hands and if it appears too heavy he adds sand, if not sufficiently fibrous, he adds leaf mould or peat. Just why he adds these substances he cannot tell neither can he describe to you the exact consistency and character of his ideal rose soil, yet his knowledge of the requirements of a particular crop leads him to make the changes above noted to bring the soil to his ideal of the requirements for the particular crop.

SOIL PROPORTIONS.

Can this empirical knowledge or idea be reduced to exact terms? Is the exact amount of available plant food and the proportion of sand, clay and humus in this ideal soil measurable? If it is we can obtain a basis for exact experiments to determine whether or not the gardener's judgment of an ideal soil for a particular crop is correct. If these factors are not measureable we are as much at sea in our experimental work as is the gardener. It is all simply a matter of judgment. Up to the present I am sorry to say that the whole matter is largely dependent upon experiences and judgment. Soils differ so in composition and physical properties even when, so-called, like materials are used in their make up, and we know so little regarding the influence of bacterial action which is consistently working in the soil that it is practically impossible in the present state of our knowledge to reduce the soil factor to exact measure.

A much more accurate idea of the relative influence of heat, light, water and soil can be secured under greenhouse conditions than in the open, but even here, while we know infinitely more than did the early gardeners, our knowledge is far from exact. It may be that exact data will never be possible, but certain it is that the knowledge that is so rapidly accumulating will clear up many dark places and we hope soon put us in possession of facts to replace empiricism. Until more knowledge is available we must continue, each to determine for himself under his own environment, the most profitable combination for the compost and the varieties best suited to his soil and his market. "There is no royal road to knowledge," and intelligent painstaking care is the only way to spell success.

To Be Done Now.

IN THE GREENHOUSES

Repot the earliest plants of Begonia Gloire de Lorraine and water very carefully until re-established.

Keep the young stock of bouvardias closely pinched and repot or plant out the old stock specimens.

Maintain a moist atmosphere around the plants of Nephrolepis Whitmani and other heavily crested forms, but avoid watering them overhead.

Sow Primula Sinensis, P. obconica and P. Forbesi in a shady house and watch the watering carefully, avoiding a dry or over-moist condition of the soil in the pans.

Take the opportunity offered when the bedding stock goes out to thoroughly clean the houses before puting in other stock.

Repot young rose stock if the benches are not ready and there is a risk of the plants becoming starved in the pots.

Too moist an atmosphere in the house where cattleyas are flowering causes the flowers to spot and keep poorly.

Before placing azaleas outside clip them into shape a little if they need this attention.

OUTDOORS

Take careful note of the date of flowering of the bedding tulips and especially note those that flower simultaneously for future reference.

Use the hoe frequently among all advancing crops, as keeping the surface stirred is one of the greatest aids to rapid growth.

Do not cut over the growth of bulbous plants after flowering if it can possibly be avoided; they should be allowed to finish their growth naturally.

Where liquid manure can be spared it will be of great assistance now to old and well established herbaceous plants, such as irises, campanulas, peonies and others.

Trim up the edges of walks and flower borders before the soil gets hard and dry. Use a line and do this work carefully.

Kill the weeds when they are young and thus prevent seeding, at the same time assisting the crops by lightening the surface soil.

A few bits of brush either laid on the soil or stuck into it among annuals protects them from cold winds and will form a support later as this becomes necessary.

Soot, freely sprinkled among the rows of young onion plants, is one of the best preventives of mildew and onion fly.

A few late sown annuals in the front of the herbaceous border will brighten up this in late summer.

INTERIOR OF THE BURDETT CO.'S STORE, SEATTLE, WASH.

Maintain a very moist atmosphere about the gardenias by spraying after the flowers are cut and daily about the young stock.

Fuchsias should be shifted into their flowering pots. Pot firmly and place the plants in a very lightly shaded, well ventilated house.

If the pots are needed callas may be turned out and the balls of soil stood closely together outside.

Take up the poinsettias and start them going for cuttings which will soon be needed.

Water Supply.

While written primarily for the instruction of farmers, the following note, taken from the Country Gentleman, will doubtless prove of interest to those who are contemplating alterations or additions to their means of water supply:

There are two kinds of tube wells—artesian and Abyssinian. Artesian wells are those in which water rises to or above the surface. Abyssinian wells are generally driven. The water must be drawn by pumping. Wells of either kind may have to be bored or driven, according to the materials through which the tube must pass. It is, of course, true that the deeper the well the greater the cost, and that bored wells cost much more than driven. Wells are often driven to great depths, one of 6,571 feet being recorded, but it should be noted that, unless water rises of its own accord to certain heights, the cost of pumping will be too great for the water obtained.

For most places in the humid regions Abyssinian wells will serve all needs, being inexpensive to put down and reliable in operation; occasionally, however, an artesian or flowing well may be encountered, or boring through rock strata may be necessary. In the arid regions and mountainous districts deep-driven or bored wells are generally the rule. In the case of deep-driven or bored wells a professional well-borer should be employed, and a hydraulic expert would best precede him in determining where to locate the well. Scott, an English authority, cautions that "where rock has to be passed, the expense is more and water uncertain, unless the geological conditions of the district are well understood." A not too deep-driven Abyssinian well is cheap and easy to put down and a free-flowing artesian of not too great depth is very desirable. The deep and bored wells should be resorted to only when necessity demands.

The next important consideration is the means of obtaining and conveying the water. As mentioned before, the natural flow or gravity system of water supply is best, where possible, because there is no expensive machinery to install, and to get out of order when it is especially needed. This system needs only sufficient natural fall to carry the water to the distributing tank or reservoir. Animal power is often used for pumping and raising water. A cheap and steady machine for delivering water is the hydraulic ram, which is operated by a minimum fall of 18 inches in the water flow. It has no complicated machinery to get out of order, needs no constant attention, will last for several years, gives a regular supply of water, and will force it a distance of 1,000 feet or more; the ram is used in connection with surface water. Another not expensive machine is the windmill.

Water power is also used for pumping, the over-shot wheel or water-turbine being the machine ordinarily employed. This form of power is not costly and is quite constant; it should be more used than it is at present. The prime requisite here is, of course, a regular supply of water from a pond or stream. But to keep up the water-supply independent of the weather conditions an engine of some sort, or an electric motor is valuable. The first cost is apt to be great, and inexperienced persons may buy machines which cannot operate economically, or which are unsuited for their intended use; again, the capacity of the plant may be greater or less than is needed. Therefore, when one intends to install a pumping plant, especially if it is to be rather costly, the advice of a hydraulic expert should be obtained. Among the engines, the hot-air is one of the least expensive, most dependable and safest. Gas and gasoline engines are also widely used to good advantage, while steam engines must have a bulky and fussy-to-handle fuel and need more or less attention. The electric motor, where power is cheap enough, is easy to run and does rapid, steady work. Where there is sufficient water power, electricity is a very desirable, economical, clean and simple way of doing much of the work.

Water may be stored in open reservoirs, tanks or cisterns, constructed according to needs or the local conditions, of earth, wood, iron, brick, concrete, etc. Reservoirs and tanks should be situated high enough so that the water may run by gravity to all parts of the establishment. A new type of air pressure tank is placed in a cellar and forces the water wherever needed by compressed air. Cisterns constructed of brick or cement are useful for catching water from the roofs of buildings; they should be made with closed tops to keep out dirt and insects.

Propagation of Hyacinths in Holland.

The hyacinth does not naturally form a large number of new bulbs, but only a few offsets occasionally develop. When a bulb is broken at its base, or is in some way injured, however, a number of buds or bulbils appear about the wound. It was the observance of this fact that led to intentional wounding or cutting of the bulbs on the part of the cultivator with a view to increasing his stock. In the propagation of hyacinths on a Dutch farm, by what is known as the notching or cross-cut system, the base of the bulb is notched or scooped out. Immediately after the bulb is scored in this manner, the wounds are exposed so as to dry them. In former times they were exposed to the sun's rays, but it is the practice now to apply some absorbent material, such as ash or lime, which prevents the exudation of sap.

It is usual to set apart a portion of a bulb store for use as a "nurse-room," in which the formation of bulbils takes place and their development continues until they are ready for planting. A series of trays is arranged from floor to ceiling so that the propagator can conveniently examine the bulbs from time to time. These trays are formed very much after the manner of those in which potatoes are stored for seed purposes. The bottom is constructed of laths, and the openings allow of a free circulation of air. The bulbs are cut in June, after which they are placed directly into the trays and kept in a high temperature. Soon afterwards there appears in every wound a number of tiny buds or bulbils. By this system flowering bulbs can be obtained one year earlier than if the base of the bulb were hollowed. This is because, fewer being formed, they receive more nourishment individually than in the case of those obtained by the other treatment. In October or November the bulbils are detached and planted in ground which is liberally dressed with cow-dung in the preceding year. In the following season the bulbs do not flower, but merely produce foliage. They are lifted with the other bulbs in June, placed in the bulb stores and spread out on laths to dry. When this is accomplished they are cleaned of the foliage and loose leaf scales, and stored in a well-ventilated room until planting time in the following autumn. As soon as they are of a proper flowering size, which takes usually three years, they are ready for the market. Before they are sold each bulb is inspected. Those that are suitable are packed in paper bags or cases amongst husks of buckwheat.

Haarlem, the city of the counts of old Holland, as is well known, has long been occupied with raising flowering bulbs, and every field and meadow about the city is now cultivated as a bulb farm. It is the narrow strip of sandy ground, situated immediately behind the dunes, that has proved exceptionally suitable for such culture. Tulips, and particularly narcissi, can be propagated and grown for commercial purposes in many parts of the British Isles, in the Scilly Islands and in Ireland, but in the case of hyacinths the whole of the commercial output, for Europe at the least, is raised in Holland.

The bulb fields during the latter part of April always present a glorious sight, but a visit to the district in autumn is not less interesting. Along the banks of the canals and rivers, strips of land are covered with bulbous plants. The country from Leiden to Beverwyk, 12 miles north of Haarlem, is one continuous bulb farm 30 miles in length. Even around The Hague many orchards have been destroyed, the trees grubbed up and bulbs planted in their stead. Until about 1860 bulb cultivation in Holland was limited to the immediate neighborhood of Haarlem, the country beyond being either meadow or orchard land, but bulb culture has proved to be more profitable. The farmer, therefore, became a bulb grower, and his sons soon adapted themselves to a commercial life. They learned foreign languages and traveled in other countries for the purpose of disposing of their stocks.—Gardeners' Chronicle.

Boiler Insurance.

The Boiler Inspection and Insurance Co. of Canada sent us an illustrated pamphlet describing the explosion of the boilers at Miller & Sons, Bracondale, Ont., under circumstances already reported in our columns. The illustrations plainly show the terrific force of the explosion and the great damage resulting, one portion of a boiler being thrown nearly one quarter of a mile, though it weighed one ton. It is little short of miraculous that no one was injured when the fact of 23 employes being in the greenhouses is taken into consideration. Although $50,000 damage was done Messrs. Miller carried no insurance and the loss to them of the houses, crops and loss of business is very disheartening. Had the boilers been inspected and insured this would have been at least alleviated somewhat and it shows how necessary it is to be beforehand with this, for no one can tell how soon it may be their turn. The company mentioned above has been in business in Toronto for 34 years, being the pioneer in this kind of insurance, and issues policies covering all classes of risks from boiler explosions.

OBITUARY.

Mrs. S. S. Skidelsky.

Dr. Rachel S. Skidelsky, wife of S. S. Skidelsky, the well known commercial traveler and senior member of the firm of Skidelsky & Irwin, seedsmen of Philadelphia, died on May 12 of pneumonia. Mrs. Skidelsky was a wonderfully bright and capable woman. She was a graduate of the Woman's medical college of Philadelphia and rose rapidly to prominence in her profession, being a very active member of the County Medical society. She was also president of the Hebrew Ladies' Emergency society, an active member of the Civic club, the Mothers' club, the Council of Jewish women and Keneseth Israel congregation. Mrs. Skidelsky was of a charming personality and very popular with all who knew her. K.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50 Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:

A. F. FAULKNER, 1133 Broadway, New York.

ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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Personal.

J. D. Carmody, of Posey county, Ind., who has spent the greater part of the winter in Mexico, returned last week.

Miss Cassie Arnold, Omaha, Neb., will soon move to Chicago, according to report.

Mother's Day.

The honor of originating Mother's day belongs to a young lady of Philadelphia, Pa., Miss Anna Jarvis, who conceived the idea of celebrating the anniversary of her mother's birth, which is May 9, under this designation. The white carnation is the floral emblem of the day, but other white flowers are used when carnations can not be obtained. We understand this is the third year of the celebration.

A SYNOPSIS of Chas. H. Allen's paper on "Plant Development" will be found on page 857 this issue.

TRADE in box and bay trees is increasing. The smaller cities which formerly used but a dozen or two, now use carloads.

MUCH valuable information respecting the San Jose scale will be found in the Zoölogical Bulletin (Vol. V, No. 9) published by the Pennsylvania Department of Agriculture.

THE new edition of the American Florist Co.'s Trade Directory contains the names and addresses of the leading florists, seedsmen and nurserymen of Mexico, Argentine Republic, Brazil, Chile, Colombia, Costa Rica, Guatemala, Nicaragua, Paraguay, Peru, Uruguay and Venezuela, a very important new feature.

ALL florists should see that their local newspapers make use of the excellent and seasonable articles issued regularly by the National Council of Horticulture. These articles, written by competent horticulturists, are reliable and valuable. Newspapers may secure this press service free on application to Jas. H. Burdett, 17 W. 104th place, Chicago.

"WHITE FLY STUDIES IN 1908," by E. W. Berger of the Florida Experiment Station, contains information as to the destruction of white fly, chiefly along the line of introducing fungoid enemies of the larvæ of the insect. The author also recommends the destruction by citrus growers of the cape jasmine, the chinaberry tree, the umbrella tree, the prickly ash, all privets, Citrus trifoliata and all useless or abandoned citrus trees of any variety.

Chrysanthemum Society of America.

ED. AMERICAN FLORIST:—

As a member of the Chrysanthemum Society of America I wish to express my appreciation and extend my hearty support to President Smith's appeal for an increase in membership of that organization. Mr. Smith very truly points to the benefits conferred on the growers of chrysanthemums generally by the work of the C. S. A. and its committees. And while he does not do so he undoubtedly could have offered practical suggestions which if acted upon would materially increase the benefits conferred. The work of the organization may not be above criticism (is anything in the universe?), and sincere criticism is solicited. But standing off with your hands in your pockets and criticising the other fellow seldom accomplishes anything. In traveling the highway of human progress, you have probably noticed that it is pretty generally up hill, and for every one that is willing to give a helping hand to push the benzine buggy, there are nine who meander contentedly along, either doing nothing themselves or ridiculing the efforts of those who are, but ready to get in and ride as soon as the machine decides to go or the top of the hill has been reached and there are prospects of a comfortable coast down the other side. Perhaps it may seem like imposing upon good nature to ask it, but will not each member of the C. S. A. make a special effort to get at least one new member during the remainder of the year? I will guarantee to send one myself. I. L. POWELL.

Hail Notes.

Notwithstanding the frequent storms Secretary Esler of the Florists' Hail Association says that there are only 18 unadjusted losses on his desk from all parts of the country and that there is cash on hand to pay everything and leave a substantial balance.

N. C. Moore & Co., Morton Grove, Ill., say their loss was entirely by wind and do not make any claim for hail insurance.

Omaha losses are heavy and several of them have not yet been adjusted.

Florists Taxed for Deficit.

A new Tennessee law, according to the Nashville Banner, compels florists and other merchants to make up the deficit caused by the no-license campaign in that state. The law reads: "Each person, firm or corporation dealing in cut flowers, or agent for same, conducting the business of a florist in cities, towns or taxing districts of 60,000 inhabitants or over, each, per annum, $25. In cities, towns or taxing districts of 20,000 to (and less than) 60,000 inhabitants, each, per annum, $15. In cities, towns or taxing districts of less than 20,000 inhabitants, each, per annum, $7.50."

In commenting on this T. C. Joy, of the Joy Floral Co., Nashville, states: "The new law applies to every business in the state. We must have more money to make up for the loss of the saloon licenses and hope the people will make up by being able to buy more flowers."

Post Cards as Advertisements.

ED. AMERICAN FLORIST:—

Enclosed please find two photographs of outdoor flowers, sweet peas and asters. I find that these pictures sent out on photographic post cards are very satisfactory for advertising purposes. My customers—retail florists in various places—have seemed very much pleased with them and grateful to me for remembering them thus. The view of the sweet peas is designed to show the large size of the flowers and the length of stem, as well as the quantity of bloom. I find light land very well suited to the sweet pea. With me every joint sends out a flower at the leaf axil, beginning when the vines are only one foot high. The blooms are very large right through the season, but my one trouble has been shortness of stem during dry weather. This year I am putting in an irrigation system and I expect a great improvement. Asters last year were immense—it seemed an extra favorable season. The view which I am sending shows only a part of the field. There is no such drudgery in picking asters as there is with sweet peas, and orders are usually larger. I plan on losing about one-fourth of the plants from blight and some more blooms from black bugs, but mean to have enough plants to make up for the loss. The amount received from an acre of asters is hardly equal to that from an acre of sweet peas, but the profit is perhaps greater.

ARTHUR W. HIGGINS.

Westfield, Mass.

[With this note came two photographic post cards, one showing sweet peas, the other asters grown as Mr. Higgins describes. Lack of space prevents our reproducing them.—ED.]

Important Foreign Exhibitions.

May 19-21.—National Horticultural Society of France, annual exhibtion le Jardin des Tuilleries, Paris, France. Abel Chatenay, secretary, 1 Rue St. Aubin, Citry-sur-Seine, France.

May 25-27.—Temple show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebaak, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scotland.

Meetings Next Week.

Hartford, Conn., May 28, 8 p. m.—The Connecticut Horticultural Society, County building.

Lake Forest, Ill., May 26, 8 p. m.—The Horticultural Society of Lake Forest, Council chamber, City hall.

New London, Conn., May 26.—New London County Horticultural Society, Elks' hall.

Toledo, O., May 26.—Toledo Florists' Club.

Winnipeg Man., May 27.—Winnipeg Florists' Association.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—As manager of greenhouse private estate, institution or nursery by a capable, reliable, industrious and sober florist.
Box 351, Fredericktown, Mo.

Situation Wanted—As foreman and grower of high grade roses, carnations and general stock by a married man; highest recommendations as to ability. Key 814, care American Florist.

Help Wanted—A No. 1 good rose grower. Address GEORGE NUTTING
109 Cotton Ave., Macon Ga.

Help Wanted—Rose and carnation grower, on a first-class up-to-date place; must be temperate; state experience and wages. Address
Key 808, care American Florist.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address
Key 849, care American Florist.

Help Wanted—Working foreman for large commercial place; must be capable and industrious; no drinking man; wages $25.00 per week.
Key 813, care American Florist.

Help Wanted—Young man in mail order department of a large catalogue house; must be a good potter and able to water; state experience and salary. Key 809, care American Florist.

Help Wanted—A florist experienced in growing 'mums, roses and carnations; to take charge of 4,000 feet of glass; must be single and sober; send reference and wages wanted. Address
Box 632, Pullman Wash.

Help Wanted—Experienced seedsman especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist.

Help Wanted—Working grower, foreman 30,000 feet of glass; roses, carnations, 'mums and some pot plants; western man; will pay best wages to competent man. Address
Key 812, care American Florist.

Help Wanted—Reliable traveling salesman to work market gardener trade also to work in store, must have a thorough knowledge of the seed business; good references required
F. NOLL & Co., 115 Mulberry St., Newark, N.

Help Wanted—A competent young man single, one with a knowledge of carnation and rose growing, and general retail greenhouse work; give reference also state wages with room and board.
H. S. CRUIKSHANK, Florist, St. John, N. B. Can.

Help Wanted—Experienced man in shrubbery and herbaceous department of a large commercial place; must be experienced and thoroughly reliable; strictly temperate; give full particulars with salary wanted. Address
Key 810, care American Florist.

Help Wanted—We are in need of an all-around young florist and gardener for a small place who understands growing pot plants and cut flowers; steady work for the right man who is not afraid to take hold; good Christian, sober man preferred; board furnished; address stating salary and references to J. RINDFLEISH, Beloit, Wis.

Wanted to Lease—With option of buying; greenhouses with from 15,000 to 30,000 feet of glass must be in good condition and well stocked; middle or middle western states preferred.
Key 811, care American Florist.

For Rent—Four greenhouses and lot; in good condition and good neighborhood; half block from car line. Apply to R. VIRUS.
1939 W. Leland Ave., Jefferson Park, Chicago.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser.
Key 799, care American Florist.

For Sale—$500 will buy the only greenhouse and florist business in one of the best counties of Illinois. Possession given after June 15. Investigate this bargain without delay. Address
Key 806, care American Florist.

For Sale or Rent—My up-to-date floral store and business; all you have to do is take off your coat and go to work; trade established; business good; the nicest store and in the best location you ever saw; I am overworked and have other interests that demand my attention; a full equipment; modern new brick building, belonging to me room to expand should you choose; don't waste time writing; you will want this if you see it; better be first; worth your while to visit me. Address
A. T. HOLMES,
708 Minnesota Ave., Kansas City, Kan.

Young Man's Opportunity

The advertiser wants a young man who has had some years' experience in practical greenhouse work to call on the greenhouse trade. Good opportunity for young man with ability to sell goods. State age, experience and salary. Address

Key 859, care American Florist.

Wanted to Lease or Buy

Florists' place, with one to five acres of land within 50 miles of Chicago. Send full particulars, including price and terms. Address

Key 860, care American Florist.

NOTICE.

Having sold my business to Mr. A. W. Brandt, I wish to thank those in the trade with whom I have done business for the courtesy and favors shown me while I have been connected with the trade of this city. I can heartily commend Mr. Brandt to my friends and patrons and hope they will extend to him the same kindness and consideration.

Those having accounts against me will please send them in promptly by June 1 because I expect to leave before June 15.

WM. BILLINGSLEY.

Indianapolis, Ind. May 17, 1909.

FOR SALE.

The Greenhouse Property, to Close the Estate of M. J. Lynch, Deceased.

The old established Greenhouse property of the late **M. J. Lynch,** on the South Road, near the City of **Poughkeepsie, N. Y.,** consisting of **Sixteen Greenhouses,** thirty thousand square feet of Glass, with entire stock of Palms, Roses, Carnations, Bedding Plants, and Plants of all kinds, etc.

Eight-room Dwelling, with hot-water heating and slate roof, also.

Five-room Gardener's Cottage adjoining Greenhouses.

Large substantial Carriage House.

This is a valuable location, with ample water supply, adjoining Rural Cemetery, on line of Wappingers trolley, one mile and a quarter from Court House.

For particulars apply

THOMAS M. LYNCH,
256 Main Street, Poughkeepsie, N. Y.

THE AMERICAN FLORIST COMPANY'S
Trade Directory

CONTAINS the usual fully corrected and revised lists of Florists, Seedsmen, Nurserymen, Catalogue Firms, Horticulturists, Landscape Architects, Parks, Cemeteries, Botanical Gardens, Horticultural Societies and Horticultural Supply Concerns of the United States and Canada.

Price $3.00 Postpaid.

AMERICAN FLORIST COMPANY,
324 Dearborn Street, CHICAGO.

Cincinnati.

A FULL WEEK

We have had a week of good business. While the warm weather rushed stock along still there was a good demand and immense quantities of flowers were used. Roses are beginning to show the effects of the warm weather and must be sold the same day they are cut to insure satisfaction to the buyer, and the same may be said of carnations. Outdoor bulbous stock, such as tulips, narcissi and lily of the valley is past. Iris is coming along in fine shape and outdoor flowers such as spirea, snowballs and weigela are making their appearance. We will soon be receiving peonies in quantity. Sweet peas and marguerites are good property and clean out nicely every day. Callas are in over supply, while a scarcity of Lilium longiflorum exists. One of the scarcest items at present in this market is fern and the wholesalers are having their troubles trying to locate it. However within a week or 10 days the Kentucky fern will be ready and while coarse looking and not as desirable as the eastern stock it will help out. Smilax is also scarce, while there is a sufficiency of Asparagus Sprengeni and A. plumosus in sprays.

NOTES.

The J. M. McCullough's Sons Co. has just received the second importation of bay trees, a most desirable lot. This firm has been handling the finest lot of bays, boxwoods and evergreens to be seen anywhere, the same being selected by Albert McCullough last summer while abroad. Another gratifying feature is the ready sale this stock has met with, showing very plainly that the public will pay good prices for good stock. Miss Edith Kyrk had the lion's share of the work for the Gritz funeral last Wednesday and she used a very choice assortment of flowers; in fact, she relieved the wholesale houses of the best grades to be had on this day. A wreath of lily of the valley, Richmond roses and Farleyense fern was worthy of mention and reflects great credit on Miss Kyrk's artistic ability.

George Gotzhow, formerly with the Covington Seed Co., has accepted a position as foreman and head gardener at L. B. Reakirt's place in Clifton. This is one of the most desirable private places about this city and Mr. Gotzhow ought to make good here, as he is the right man in the right place.

Wm. A. Wittaker, the genial traveling representative of The J. M. McCullough Sons Co., is a very sick man, having undergone a serious operation last Thursday at Christ hospital. Nobody has more friends than Billy and all wish him a speedy recovery.

C. E. Critchell is about the busiest wholesaler in this city at present; his specialty, green goods, is in good demand and his only complaint is the scarcity of ferns, of which he would like to procure about 100,000 a week.

Sidney Werthheimer, of ribbon fame, blew into town one day and was on his way rejoicing the next, stating that he booked more orders while he was in this city than he did any one day since he left home.

Martin Reukauf was a caller the past week and tells us that business is good with him. Well, nobody can refuse Martin an order.

Wm. Murphy is receiving a nice lot of peonies, but says they are slow sellers.

S.

LINCOLN, ILL.—Otto Hembreiker has retired from partnership in the West End Greenhouses, leaving Hans Schmalzl in charge of the business.

WE NEVER DISAPPOINT; SATISFACTION GUARANTEED.

Rich-monds, Am. Beauties, Killar-neys, Brides and Maids, Valley, Carnations, all var-ieties, Callas and Easter Lillies, Smilax, Sprengeri and Plumosus.

New Crop Fancy and Dagger Ferns
2.00 per 1000

Henry M. Robinson & Co.,
BOSTON, MASS.
Wholesale Commission Florists,
Hardy Cut Evergreens and Florists' Supplies.
Tel. 2617-2618 Main. 25290 Ft. Hill.
15 Province St. and 9 Chapman Pl.

Southern Wild Smilax, extra fine quality
Brilliant Bronze and Green Galax, Cut
Boxwood Sprays, Leucothoe
Sprays, Laurel Wreaths, and
Laurel Festooning and
Branch Laurel, Green
and Sphagnum
Moss.

ORDERS placed with us means that you can depend on them.

Fancy and Dagger FERNS $2.50 per 1000
Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000: 10,000, $7.50
Sphagnum Moss, large bales $1.25
Leucothoe Sprays ..... $1.00 per 100; 1000, 7.50
Boxwood ..... 35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

New Castle, Ind.

Since he purchased the Benthey-Coatsworth greenhouse property, Otto Benthey has organized a company to be known as the Frederick J. Benthey Co. Announcement of the deal was made May 7, and the new firm enters the field well equipped to handle an immense volume of business. Otto Benthey will manage the local plant. It will be his business to get out the goods, and his brother will have full charge of the retail branch in Chicago, which has been established for some time.

Over a year ago this property was sold to Peter Weiland for $10,000 at a sheriff's sale, to satisfy a judgment granted to the Citizens State Bank on a mortgage. The property was redeemed some time ago by Benthey, who then got busy and organized a company with plenty of capital to conduct the business properly. Otto stated that it was his intention to change some things very materially. In the future special attention will be given to local retail business. This applies to roses, pot plants, landscape work and design work. The wholesale business will be carefully looked after also. —New Castle Courier.

MERRILL, WIS.—C. Voyes left here May 16 for Washington, Ind., where he intends going into business for himself.

E. A. Beaven
LOG MOSSES
Natural and Perpetuated.
Special prices for quantity lots for future delivery.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns. Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

New Crop Ferns
FANCY and DAGGER ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
Evergreen, Alabama.

John P. Scherer, 636 Gardener St., Union Hill, N. J.
Telephone 328 L Union. Smilax Ferns, Palm Leaves and all kinds of Green Goods.

Plant Development.

The reading of the paper under this title which had been prepared by the veteran Chas. H. Allen, of Floral Park, N. Y., before the New York Florists' Club was an intellectual treat such as is seldom given the members of this or any other club. Mr. Allen, who we regret was not able to be present and read his own paper, has, during the course of a long and busy life, been very observant of the so-called little things in nature. These are they that lift horticulture out of the ruck of common professions and make it, to those of the right calibre, a pursuit of never-ending interest. Such a man Mr. Allen is and has been, and the character of the man stands out boldly in his writing.

Plant development was considered by Mr. Allen under three heads. The first, selection through environment, "which means to render Nature all the assistance possible in harmony with what we call natural law"; the second, hybridization, "the object of which is to unite the good qualities of two or more species, forming one of greatly increased value"; the third by means of sports where Nature acts "in self defense in the restoration of some of the specific properties for which the plant is distinguished and which have been destroyed through the interference of art." The first Mr. Allen considers the most important of all, as its application pertains largely to the cereals and food plants generally. In considering this Mr. Allen went deeply into the agricultural end of the question, showing how weak and unprofitable were the results obtained by hybridization or cross fertilization as compared with selection. He pointed out how, to be successful in obtaining a variety suitable for growing under any peculiar circumstances of climate, a kind must first be chosen that is hardy enough and suitable for the climate and then constantly improved by selecting the finest specimens year by year. Although this is foreign to the florist's business to some extent, it is pointed out that such selection and the knowledge of its effect will materially assist the grower of any class of plant or flower. Mr. Allen is rather severe upon the "efforts our government is making, the millions annually spent in the ruination of our agricultural industries under the guise of development," and upholds the Hon. James Wood for his good work from Nature's standpoint, developing his varieties by selection and subsequent good cultivation of the selected individuals.

CHANGES BY ENVIRONMENT

In proof of the soundness of his arguments Mr. Allen mentions some of the changes made in varieties by environment. There are but nine weeks of summer in certain parts of Sweden, but here growth during that time is so rapid that two crops of hay and many kinds of vegetables are produced. Such results from seeds grown in the climate of New York and sown in Sweden would not be possible. The plant must be prepared by the slow method of adapting itself to its surroundings, and what Mr. Allen terms the soul or inner life of the plant has to be aroused to the necessities of the situation and act upon the message it receives before the plant can be successful in its new home. Rather a fanciful reasoning, possibly some of our hard-headed materialists may say, but have they a saner or more likely reason to offer for the changes that are brought about by environment?

Can they say why, for instance—as Mr. Allen points out—the lima bean in Peru as well as the white and scarlet Dutch runner beans are perennial and produce seeds for several months in succession in a kind of half-hearted fashion, becomes annual and so gets down to the business of life that it produces as much seed in two months in the north as it does at home in six? Scotland is justly famed for the finest oats in the world; here the varieties have gradually accustomed themselves to the climate, which is possibly the finest in the world for the crop. The Clydesdale oat imported to this country gave more than double the quantity produced by home grown seeds the first year, but the type adapted itself to the country in a few seasons and gave only a similar weight of oats to the native stock. Here a lesson is pointed out and this is, get seeds from where the species or variety reaches the highest degree of perfection. Referring to the egg plant, Mr. Allen points out that the fruits are much larger when grown in New York state than in its native habitat in Africa, and this large size is not due to any intensive cultivation, but owing to Nature evincing more care of the seeds and producing more pulp for their protection.

AS IT AFFECTS THE DAHLIA

The changes in the dahlia, from the original type into the show, cactus,

DECORATION DAY
PRICE LIST
A Large Supply of Good Stock in All Lines

	Per doz.
American Beauties	
Long stems	$4.00
30-in. stems	3 00
24-in. stems	2.50
20-in. stems	2.00
15-in. stems	1.50
12-in. stems	1.00
Short	.75
	Per 100
Richmond, Select	$6.00 to $8.00
" Medium	4.00 to 5.00
Killarney, Select	6.00 to 8.00
" Medium	4.00 to 5.00
Bridesmaid	4.00 to 6.00
Bride	4.00 to 6 00
Chatenay	4.00 to 8.00
Ivory	4.00 to 6.00
Perle	4.00 to 6.00
Sunrise	4.00 to 6.00
ROSES, our selection	4.00
CARNATIONS	
Are all good	4.00
Easter Lilies	doz., $1.50
Valley	3.00 to 4.00
Callas	doz., $1.50
Asparagus Plumosus, extra quality	per bunch, 50c to 75c
Fancy Ferns	per 1000, $5.00

Peter Reinberg
35 Randolph St., CHICAGO

Carnations in good supply and all choice varieties.

Killarney Fancy, selected. The best grown stock in the United States. Must be seen to be appreciated.

American Beauty coming in large supply.

Plenty of nice **Maids, Bride** and **Richmond.**
Also getting in nice lot of short to medium **Perles.**

Peonies We are going to be well fixed on Peonies for Decoration Day.

Send for Our Decoration Day Price List if you have not already received a copy or just send us your order and be assured of getting the best this market affords at lowest market quotations.

We will also have a fine lot of **Sweet Peas, Stocks** and **Candytuft.**
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pompon and other forms, are wonderful instances of Nature's care for the means of reproduction. In Mexico, its native home, the flowers are single, the ring of petals being simply an adornment, undoubtedly for some wise purpose, possibly for the sake of attracting insects. But, removed to a colder clime, the floral discs of the dahlia elongate to protect the germ from cold which would prevent fertilization and render the flowers seedless and, from a natural standpoint, failures. To protect her own, Nature changes the form of the flower by adding the beautiful petals that protect the germ. This power of Nature is plainly manifest when we take the most highly developed forms of the dahlia to the tropics, where they invariably revert to single or original form the second season. Speaking of the sweet pea, which he says he has known and loved for at least 75 years, the same or a similar effect is noted. In its native habitat it is the tallest growing of the numerous family of lathyrus. In colder climes, but where the growing season was shorter and sharper, the requisite number of seeds had to be produced, consequently Nature eliminated much of the rank growth of vine and produced flowers all at one time or nearly so. The dwarf varieties of the Blanche Ferry type show this in a very marked degree.

HYBRIDIZATION

Is hybridization a science or an art? is the question Mr. Allen asks and answers himself by saying it is both and it is neither. He never remembers a case where the hybridizer sought to obtain a certain result successfully. The results are often happy and all that could be desired, but not what were looked for or hoped for. Comparing the carnation and the rose, the former is a more fascinating subject than the latter, as the season of growth is shorter and the results more interesting because more varied and more quickly obtained. During the last 50 years the development of the carnation has made rapid strides and the author cites his first meeting with the carnation as a commercial flower in the greenhouses of the late John Humphries of Brooklyn. At that time La Purite and President De Graw were the only varieties grown here, though a little later the author visited Flatbush, where Dailledouze, Zellar, Gard, Bennet, Davidson and Augustus Messenburg were located and the "fields" of carnations were an inspiration to him. Pleasing reference was made to these pioneers and their work also upon roses and chrysanthemums considered from the same standpoint.

SPORTS

It was evident that Mr. Allen was much more at home and at ease in his reference to sports, "the third and last order of development, which is Nature's own," and the way he traced the inner workings of the plant's "soul cell," to quote Hæckel, showed how deeply he had thought upon the question. His simile of the apple tree was very apposite. The tree, he said is usually regarded as an individual life, but strictly speaking it is a community, an immense apartment where the tenants dwell in harmony of purpose and where the soul of Nature is janitor. Take 25 of the most distinct varieties and graft or bud them on a tree. In due time the tree will produce fruit of each variety inserted, manifesting a vital principle which is analogous in every form of life. Each and every species is governed by the same law of reproduction, development and dissolution, varying only in degree. The sap carries to the Bow apple its sweetness, to the Early Harvest its acidity without ever making a mistake. The flavor that Nature gave to the apple she will ever protect. It is this endowment, this soul, that gives to the apple its crimson and gold, its yellow or other color, its sweet, sour or subtle flavor, though the human mind, with all its power of reason cannot grasp the occult secret of the inner life.

Nature is a series of changes or unfoldings, and sports are the result of an effort of the "soul in Nature" to be restored to the conditions the Creator assigned them. Types disappear and new ones take their places, old forms crop up in least expected places, showing that the plant rebels against the artificial forms to which it has been compelled against its will. One of the most reliable and extensive growers of tomatoes for seed, the introducer of a large number of fine varieties, told the author he never relied upon cross fertilization for a new variety, but was ever watchful for new forms that were constantly appearing. "When one is discovered it is given every possible attention, every opportunity to develop its every possibility," and this is the secret of success. The author winds up with the following eloquent yet almost pathetic appeal to his hearers:

"Gentlemen, I do not, cannot, expect you to share my views regarding the unity of Nature, that the insect, the animal and the plant has, within, a soul of being, working with and in harmony with the development of the human race which is, as far as we know, the limit of creative thought. But the world is growing. Recently the younger Darwin, who wears shoes several sizes larger than his father required, startled the world of thought with the assertion that plants think, a thought I freely expressed more than 50 years ago. Mind and matter are joint partners and work together in harmony of purpose. The soul in Nature is their ever ready, ever willing assistant. The beautiful and good, the ideal and actual, sustain and accompany each other through every walk of life. With the rise of the individual the nation and the race, the plant has kept pace with every onward, upward movement; and in the decline and fall of nations the beautiful and useful in plant life soon became weeds of sorrow in the solitude. The rose smiles more sweetly, throws out its buds more freely when tended by the hand that loves it. While it has a charmed mission in the development of the human race, it is doubly sweet in making the pathway of the more humble fragrant with its flowers.

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Railway Gardening in Canada.

Enthusiasm and success are stamped all over the scheme for making the stations of the Canadian Pacific Railway the links in a flower chain extending across the continent. N. S. Dunlop, the chief of the C. P. R. claims department, 12 years ago inaugurated the free distribution of flower seeds to station agents and others, and the beautiful flower gardens by which so many of the company's stations are surrounded in the summer months are the direct result. In this direction the company has given an impulse to civic pride all over the dominion. It has been noticed wherever the station agent or section men establishes a garden with the seeds supplied free from the company's floral departments, the enthusiasm for flowers invariably extends to the whole community and fosters pride in the beautifying of the homes of the people.

Mr. Dunlop has sent out the annual packages of seed, no fewer than 50,000 packages, representing 32 varieties being distributed in 1,500 gardens across the continent. Agents, section men and employes, together with their wives, vie with each other, and now wherever there is a C. P. R. station, section house or office building, there flowers will be found.

Later on thousands of plants and shrubs will be sent out, while last fall 200,000 tulips, hyacinths, lilies, crocuses and iris bulbs were distributed. This means that with those sent out in former years there will soon be millions of early spring bulbs in bloom.

The Grass-leaved Pandanus.

Those who have command of a warm house that can be kept at 50° to 60° in winter will be able to grow Pandanus graminifolius, says the Gardening World. It is used for the decoration of warm houses and for table decoration. It is the most graceful of all the types of pandanus grown for this purpose. The leaves are very narrow, arching gracefully, hence they have been compared to grass. These leaves attain a length of 12 to 18 inches, though the plant will be most useful for table decoration in the smaller state. It grows very slowly, however, and for that reason remains in useful size for a much longer time than the larger leaved sorts in cultivation. Propagation is effected by taking off the side shoots or suckers and inserting them singly as cuttings in pots of sandy soil.

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Wholesale Flower Markets

ST LOUIS, May 19.

Roses, Beauty, long stems	2 00@ 2 50
" medium stems	1 00@ 1 50
" short stems	25@ 75
" Bride, Bridesmaid	2 00@ 5 00
" Chatenay	2 00@ 5 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 6 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 4 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 6 00
" Alice Roosevelt	2 00@ 4 00
Carnations, fancy	2 00@ 3 00
" common	75@ 1 50
Lily of the Valley	3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy, per 1000, $3 00@$4 00	
Smilax	12 50@15 00

CINCINNATI, May 19.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, May 19.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@ 8 00
" Short	2 00@ 3 00
Carnations	1 50@ 3 00
Callas	8 00@10 00
Cattleyas	60 00@75 00
Daffodils	2 00@ 3 00
Daisies	75@ 1 50
Lilium Longiflorum	10 00@12 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Sweet Peas	40@ 75
Tulips, outdoor	50@ 2 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	3 00
Galax, per 1000	1 50
Leucothoe Sprays	1 00
Smilax strings	15 00

MILWAUKEE, May 19.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodils	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

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Roses, Carnations and all kinds of Seasonable Flowers in Stock.
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Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Glen Cove, N. Y.

The regular monthly meeting of the Nassau County Horticultural Society was held in Pembroke hall on May 14. There was a good attendance, about 50 members being present. In the points competition P. Reul led with a meritorius exhibit of mixed antirrhinums. These were over six feet high with about two and a half feet of flower stem. The awards were as follows: P. Reul, antirrhinums, 90; G. Wilson, carnations 80; H. Gaut, culinary peas 86 2-3; V. Cleres Asparagus Sprengeri 83 1-3. There was, as usual, a very good display of flowers and vegetables for exhibition. A. Kudenbach received a cultural certificate for a vase of sweet peas, and a dish of lima beans put up by H. Grant received a like award. V. Cleres was also awarded a cultural certificate for a fine lot of cauliflower. Among the other noteworthy exhibits was a vase of Gladiolus Blushing Bride, staged by G. Fardel. This is a fine thing and ought to be more widely grown than it is. A. Mackenzie read a very able paper on Chrysanthemums for Exhibition for which the society unanimously awarded him a vote of thanks. J. F. Johnstone, who has recently returned from a trip to Scotland, promised to give an account of his travels at the June meeting. The society holds its rose show on June 26.

W. H. MACKENZIE.

Chicago.

LARGE SUPPLY—NO DEMAND.

The market, which started to go off early last week, kept right on falling until by Tuesday there was a veritable glut. This week has seen very heavy receipts with little or no demand and there is no evidence in sight of any better conditions prevailing until buying for Decoration day begins. American Beauty roses are in great quantity and were never finer. Bride and Bridesmaid are plentiful and grade up fairly well. Killarney and Richmond are in good cut while the supply of Perle is limited. There is an abundant supply of carnations, though red is not quite up to the demand. Violets are about done and the coming week will probably finish them. Lilies and callas are abundant, with very little demand. Speaking of Decoration day, peonies promise to be the popular flower, and as a great many of them are going into cold storage, there will undoubtedly be plenty to go around at from $3 to $8. The coming holiday calls for more cut flowers than either Christmas or Easter and there is talk in some quarters of a scarcity of roses, but from all indications there will be a good supply at prices ranging about the same as last year. Cape jasmine will not cut much of a figure on the market this year. Bulbous stock is not plentiful and is nearing the end. Smilax, which was almost a negligible quantity last week, is more plentiful, though rather stringy.

NOTES

The Bohannon Floral Co., which will move into its new quarters, 11 Monroe street, about June 1, states that it will have one of the most artistic flower shops in the city. A frontage of 50 feet, with two large show windows, will give ample room for display, and the increased floor space is made necessary by the rapid growth of the business. Bohannon also anticipates going into the wholesale trade.

Bruno Kennicott, son of Dr. John A. Kennicott, pioneer horticulturist and brother of the late Amasa and Flint Kennicott, died at the Presbyterian hospital on Sunday morning of peritonitis caused by the bursting of his appendix. While not directly connected with the flower business, Mr. Kennicott comes of a family well known to the trade. He is survived by one sister, Mrs. Frank W. Reilly.

No tulips were planted in the flower garden at Washington park last season, and many visitors last Sunday were disappointed in not seeing them. A few pansies were the only attraction on the flower beds, but the conservatories were very bright with showy flowering plants. Everything outside is progressing well and the trees, grass and herbaceous plants are very attractive to visitors.

Allie Zech captained a party of 15 florists who went out to Miller's last Sunday to play the local baseball team, but when they arrived at that classic suburb, made memorable by the car barn bandits, they found nothing but sand dunes against which to play. It was rather a disgusted bunch of flowers that got back to town at 6 o'clock, and each one solemnly swore "Never again."

Every one connected with the florist business who is interested in bowling should meet with the Florists' bowling club on Friday evening at 8 o'clock at Bensinger's alleys, 118 Monroe street. Games are rolled every Friday evening and a five-man team to represent the Chicago florists will be selected from the high average men to go to the convention in August.

M. Shattls, western representative of Lyon & Co., New York, states that shortly after June 1 he will carry a stock of $50,000 to $75,000 here, and be in better shape than ever to take care of his trade. Mr. Shattls was in town for only a few days, having just returned from a trip through the west, where he reports trade is very quiet.

Jens Jensen, former superintendent of the West parks and later consulting landscape architect for the West park board, has resumed private practice with offices at 204 Dearborn street, Marquette building, rooms 605-606.

Erich Arlt has his place at 1989 W. Leland avenue up for rent and will move about July 1 into the larger greenhouse establishment of E. Brenner at 534 Dickens avenue, which he has leased.

John Kruchten is making a very fine showing of the butterfly sweet peas and states that he has had remarkably good success with them this year, the growth being very free.

S. F. Leonard of the Leonard Seed Co. will sail for Europe on June 5 on the Steamer Minnetonka. Mrs. Leonard and their eldest daughter will accompany him.

J. A. Budlong is showing some very fine white carnations and an abundance of pansies that grade up just a little bit better than ordinary stock.

Sam Pearce has a nice lot of cold storage lilies coming along for June flowering and reports an excellent demand for bedding stock.

J. C. Craig, one of Chicago's old time florists, is putting up 30,000 feet of glass on Wolf road, near Elmhurst.

H. R. Hughes is planning an elaborate window and store display for Memorial day.

O. J. Friedman's new store on Michigan avenue is very attractive.

Aug. Lange says business is improving every day.

Colorado Springs, Colo.

An important deal was consummated May 15 when W. H. Evans, of the Pikes Peak Floral Co., bought the greenhouse property and business of Wh. Clark. The consideration has not been made public but is believed to be about $25,000. Mr. Evans has taken charge of the property. It consists of the greenhouses operated by Mr. Clark at Williamette and Platte avenues, and a large number of houses on Wood avenue. Mr. Clark retains and will continue to operate his nursery business. The deal does not include the land covered by the greenhouses. The business conducted by Mr. Clark is the oldest of its kind in the state. He started here 28 years ago on the site now occupied by the High School building.

The Pikes Peak Floral Co. has for some years been the largest exclusive wholesale floral establishment in the state, and, with the property acquired, will be the largest wholesale and retail establishment in the Rocky Mountain district. Heretofore the Pikes Peak Floral Co. has been engaged exclusively in the wholesale business, but will now enter the retail field. Its greenhouses now cover more than four acres, with the original greenhouses at 519 East Columbia street and the total wholesale and retail business in this line amounts to more than $125,000 annually in this city. William E. Crump will be placed in charge of the sales department of the Pikes Peak Floral Co. and Edward Johnson will have charge of the greenhouses and growing.

LA FAYETTE, ILL.—Gaar Ingels, son of Irvan Ingels, proprietor of the Home Nursery of this place, has engaged with the E. G. Hill Co., Richmond, Ind., as an apprentice. He expects to later engage in the florists' business in connection with his father's nursery.

Notonia Grantii.

This handsome succulent received the above name from a very imperfect specimen collected on Speke and Grant's expedition to discover the sources of the Nile. It was discovered in the Mozambique district in 6° 50′ S. latitude, and is the Kleinia sp. of Speke's Nile Journal, p, 638. In a note attached to the original specimen in the Kew Herbarium, Colonel Grant describes the flowers as blood-red or port-wine colored. The color varies; the cultivated plant has very handsome orange-scarlet heads. The species has been identified with Cacalia semperviva, Forsk., from tropical Arabia, and, applying the rules of priority for specific names, Ascherson has named it Notonia semperviva, under which designation it is likely to remain in some continental botanic gardens. Senecio (kleinia) longipes, Baker, in Kew Bulletin, 1895, p. 217, is reduced to Notonia Grantii in the Botanical Magazine, wherein the plant is figured, tab. 7691. A very similar plant was subsequently described by J. G. Baker in the Kew Bulletin for 1897, under the name Senecio (kleinia) Nyikensis, where the author has: "ad S. longipedem, Baker, Somaliensem magis accedit." Whether this is really specifically different, and also in cultivation, it is difficult to say, but I believe the name has been given to a cultivated plant. There are several dried specimens at Kew bearing the name of this notonia, all of which are more robust than ordinary N. Grantii, as introduced by Miss Edith Cole from Somaliland, and first raised from seeds by R. Lynch, curator of the Cambridge Botanic Garden. It may be asked what is the difference between kleinia and notonia, as genera, and the answer is that it is limited to the latter having the branches of the style terminating each in an ovate appendage. It seems, therefore, that if one is reduced to senecio the other should follow. Notonia Grantii is a free-growing and free-flowering subject.—Gardeners' Chronicle.

The Ladder Fern.

Our so-called Boston fern (nephrolepis) is often called ladder fern on the other side of the water. With us it is frequently called the sword fern, while the Christmas fern (Polystichum acrostichoides), which is constructed like the nephrolepis, but shorter, is known to the trade as the dagger fern. Despite Shakespeare's query as to "what's in a name?" we are inclined to think that our British cousins have the better of us as regards the cognomen of the species in question.—Fern Bulletin.

ADAMS, MASS.—A. J. Boothman is building another greenhouse.

BENTON HARBOR, MICH.—C. Edinborough is building a greenhouse.

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Have some fine **BOXWOOD** Left, in **Bush** and **Pyramidal Forms.**

Can still supply **CALADIUMS** and **TUBEROSES,** A1 stock.

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CHICAGO, May 19.

Roses, Beauty, extra select		3 00
" " 30 in		2 50
" " 24 in		2 00
" " 20 in		1 50
" " 15 in		1 00
" " 12 in		75
" " Short		50
		Per 100
" Bride, Bridesmaid, select		5 00@ 8 00
" " " medium		3 00@ 5 00
" Chatenay, Sunrise		3 00@ 6 00
" Golden Gate, Uncle John		3 00@ 6 00
" Kaiserin		3 00@ 6 00
" Kate Moulton		3 00@ 6 00
" Killarney, select		6 00@10 00
" " medium		3 00@ 5 00
" Mrs. Marshall Field		3 00@ 6 00
" Mrs. Potter Palmer		3 00@ 6 00
" Perle		3 00@ 6 00
" Richmond, extra select		6 00@ 9 00
" " medium		3 00@ 5 00
" " short		2 00
Carnations, select, fancy		2 00@ 3 00
" common		75@ 1 50
Callas	per doz.	1 25@1 50
Cattleyas	per doz.	6 00
Daisies		75@ 1 50
Forget-me-nots		1 00@ 1 50
Gardenias	per doz	6 00
Irises		2 00@ 6 00
Jonquils		2 00@ 3 00
Lilac, white	per bunch	50
" purple	per bunch	15@ 35
Lilium Harrisii	per doz.	1 50@2 00
Lily of the Valley		15 00
Pansies		2 00@ 4 00
Peonies, select	per doz.	1 00@ 1 50
" common	per doz.	75@1 00
Snapdragon		50
Sweet Peas		8 00@12 50
Tulips		50@ 2 00
Violets, single		2 00@ 4 00
" double		50@ 75
Adiantum		50@ 75
Asparagus Plum, strings	each	60@ 1 00
" sprays		35@ 75
" Sprengeri		2 00@ 6 00
Boxwood	per 50 lb. case	2 00@ 4 00
Ferns, fancy	per 1000	5 00@7 50
Galax, green	per 100 15; per 1000	5 00
" bronze	per 100 15; per 1000	1 00
Leucothoe sprays		1 00
Smilax strings	per doz.	75@ 1 00
		2 00

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New York.

SURPLUS AND SLAUGHTER

A saying has come down to us from eminent authority, that a surplus is has been calling on him for the past also make the trip, which will last almost three months, taking in England, one of his oldest correspondents who ...ip through England. While in Holland Mr. Leonard will be the guest of France, Germany, Holland and Denmark, and will include an automobile better than a deficit, but it is hard for the wholesalers to see it in that light at the present time. Very heavy shipments arrived May 10 and each day following was but a repetition of surplus and slaughter of prices. It has been impossible to quote prices accurately, for quotations must necessarily be on the best of each grade of stock. Take American Beauty roses for instance. Early in the week it was stated on good authority that leading retail houses were buying their specials at $5 and $8 per 100. That, however, did not include the many that were not sold the day they came in and were eventually sold, if sold at all, as low as $2 and $3 per 100. With the best roses selling at such prices, it can be easily imagined what happened to the poorer grades. Even the street vendors seemed averse to handling inferior roses when they could buy the best at slaughter prices. It has been said that the lilac crop would not be heavy, but in walking the streets we have noted no evidence of scarcity. During the past week it could be bought in any quantity from a bunch to a wagon load, and being something new it caught the fancy of buyers. The saving clause is that it cannot last long. The very low wholesale prices being paid for even the novelties in carnations, prompted at least one Fifth avenue retailer to placard his windows for "a sale," at 50 cents per dozen, to the great disgust of other dealers of that aristocratic thoroughfare. They think it unprofessional and if Fifth and First avenues are to be placed on the same level it seems as if there is no use in having a Fifth avenue. The foregoing touches on the "killing" feature of the week's business. A great accumulation of the lesser kinds of flowers, such as stocks, sweet peas and other varieties continues, much of which is a drug. The early peonies are coming in, but they have a poor chance among such a heterogeneous collection.

THE PLANT MARKET

Turning from the discouraging features of the cut flower trade, it is pleasing to note activity in the plant market. The plant market, that now is, has its location under an immense tent at Canal and Washington streets, near the Hudson river docks. The time to see this market at its best is on a Saturday morning, from 1 to 3 o'clock. It can be seen on other mornings, but shows to better advantage on Saturdays on account of the greater display of stock. On such a morning it is doubtful if in any place in the world could be found a better display of fine geraniums and smaller bedding stocks than are there offered for sale. About midnight the van-like wagons come rumbling in and are backed up to the curb. The tent is brilliantly lighted by arc lamps, and as fast as the wagons are opened a force of helpers seize the flats and they are carried in and deposited in the respective sections allotted to their owners. In addition to bedding plants many fine pot roses, hydrangeas and other large plants are here sold. The buyers for retail stores and speculators and buyers from various walks of life are early on the scene and it soon becomes animated and interesting. On a recent visit in addition to the above named plants, we noted fine heliotropes, spireas, mignonettes, candytufts, pansies, vincas ivies, marigolds and forget-me-nots, and they are not there by the dozens and scores, but by thousands. Visitors should not fail to interview John Birnie, who is one of the promoters of the enterprise, and knows all about growing bedding plants as well as selling them. The location and surroundings of this market, the hours and conditions under which the business is transacted, all combined make it an attractive feature of the horticultural life of the city.

NOTES

L. B. Coddington of Murray Hill, N. J., who ships a large amount of fine American Beauty rose stock to H. E. Froment, has recently erected a new house, 55x425 feet. It is of flat iron rafter construction with the long span to the south. It has ventilation on the sides underneath the benches operated by a new invention of Manager Sefton's of Hitchings & Co., this firm holding the patents. They also had the contract for the erection of the house. The overhead ventilators are so arranged that the operator at the hand wheel can tell just how much air he has on without looking up.

Anton Schutheis, of College Point, has recently returned from a two weeks visit with a friend in the mountains of Pennsylvania. On the return trip he attended the convention of the Knights and Ladies of Honor, at Rochester. At his range there is a large stock of pot roses and other good things for Decoration day, coming on.

In the case of Ordonez Bros. versus W. A. Manda, Inc. at Morristown, N. J., May 11, the jury brought in a verdict for the full amount of the bill sued for by the former firm, $420 and $18.91 interest, according to the Morristown Daily Record. This was a case involving the purchase and delivery of certain packages of orchids.

As a result of correspondence between the Retail Florists' Association of this city and the agents of the ocean steamship lines, the latter have agreed to give receipts for all flowers that are on board the steamers one hour before sailing.

Among the first peonies that have appeared in the market were those from the gardens of Chas. Smith's Sons, Woodside, L. I. This firm, in addition, continues to grow fine blooms of the genuine Lord carnation.

N. C. Schreiner has given up his wholesale store at 41 West Twenty-eighth street and will, it is said, take a position with a well-known wholesaler.

A small fire in the range of W. H. Siebrecht, Astoria, on the night of May 2, caused considerable damage to flowering stock by smoke.

Joseph Voecke, salesman for Wm. H. Siebrecht in the Coogan building, is seriously ill with pneumonia.

Buffalo.

OUTDOOR FLOWERS SOUGHT.

Continued unfavorable weather has not increased the sale of flowers, nor has it helped to bring in the outdoor stock. All cut flowers, such as roses and carnations, are about as plentiful as they have been. Some lilac has been received, but in limited quantity and of good quality. Sweet peas and yellow and white daisies are meeting with ready sale, in fact, anything that looks like outdoor stock. The heavy rains Saturday evening almost drowned everything in outdoor flowers.

NOTES.

Stroh's Quality Flower Shop, Arlten J. Beyer, manager, opened for business on Saturday very auspiciously. It is one of the neatest and best arranged stores in the city. Tile floors and walls, with mirrors above the tiling, leaving about four feet of wall above the mirrors, which is in white as the whole store is in that color. A very neat, well lighted ice box in the rear shows the stock to good advantage. The counters, card desks and other fixtures are of the latest designs. The new store has best wishes of all.

There was a time when this city was heralded as one of lawn vases and veranda boxes, but it seems as if the florists are living on past laurels. It is about time for some of the greenhousemen to suggest some new mode of filling such receptacles, even if it does cost more. There are some who are willing to pay for something different, and it is up to the greenhousemen to suggest it and get this city out of the same old rut.

Weddings the past week were not of very large proportions and receptions were limited owing to the usual mix-up of moving time. The opening of one of our leading cigar stores called for a large amount of cut flowers. It is safe to say that 300 or 400 American Beauty roses were used, not counting the other cut flowers, baskets, etc. S. A. Anderson had the arrangement.

J. D. Schultz of Tonawanda has torn down one old house and erected two new structures, one 20x100 and the other 18x100 feet. Mr. Schultz has bought property in the business section of Tonawanda for a store with a conservatory in the rear, which will give this town a good retail store, having been very successful during the three years he has been located at that place.

BISON.

Louisville.

A GOOD WEEK.

Business conditions the past week were very satisfactory especially with the greenhouse people, who are rushed with planting. Roses are plentiful and of good quality, they having a fair demand. Carnations are very good in quality and supply and the demand is very satisfactory. Lily of the valley is plentiful and finds some demand. Peonies and iris can be had in good quantities and find a fair demand. Fancy ferns have been very scarce, but the supply is better now. Other green goods can be had in plenty.

F. Walker & Co. will move to their new location on Fourth between Chestnut and Broadway about July 1.

F. L. S.

J. K. ALLEN,

Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

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WHOLESALE FLORISTS,

44 West 28th Street, New York City.
Phones, 798 and 799.

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WHOLESALE FLORISTS

44 West 28th St., Phones: 325 and 5583 Madison Square. **NEW YORK.**

Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS

J. J. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square.
39 West 28th Street. **NEW YORK**

Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

A. L. YOUNG & CO

WHOLESALE FLORISTS,

54 West 28th Street, NEW YORK.

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

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Are the best product of the best growers for the New York Market.

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Wholesale Florists,

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Coogan Bldg., 6th Ave. & W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.
Desirable Wall Space to Rent for Advertising.

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Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited

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All flowers in season. Consignments of first-class stock solicited.

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PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg.
Cor. 6th Ave. and 26th St. **NEW YORK.**

Wholesale Flower Markets

NEW YORK, May 19.

	Per 100
Roses, Beauty, special	8 00@10 00
" " fancy	6 00@ 8 00
" " extra	4 00@ 5 00
" " No 1	3 00@ 4 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	3 00@ 4 00
extra and fancy	2 00@ 3 00
No. 1 and No. 2	50@ 1 00
" Killarney special	4 00@ 6 00
extra and fancy	2 00@ 3 00
" Richmond	50@ 5 00
Carnations, fancy and special	3 00
" common	50@ 1 00
Callas, per doz.	40@ 50
Cattleyas	20 00@40 00
Daisies	50@ 1 00
Gladiolus	15 00@20 00
Gardenias, per doz.	1 00@ 3 00
Iris German	25@ 1 00
Lilac, Cut, per bunch	50@ 1 00
Lilac Outdoor, per bunch	25
Lilium Longiflorum	3 00@ 5 00
Lily of the Valley	1 00@ 2 50
Mignonette, per doz.	20@ 50
Snapdragons (Antirrhinum) doz.	10@ 15
Stocks (Double white) per bunch	15@ 25
Sweet Peas, per doz bunches	20@ 75
Tulips	50@ 1 50
Asparagus, doz. bunches	1 50@ 2 50
Smilax	10 00@15 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK:
Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. **Tel. 4878 Madison.**

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WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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WHOLESALE FLORIST,

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39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., To out-of-town Florists: We are in the Heart of **New York**

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK.

Consignments Solicited.

Telephone 7062 Madison Square.

Philadelphia.

MARKET VERY DULL.

Summer dullness has been the rule the past week, there being nothing of any importance transpiring that called for elaborate decorations. Under these conditions there was a great accumulation of flowers, roses particularly being greatly in excess of the demand. All sorts have begun to show the effects of the hot weather and for choice work the eastern imported stock now has the call. Carnations, while light in color have been fine in every other respect. Some exceptionally fine blooms of Enchantress and Dorothy Gordon were seen the past week. Sweet peas are in good demand, selling as well or better than most other flowers. Spanish iris has been quite a factor the past two weeks, the yellow taking the place of daffodils. The outside shrubbery is now in and is useful for window decorating and where quantity is most desired. Snowballs and duetzia will have quite a run for the next 10 days. Peonies are in, Mrs. Shellem sending the first local stock May 12 to the Leo. Niessen Co. Decoration day will see them at about their height. Many orders for this holiday from out-of-town points have already been taken and business is expected to fully equal if it does not exceed that of last season. There will be quantities of stock at moderate prices which should induce buying as the demand is likely to be larger than ever. The bedding plant men say that business has never been better and they question if there will be anything left after the holiday. There appears but little new in this line, the standard sorts of geraniums and coleus being the most popular. The double lobelia is said by some to stand the sun better than the old single and to be useful as a border plant; if so it will be a great acquisition.

NOTES.

— Ruppert, the city salesman of the H. A. Dreer Co., says they are having an unusually busy season. Hundreds of thousands of herbaceous plants have gone out and the call is still for more. Roses in pots are sent out by the tens of thousands. These are a specialty here and this is where the largest stock in the country is to be found.

Wm. McKissick & Bros. are running eastern rose stock and carry a full line of American Beauty. These are now 50 per cent better than the local stock and give great satisfaction to the buyers. Among other things they promise a fine stock of peonies for Decoration day.

Wallace Faust and Charles Malby, late with Keegan, have taken one of the stores being fitted up under the Hotel Edouard on Thirteenth street above Walnut, which they expect to open in a few weeks as soon as alterations are made.

The Leo Niessen Co. says orders for flowers for Decoration day are coming fast. Carnations, peonies and roses are the leaders. This firm fully expects to eclipse its great business of last season.

Robert Craig says the demand for crotons is larger than ever. Each season his stock is increased but he never seems to keep ahead of the demand.

The sympathy of the trade goes out to S. S. Skidelsky on the death of his wife.

K.

POUGHKEEPSIE, N. Y. — Benjamin Tremper is building a new greenhouse.

READING, PA.—A sneak thief stole between $10 and $12 from the cash register of J. C. Bauder, 913 North Tenth street. The proprietor was temporarily absent at the time. A barefooted boy was seen to run from the place.

Baltimore.

GOODS HARD TO SELL.

Trade the past week was exceedingly quiet, and it was hard to push any kind of products on the consumers. Bedding out is behindhand, the weather not having been propitious and plants go slowly. A good many families are already leaving town, and the season of inaction seems to begin at an earlier date each successive year. The range of the thermometer for the week varied from 36° to 90° a most unpromising condition for the gardener, and the absence of rain is being already seriously felt, the drying winds quickly evaporating from the upper surface the moisture from the showers that fell. There have been no funerals requiring large supplies and the social season is drawing to a close. The demands for the hospitals and the ordinary requirements for social affairs, and weddings not ultra-fashionable, make up about the sum of the daily requirements.

NOTES.

Wm. Madsen, of Govanstown, will it is understood, retire with this season from active business. He has been quite successful, accumulating a neat competence and possessing a well-ordered and productive establishment. This place will be taken over, it is said, by Hans Andersen who has been with Mr. Madsen for several years and who will carry on the business of growing cut flowers. Mr. Madsen is a Dane who has been in this country many years, engaging at first as gardener on private places, always enjoying the confidence of his employer. Later he went into trade on his own account, increasing his plant from time to time until a year or two ago, when he began to contract his operations and tore down one or two of his rose houses. He made a specialty for some time of American Beauty roses, but latterly gave them up and grew Bridesmaid, Bride and Golden Gate, and all of them of a character to give him reputation for their quality. He has no other family than his wife and feels that he has earned the rest which he can now enjoy before old age overtakes him. He has the esteem of the neighborhood in which he has long lived, and all who know him wish him many years of health and comfort.

That the daily papers take more and more interest in floral affairs now-a-days is illustrated by the fact that the Sun of this city publishes an engraving of wreaths made in Berlin to the order of the Baltimore and York Oratorio society to be placed on the grave of Felix Mendelssohn, the great composer, on the centennial anniversary of his birth. The pieces were made by one of the leading florists of the German capital and were each six feet in diameter and composed of roses, lilies, lily of the valley and palm leaves, tied with black and gold, and blue and white ribbons, the colors of the states of Maryland and Pennsylvania.

The determination of Grace Church on Broadway, New York, to adopt at a memorial of its 100 years of existence, a beautiful garden, is surely a sign of advancement of taste, quite at variance with prevailing modes of such monuments. Here the dwellers of the great hot city, citizens and strangers, will find beauty and refinement, repose and cooling freshness, which will appeal to the heart, the memory and the imagination.

The state forester of Maryland recommends the establishment of a state nursery for growing trees to supply the future needs which the restoration of our denuded forests will require. Just how the commercial nurseries will view this proposition is unknown as yet.

The public resorts are vieing this year with each other in the decorations of their grounds. Amongst the most elaborate bedding is that of the Electric park, the contract for which has been awarded to E. A. Seidewitz.

S. B.

Boston.

TRADE UNCERTAIN.

Between prolonged periods of absolute quiet a flicker of activity has served to keep stock moving Graduations and commencement exercises have already begun and we quickly realize that the season is nearer over than we would like to believe. Funeral work is irregular. Stock is in good shape generally speaking and prices are low. Cut flower trade is picking up and the public is more inclined to open its purse than for a good many months past. Roses are the chief item of interest and a few excellent attractions are displayed. Richmond, Killarney and American Beauty are the leaders. The greater part of the Beauty stock is of medium quality only, and consequently within reach of the discriminating public, who now have the advantage so seldom offered. The hot weather has made carnations show untoward effects. They have been coming in more rapidly than they could be disposed of, and their shortening up is expected to follow very soon. The local market has never been so eager for sweet peas and never have the receipts been so liberal as this spring. A number of growers have remarkable success in this line, and we may expect a well-filled market next season. Outdoor planting is booming with the good weather and contractors for this sort of work report this business 50 per cent better than last year. The demand for bedding stock is correspondingly large.

NOTES.

Mrs. John Galvin, wife of the late John Galvin and mother of Thomas F. Galvin died May 16 at the family homestead on Washington street, Dorchester. Death was the result of old age and brought to a close a most useful life of 94 years. While somewhat infirm for the past year Mrs. Galvin retained her faculties to a remarkable degree, the end being peaceful and resigned. The funeral was held May 18, the display of floral tributes being of great beauty.

Welch Bros. are brimful of confidence in the gradual resumption of business along the most solid lines, and are preparing for the Memorial day trade with unusual vigor. Orders to date are far in excess of the same period of last year.

Chas. Robinson of the H. M. Robinson Co. concern has just completed his jury term which has occupied the greater part of his time the last six weeks.

H. A. Wheeler of Waban is cutting some fine cattleyas.

B.

HARRISBURG, VA.—John Fallon of Staunton has purchased a lot on Collicello street and will begin building greenhouses there shortly.

ITHACA, N. Y.—With $30,000 appropriated by the state legislature for the purpose, new greenhouses are to be built for the Department of Horticulture. They will stand on the slope southeast of the agricultural college buildings, just below the Carnegie filtration plant and north of the new athletic field. This ground slopes to the west and will be terraced. Between the greenhouses and the athletic field will be a broad parkway. The old greenhouses of the department, at the south barn, will be abandoned. The work of beginning the new buildings has been delayed by a difficulty in fitting the department's needs to the appropriation.

Peonies for Decoration Day
Write us for prices.
In Medium Stem Roses
We can give you the best value for your money.

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Wholesale Florists,
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AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants
American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.
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BEAUTIES, PEONIES, SNAPDRAGON,
ORCHIDS, ROSES, VALLEY,
MINIATURE GLADIOLUS.
THE McCALLUM CO., Inc., PITTSBURG.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At New York.

On account of the light attendance and general lack of interest, the bowling team is on the verge of collapse. All who are interested in keeping up a team are requested to meet at Thumn's Alleys, Thirty-first street and Broadway on the night of May 28.

Manda	199	206	198	
Berry	164	149	146	
Scott	119	176	103	
Faulkner	125	170	142	
Shaw	156	120	112	

At Washington.

BOWLING.

In the second series of the two-man tournament, Shaffer and McLennon dropped the first two games by the narrowest of margins and then took the next three. Scores:

Shaffer	180	187	204	195	191— 957
McLennon	170	215	202	179	201— 967
Totals	350	402	406	374	392—1924
Lemmon	195	178	180	182	180— 915
Bunn	159	226	190	182	200— 957
Totals	354	404	370	364	380—1872

G. S.

At Louisville.

The Florists' bowling club met Monday night, Capt. Doerr's team defeating Capt. Ross Walker's all three games. Following are the scores:

Ross Walker	158	146	188
Geo. E. Schulz	131	108	107
Andy Brand	104	122	123
Louis Kirch	108	95	135
Karl Rabe	100	126	114
	601	597	672
James Doerr	124	148	182
Jos. Wettle	93	89	163
Geo. Stark	123	140	149
Fred L. Schulz	146	139	163
Jacob Schulz	124	126	132
	610	642	789

Ross Walker was high with 188 and Jos. Wettle was low with 89.

F. L. S.

Choice Assortment of Cut Flowers will be found here.
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ABSOLUTELY THE BEST POSSIBLE SERVICE.

Wholesale Flower Markets

PHILADELPHIA, May 19.	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, May 19.	Per 100
Roses, Beauty, specials	15 00@25 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 50@ 3 00
Iris	4 00@ 6 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	4 00@ 6 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, May 19.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—
Carnations, Roses, Beauties,
All Seasonable Flowers.
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15 Diamond Sq., PITTSBURG, PA.
Mention the American Florist when writing

J. B. Murdoch & Co.
714 Penn Avenue,
PITTSBURG, PA.
All Seasonable Flowers.
Mention the American Florist when writing

At Chicago.

Bowling, May 14.

M. Krause	104	117	112
A. Zeck	143	143	149
Wm. Groff	138	157	156
Jno. Kruchten	138	88	151
E. Schultz	120	115	123
I. Vogel	85	98	83
	728	718	774
Dan Erickson	184	140	117
S. F. Pasternik	154	169	148
O. Goerisch	146	107	121
Jno. Michelsen	137	108	107
N. Jensen	106	100	90
Jno. Zeck	160	235	174
	887	859	757
Farley	108	86	109
Vaughan	172	145	139
McKellar	108	134	140
Wolf	213	136	146
Ayres	129	143	148
Armstrong	117	99	105
	847	743	787
G. Pieser	130	162	145
H. Kruchten	133	160	164
P. Erickson	80	118	128
Mike Fink	99	86	94
Geo. Asmus	178	182	153
Bergman	128	147	140
	748	855	824

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WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
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Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
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Write, Telephone or Telegraph. All orders given prompt attention.

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CUT FLOWERS
For Tourists and General Trade.
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URIAH J. **VIRGIN,** —838— CANAL ST.

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329 FOURTH AVENUE.

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Phone 2416 Main 14th & Eye Sts., N. W
Write, Telegraph or Telephone.

Louisville, Ky.
JACOB SCHULZ,
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At the annual meeting of the Florists' Club held May 5 at the home of Frank Baker on Court street, at which 53 members were present, the following officers were elected:

Frank J. Baker, president.
Seward Hakes Ilion, vice-president.
J. C. Spencer, secretary.
Chas. F. Seitzer, treasurer.

BORDENTOWN, N. J.—Frank Bennett has a good deal of landscape work in hand, including the planting of the Inn grounds at Roible.

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Only the Best
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Canada's Best Known and Most Reliable Florist.
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Established in 1857.
Wittbold FLORIST
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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

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Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

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Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.
John G. Heinl & Son,
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Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

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FRANK F. CRUMP,
Wholesale and Retail. Florist.

Week Ending May 29.

May 24, Main, Baltimore-Bremen.
May 25, Calabria, New York-Naples.
May 25, Caronia, Liverpool-New York.
May 25, Chicago, Havre-New York.
May 25, Rotterdam, New York-Rotterdam.
May 26, President Grant, New York-Hamb'g.
May 26, Mauretania, New York-Liverpool.
May 26, Adriatic, New York-Southampton.
May 26, Oceanic, Southampton-New York.
May 26, Canopic, Genoa-Boston.
May 26, Lake Erie, Liverpool-Montreal.
May 27, Koenig Albert, Genoa-New York.
May 27, Prinzess Alice, New York-Bremen.
May 27, Rhein, Bremen-Baltimore.
May 27, Oscar II., New York-Copenhagen.
May 27, C. F. Tietgen, Copenhagen-N. Y.
May 27, Italia Naples-New York.
May 27, La Touraine, New York-Havre.
May 27, Canada, Liverpool-Montreal.
May 27, Cincinnati, Hamburg-New York.
May 27, Bulgaria, New York-Genoa.
May 28, Victorian, Montreal-Liverpool.
May 28, Virginian, Liverpool-Montreal.
May, 28, Numidian, Boston-Glasgow.
May 28, Laurentian, Glasgow-Boston.
May 28, Menominee, Philadelphia-Antwerp.
May 28, Cedric, Liverpool-New York.
May 29, Duca Di Genoa, New York-Naples.
May 29, Frederich der Grosse, Bremen-N. Y.
May 29, Martha Washington, Trieste-N. Y.
May 29 Sicilian, London-Montreal.
May 29, Caledonia, New York-Glasgow.
May 29, Columbia, Glasgow-New York.
May 29, St. Louis, New York-Southampton.
May 29, St. Paul, Southampton-New York.
May 29, Lusitania, Liverpool-New York.
May 29, La Provence, Havre-New York.
May 29, Vaderland, New York-Antwerp.
May 29, Kroonland, Antwerp-New York.
May 29, Arabic, New York-Liverpool.
May 29, Ottawa, Montreal-Liverpool.
May 29, Lake Manitoba, Montreal-Liverpool.
May 29, K. Augusta Victoria, N. Y.-Hamb'g.
May 29, Roma, New York-Naples.
May 29, Potsdam, Rotterdam-New York.

SPARKHILL, N. Y.—W. C. Duncan has disappeared. He was last seen by his friends on May 4 on the New York flower market.

ALEDO, ILL.—Chas. McChesney reports business good, especially in cut flowers and bedding stock, his trade having greatly increased along these lines.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
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Artistic Designs.
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We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,
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THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

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FLORIST,
Telegraph Orders a Specialty. 218 W. 4th St.

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L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

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J. B. BOLAND
Successor to Sievers and Boland.
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.
C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres., C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

GLADIOLI, Caladium esculentum and fancy leaved caladiums have all sold well this season.

STRINGLESS GREENPOD bean is now in demand for country trade and pretty scarce; so is Burpee's bush lima.

COUNTER seed trade the first half of May is making up for the poor trade during the cold latter half of April.

TOLEDO, O.—The Ohio Seed Co. has made an assignment to Attorney Chas. K. Friedman, giving its assets as $1,000 in personal property.

THE unsatisfactory flowering of many good varieties of named tulips grown under glass in this country this spring is, it is said, especially true of sand grown bulbs.

IN a recent western suit by a broom corn planter who received cane seed instead of broom corn, the judge allowed only the cost of preparing the land. An Illinois case.

NEBRASKA SEED CROPS.—Growers report May 18 as follows: "Spring has been cool and backward, and, until recently, rather dry. At this writing we see nothing to prevent crops going into the ground in good shape."

GOVERNMENT SEEDS.—The new office building of the house of representatives in Washington is said to be overrun with mice attracted by the garden seeds piled up in the members' rooms. Each member receives about 10,000 packages of this rubbish.—Country Gentleman.

MICHIGAN PEAS AND BEANS.—A well known grower writes as follows May 18: "Peas are about all in the ground and some are up. It is too early to make any predictions as to crop prospects. We have a large portion of our bean acreage secured but it cost us something to do it. Seedsmen who contracted early made money by doing so."

COUNCIL BLUFFS, IA.—A highly interesting controversy, involving a question of veracity between the state food and dairy commissioner and the authorities of Iowa State College at Ames has developed here through the filing of an action by the county attorney against the Younkerman Seed Co., charging the company with selling or having for sale alsike clover seed containing the seed of Canada thistle. Alderman Younkerman, head of the seed company, claims the seed in question had been approved by Ames experts and is going to fight the case. —Fairfield Journal.

CHICAGO.—The end of the season finds but few onion sets on hand; winter tops are given away, yellow bottoms $1 to $1.50 per bushel, whites hold up, the few there are selling at about $3.25.—High winds damaged the growing crops of onion sets May 15 pretty badly on all light soils, especially south of the city, the loss being probably 1,000 pounds of seed.—S. F. Leonard of the Leonard Seed Co., sails from New York for Europe on the S. S. Minnetonka June 5.—Leonard H. Vaughan of Vaughan's Seed Store will start on a California trip about June 1. —Seed potatoes are hardly to be had though still in demand at record breaking prices.—Contract prices on the board of trade May 19 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.

James B. Kidd.
Expert Hort. Appraiser at the Port of New York.

James B. Kidd.

We present herewith portrait of Jas. B. Kidd, expert horticultural appraiser at the port of New York and well known to seedsmen, nurserymen and florists from Boston to the confines of Mexico. Mr. Kidd is the first expert in this line to be appointed in the customs department and it is gratifying to know that his work during the time he has been in office has given entire satisfaction to the authorities. The trade trusts him because he knows his business and the government has confidence in him because he is an honest man. Mr. Kidd was appointed in March, 1907.

Wyoming Seed Law.

The Wyoming state agricultural seed (includes farm and garden seed) law passed February 27, 1909, requires that all such seed shall be labeled either PURE, UNCLEANED or MIXED. Seed labeled PURE shall conform to certain percentages of purity and viability and if not, the seller is liable to $100 fine if he cannot show wrong handling or labeling by other parties. The law requires 80 per cent vitality on nearly all seeds. Evidently no seedsman will be safe in selling any seeds in Wyoming under the brand PURE seed. The unreasonable figure of 94 per cent germination is required on corn.

[How do the Wyoming authorities expect the seller to be able to follow the seed around the state to be able to testify how the buyer has stored and handled or mixed it?—ED.]

Wisconsin Peas and Beans.

Writing May 18 growers report that the price on contracts has advanced above any previous season and that it has been extremely difficult and expensive to place contracts even at these high prices. Everywhere the weather has been cool and backward and has caused the farmers much anxiety. Some seed has already rotted in the ground and some is not sown yet. A small percentage of the farmers have reported favorably regarding present condition of the pea crop.

Dutch Bulb Growers' Society of Haarlem

The following awards were given by the tulip and mixed bulbs committees at the recent meetings:

First class certificates to single early tulip, Mr. Burger, pure yellow, oblong-shaped flowers. Raised from single early tulip Verboom (H. Burger); double early tulip, Schoonoord, pure white flowers, raised from double early tulip, Murillo (N. Dames Lisse).

Awards of merit to Cyclamen Persicum, Baroness Burdet-Coutts, large pure white flowers and oblate petals (E. H. Krelage & Son, Haarlem); double early tulip, Boule de Neige (Purity), large pure white flowers resembling the variety Murillo, but of a somewhat rounder form (N. Dames Lisse); single early tulip, Joost von Vondel, rose, with large long flowers, white, feathered rosy, raised from the variety Joost von Vondel (P. Heems, kerk Johr., Rijusburg); single early tulip, Duchess of Connaught, clear rosy-red flowers (Y. Y. de Langen, Bevenijh). B.

French Growers' Action on Prices May 2.

Oignons à fleurs. — On nous communique : Les membres de l'Union des producteurs d'oignons à fleurs, dont le siège social est place de l'Eglise, 2, au Pont-du-Las, ont fixé dans leur réunion du 2 mai ainsi qu'il suit le prix de leurs oignons de jacinthes : le 11 à 12 centimètres, 50 francs le mille ; le 12 et au-dessus, 75 francs le mille. Marchandise prise et acceptée au jardin du producteur. Paiement au comptant sans escompte. Les autres bulbes ont été laissées aux prix courants. — *Le président*, BLANCHARD.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS MICH

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

Originators Winter Flowering

SWEET PEA SEED

All colors. Send for list and prices.

ANT. C. ZVOLANEK,

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S. M. Isbell & Co.

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Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,

Correspondence solicited.

Write for Prices on Surplus Stocks for Immediate Shipment.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW

PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1 00	50c

O. V. ZANGEN, Hoboken, N. J.

Waldo Rohnert

GILROY, CAL.

Wholesale Seed Grower

Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety. Correspondence solicited.

The Everett B. Clark Seed Co.

Growers for the Trade.

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches; Michigan, Wisconsin.

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PANSY SEED

176 First Prizes, the highest awards Chicago, Paris, London, Dusseldorf.

1000 Seeds, finest mixed....25c
1 oz. " " " ..$2.25

Price list on application. Cash with order

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Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Vick Quality Asters

The Standard of Excellence.

Introduced by us grown everywhere

Vick's Late Branching (8 colors.)
Vick's Snowdrift
Vick's Lavender Gem
Vick's Daybreak
Vick's Purity
Vick's Violet King

And many other money-making varieties.

Other Recent Introductions.

Vick's Early Branching
Vick's Royal Purple
Vick's Upright White
Vick's Cardinal

See our adv. in Christmas Number

New Varieties

VICK'S MIKADO PINK.

Just the thing to grow between the extra early; and late flowering sorts. Sold this year by packet only, 25 cents each.

VICK'S IMPERIAL LAVENDER

Similar to Daybreak, except in color. 1-64 oz. 40c.; 1-32 oz. 60c.; 1-16 oz. $1.00; ⅛-oz. $1.50 ¼-oz. $2.50; ½-oz. $4.50; 1-oz. $8.00.

VICK'S NON-LATERAL BRANCHING

A new strain. Every stem bears an exhibition flower. No lateral side buds, 1-32 oz 25c.; 1-16 oz. 40c.; ⅛-oz. 60c.; ¼-oz. $1.00; ½-oz. $1.75; 1-oz. $3.00.

Send for our Aster Book for Florists.

James Vicks' Sons, Rochester, N. Y.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

April is the month to sow this seed.

ASPARAGUS PLUMOSUS NANUS,

Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Green houses, Trial Grounds and Nsurery, Western Springs, Ill.

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors	⅛-oz.	60c; oz.	$4.00
Pure white	⅛-oz.	75c; oz.	5.00

H. E. FISKE SEED CO.,

Faneuil Hall Square. BOSTON, MASS.

MICE PROOF SEED CASES

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Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

Fertilizers.

We have repeatedly called attention in these columns to the fact that wherever fruit is the object, such fertilizing materials should be used as will induce fruit formation. Foremost among these are phosphates and all animal manures, for nearly all are deficient in phosphates. Hence the common belief that manure produces too much leaf and vine and little fruit. The fact is, manure can be employed in enormous quantities, if properly balanced by phosphates and potash. As a rule we may say nitrogen stands for quantity, phosphorus for earliness and potash for quality; or, in other words, nitrogen for foliage, phosphates for flower and fruit and potash for eating qualities of such fruit. While we must know that all three are required for successful plant growth, the fact that either one element in oversupply produces certain results needs careful consideration. By withholding nitrogen and adding phosphates excessively we can produce a precocious, yet apparently stunted plant.

The market grower does not care for fine-drawn lines. He should supply his plants generously with humus, either by the use of manure or green crops plowed under, which will furnish the nitrogen and then supply ample potash. For this sulphate of potash, high grade is preferred. For most leaf crops, such as lettuce, cabbage, celery, etc., manure and some additional potash do well; for cucumbers, melons, tomatoes, potatoes, sweet corn, etc., we must also add phosphates. We like to apply manure with a manure spreader, say 10 tons per acre, and to each load of manure we add 100 pounds of fertilizer analyzing about 4 per cent nitrogen, 8 per cent phosphate and 12 per cent potash. This as a base. Then after crops are started and we know just what we have to deal with we supplement the above with additional applications of nitrate of soda, sulphate of potash, bone meal or Peruvian guano, or the above in mixture. Pulverized sheep manure makes a good base.

MARKETMAN.

Outdoor Watering.

Judging by the numerous water systems put in on every hand gardeners do not wish to repeat last year's experience. While a good water supply is a necessity to good gardening, there are two sides even to this matter. The inexperienced think once they have the water all is well. In these notes we will try to point out some of the difficulties. No one should undertake to water an outdoor crop unless he can do so thoroughly, and keep it up if necessary. Insufficient and irregular watering does more harm than good. Far better try it on a smaller scale, and handle that well.

Some crops respond readily to watering. These are lettuce, celery and radish; without a constant supply of moisture these are unfit for the table. Successful watering depends greatly upon the nature of the soil. A sandy soil or sandy loam is most suitable; a soil full of humus holds moisture well and will respond to watering; any stiff clayey land is poorly adapted to watering and hardly worth the trouble. The best way to treat clayey soils is to mulch them with manure previous to watering.

A great factor is fertility. Watering is an exhaustive process. Where continuous watering is necessary, feeding is in order either with commercial fertilizers or topdressing of old manure. Many times well water contains lime. The constant application of such water would soon impoverish the soil without additional fertilizing. The final danger is overwatering, just previous to a rain. We may have a long dry spell and finally conclude to water and just then nature steps in by sending heavy rains. For this there is only one remedy—ample drainage. There are successful men who regret having invested so much money in watering outfits. They depend upon plenty of humus and fertilizers and constant cultivation. Where only one crop per season is grown the cultivation principle works very well; however, when we attempt double and triple cropping, an ample water supply is necessary. For this there is no better method than to thoroughly soak the land just after one crop is removed, thus replenishing the subsoil moisture.

MARKETMAN.

Mushrooms in Formosa.

Consul Carl F. Deichman, of Tamsui, reports that a company organized for the purpose of encouraging the growth of agricultural products in Formosa, has been successfully experimenting in the cultivation of a mushroom which is largely used by the Japanese and Chinese for its high quality. The consul writes as follows concerning the outcome of the experiment:

"This mushroom is extensively grown in Japan, but until the Formosa company started cultivating it, a little over a year ago, none was raised in Formosa, although the climate in the higher mountain regions is well adapted to its growth, and the tree known as shii, to which the mushroom attaches itself, is found in large numbers in these mountains. The shii is a species of oak (Quercus cuspidata). The tree is cut down and trimmed of its smaller branches and rice water thrown over it at intervals to prepare it for the mushroom. In Formosa it takes about one year to get the first crop of mushrooms, while in Japan

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10 000 and over	85
Beets, Crosby, Egyptian and Eclipse	1 25
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 25
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	3 00
Chinese Giant and Cayenne	50c per 100

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

Fischer's Grand Freesia

PURITY

The Unequalled, White Decorative Freesia :: ::

Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed avoiding all danger of mixture, as **Purity** does not come true from seed. Dealers getting their stock from me will always be sure of getting the purest stock.

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San Gabriel, R. F. D., Calif.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

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DAHLIAS.

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this winter or early spring.

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Successors to L. K. Peacock, Inc. ATCO, N.J.

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Trade Mark. **American Spawn Co., St. Paul, Minn**

Vaughan's Lilium Harrisii

Careful Selection of Both Plants and Bulbs.

WITH a good crop of **"Harrisii"** in sight, it would be well for growers to remember that Easter comes on March 27th in 1910, which makes it necessary to force a lily that you can depend on getting in on time. Remember, while we do not claim that our **"Harrisii"** are absolutely free from disease, or that every bulb will produce a perfect plant, we do claim that our grower's efforts in the way of spraying and rogueing are producing results, our stock now being freer from disease than ever before and of genuine **"Harrisii"** type — in fact, the best general crop grown on the Island of Bermuda.

Vaughan's Seed Store,

CHICAGO: 84-86 Randolph St. NEW YORK: 25 Barclay St.

it takes three. They improve in size and flavor up to the third year.

"This mushroom was grown in Shinchiku prefecture, about 40 miles south of Taihoku, but was not of very good quality, the climate apparently being too warm. They are now growing it in the mountains of Byoritsu, about 6,000 feet above sea level, where the climate is about the same as that of the districts where it is grown in Japan, and the yield is of superior quality. The first crop, just gathered, was of excellent quality, though the amount was small—about 650 pounds. The price received for it averaged 30 cents per pound. The price in Taihoku is 50 cents per pound. The company estimates that the spring crop will amount to 10,000 pounds. They expect to increase the production as well as improve the quality in order to fill the demand in Formosa, as well as export it to Japan and other countries, as it has been found to be a very profitable enterprise."

Prices of Indoor Vegetables.

The prices of indoor vegetables at leading points May 15 were as follows: New York, cucumbers, 50 cents to $1 per dozen; mushrooms, 50 cents to 65 cents per pound; mint, 35 cents per dozen bunches; radishes, $2 per 100 bunches; rhubarb, $1.50 to $1.75 per 100 bunches; tomatoes, 15 to 25 cents per pound; grapes, $1 pound. Chicago—Cucumbers, $1 to $2 per dozen; head lettuce, $3 to $6 per barrel; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, $1 to $3 per pound; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City—cucumbers, 65 cents to $1 per dozen. Cincinnati—Cucumbers, 75 cents per dozen; Boston—Cucumbers, $4 to $5 per box.

Wisbech (Eng.) Bulb Flower Trade.

Not enough money is being returned to pay for the planting and lifting of the bulbs. Here we are cutting over 1,000 boxes, of 30 to 36 bunches of 12 blooms weekly. The narcissus is strongly represented by N. maximus, N. poeticus is yet to come in, several acres being grown. May flowering tulips are now a busy line, Golden Crown being a specialty. The recurved bright-yellow Retroflexa is also well in. The tulip fields in the early morning are a beautiful scene. S.

MICHELL'S Primula Seed

Primula Chinensis Fimbriata

	½ Tr. pkt.	Tr. pkt.
Alba Magnifica	$0 60	$1 00
Chiswick Red	60	1 00
Holborn Blue	60	1 00
Kermesina Splendens	60	1 00
Rosy Morn	60	1 00
Michell's Prize Mixture, beautifully fringed varieties	60	1 00

Primula Obconica Grandiflora

	Tr. pkt.
Compacta	$0 50
Fimbriata (1-16 oz., $1 25)	50
Gigantea (Arendsi)	50
Kermesina (1-16 oz., $1 50)	40
Rosea (1-16 oz., $1 00)	30
White (1-16 oz., $1 25)	30
Mixed (⅛ oz., $1 00)	30

CYCAS REVOLUTA

Strong, healthy trunks. 25 lbs., $2 25; 100 lbs., $8 50; 300 lbs., $24 00.

HEADQUARTERS FOR ASPARAGUS PLUMOSUS SEED

GREENHOUSE GROWN		LATH HOUSE GROWN	
100 seeds.....$0 50	5,000 seeds..$17 50	100 seeds $0 40	5,000 seeds..$12 50
1000 seeds..... 3 75	10,000 seeds.. 32 50	1000 seeds 2 75	10,000 seeds.. 23 00

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A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

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WEST GROVE, PA.

GLADIOLI

Shakespeare, Isaac Buchanan, Octoroon, Pactole, May. Fine seedlings.

Write for prices of above and

Lilies, Iris, Madeira Vines

and Other Bulbs.

E. S. MILLER,

Wading River, Long Island, N. Y.

Mention the American Florist when writing

STERLING, ILL.—The contract to furnish and plant flowers in the parks was let May 11 to the Sterling Floral Co.

DENVER, COLO.—The greenhouses of James Benton at 901 Jason street, were almost entirely destroyed by fire May 5.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N.Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June 9-11, 1909

PYRUS JAPONICA is one of the finest flowering shrubs of the week.

THE lime-sulphur solution is proving very effective against San Jose scale in Arkansas.

SEASONABLE weather has come on rapidly and at this date the shipments of nursery trade are about over for the season.

RIBES AUREA in addition to its pretty yellow flowers, has a delicate fragrance which can be felt for quite a distance. It is now at its best in the Chicago parks.

CLARKSVILLE, MO.—The Stark Bros. Nursery & Orchard Co. has increased its holdings by purchasing the McCune farm, containing 184 acres. The price paid was $18,000.

PASADENA, CALIF.—M. C. Armour of Chicago has purchased 65 acres of land in this vicinity which he proposes beautifying and making into one of the finest estates in the west.

FULLY 5,000,000 orange trees are being planted in Louisiana and east Texas this spring as a result of the inroads of the boll weevil, acording to reports of seed and tree dealers in New Orleans.

THE Pennsylvania railroad is planning to set out more than 1,000,000 trees this spring at various points in New Jersey and Philadelphia. The locust plantations are being made over and a great deal of ornamental shrubbery is being planted around stations and other places along the line.

INDIANAPOLIS, IND.—F. R. Harritt has completed large plantings of shrubs and ornamental trees on his farm; he intends pushing the wholesale end of the nursery business. Mr. Harritt is expecting to cut a fine crop of peonies this spring; he also plans the erection of a bungalow for this summer.—J.

THE Judas tree or red bud is in flower around the Chicago parks, planted in some cases, as at Jackson park, with a background of green provided by other shrubs. This is the way it should be planted as, owing to its flowering on the leafless wood, it does not make a good display alone. Such a bright and showy subject should be planted more freely, as it flowers before the majority of species are in and is perfectly hardy.

THE fourteenth biennial meeting of the American Pomological Society will be held at St. Catherines, Ont., September 14-16 on a joint invitation of the Ontario Fruit Growers, the Niagara District Fruit Growers and the St. Catherines Horticultural Society. The Ontario government has recognized the importance of the coming of this society to Canada by placing a substantial sum of money at the disposal of the committee on arrangements.

The Weeping Mulberry.

The weeping mulberry, illustrated on this page, is fairly popular and frequently seen on lawns and in parks. It is one of the hardiest and one of the best of weeping trees and may be recommended with confidence for either sheltered or exposed positions. Even in winter, when the foliage has fallen, its distinct habit and the cheerful light brown tint of the bark make it welcome in the landscape especially near buildings or water. It thrives on any kind of soil and makes a very fine growth in alluvial or sandy bottoms.

May Flowering Trees and Shrubs.

NOTES FROM ROCHESTER, N. Y.

The season is at present from 10 to 12 days later than the average. The weather has been remarkably chilly with an unusual precipitation of rain. Only during the past two or three days has there been any genial warmth in the air. The handsome Himalayan shrub, Corylopsis spicata, came into bloom May 1 and is in good condition at the present time. The spikes of yellow flowers are attractive. Corylopsis pauciflora from Japan flowers at the same time, and the yellow flowers are quite showy. Contrary to the meaning of the specific name there is no paucity of blossoms on a well grown individual.

The Weeping Mulberry.

Forsythia Fortunei, the first of the golden bells to bloom, came into flower May 1. F. intermedia followed in about two days, and F. viridissima in about two or three days more. F. Europea, a new species recently introduced to cultivation, flowers at the same time as the latter, is considerably hardier and the yellow blossoms are a little more showy. Magnolia stellata, which we referred to in our last notes as showing signs of arrested development on account of the cold weather, finally came into good flower on May 1. The blossoms were somewhat stained, but they made a good display. M. Kobus, from Japan, was in full flower May 6. The flowers are pure white and are very showy. It is, however, a remarkably shy bloomer and individuals will attain considerable size and age before producing a single bloom. It has very handsome, ample foliage and is quite hardy. M. conspicua came into flower May 7 and was in full bloom on May 10. The pure white flowers are exceedingly beautiful, and it is one of the choicest of the magnolias. M. Soulangeana followed two or three days later. The somewhat cup-shaped flowers splashed with purplish red on the outside are quite showy. M. Norbertiana flowers simultaneously and much resembles M. Soulangeana. Other forms that flower about the same time as the two last, are M. amabilis with whitish flowers stained with deep points; M. alba superba with whitish flowers, and M. Alexandrina with very showy rosy end blossoms. M. speciosa, which is grown considerably around Rochester, is now coming into flower, May 14. The flowers are slightly stained with purplish red on the outside. Some forms that bloom at the same time as M. speciosa are M. Verbania with flowers that shade from purplish red to pink on the outside; M. rustica flore rubra with very showy rosy red flowers on the outside, and M. Brozzoni with long handsome whitish blossoms. These magnolias are indeed the gems of American gardens.

Lonicera Standishii and M. fragrantissima are still displaying their whitish fragrant blossoms. L. cœrulea was in full bloom May 9, and M. gracilipes with its longish tubed deeply rose tinted flowers was in full bloom on May 13. The Norway maple came into flower on May 8 and was about in full flower on May 11. The yellowish flower clusters are quite attractive. In a normal season the Norway maple is usually in full flower about April 30. The sugar apple was displaying its light yellow flower clusters on May 11.

The iron tree (Parrotia Persica) with its inconspicuous blossoms showing dark crimson stamens, was in flower on May 5. The rare Euptelea polyandra (the staminate form) with the flower clusters of reddish anthers, but not at all conspicuous, was in flower on May 6; and the remarkably handsome tree, Cercidiphyllum Japonicum (the staminate form, we have not got the pistillate) with the clusters of reddish stamened flowers, was in bloom on May 6. Spiræa Thunbergi was in full bloom on May 10, and S. arguta followed about two days later. S. arguta flowers more profusely with us than S. Thunbergi.

The large-toothed-leaf poplar (Populus grandidentatum) and the American aspen poplar (P. tremuloides) were in bloom on May 6. The Carolina poplar was in full flower on May 3. The long drooping male catkins are quite attractive. The Chinese cherry (Prunus tomentosa) was in full bloom May 7. The pinkish flowers are very showy. This forms a dense small tree, or tall spreading bush, and is highly ornamental. The Japanese cherry (Prunus psuedo-cerasus) came into bloom on May 10. The deep rose pink flowers are about one and a half inches to two inches in diameter. This is the wild form introduced from Japan by Dr. C. S. Sargent; but we understood from Dr. Sargent lately that this is after all perhaps another species and not the true P. psuedo-cerasus.

Prunus subhirtella* came into bloom on May 7, and is still in good flower, May 14. The upright branches are densely covered with the soft pink flowers and it is conspicuously ornamental. The Japanese weeping cherry (Prunus pendula) has been in full bloom since four or five days, and the drooping branches wreathed with the whitish pink flowers are very attractive.

The wild apricot (Prunus Armeniaca) was in full flower May 10. The branches are thickly covered with the pinkish white flowers and it is very pretty. A Japanese apricot received here from the Arnold Arboretum (P. Mikado) with numerous showy pink blossoms was in full bloom on May 6. the Siberian apricot (P. Sibirica) was in full bloom on May 7. The deeply pink flowers, about one and a half inches across, are conspicuous.

The cherry plum (Prunus cerasifera) and its well known purple-leaved form (P. Pissardi of nurseries) were partly in flower May 7 and are now passing out of flower. The Allegheny plum (P. Allegheniensis) came into flower on May 9 and the flowers are now fading. The Japanese plum (P. triflora) with the branches thickly covered with the small cup-shaped blossoms was in full flower on May 12 and is now in good bloom. Prunus monticola, with showy white flowers and rather prominent yellow anthers is now in full flower. The Canada plum (P. nigra) is now at its best and makes a good floral display. The Chickasaw plum (P. augustifolia) is now in fine flower.

The handsome double flowering Chinese plum (P. triloba) is now coming in flower. The clear rosy pink blossoms are very showy. The flat or Peento Peach (Prunus Persica var. platycarpa) is now in full flower and the pink flowers are quite showy. This was received two or three years since from Dr. Sargent, who lately procured it from Pekin, China. The arborescent amelanchiers are now in full flower, and the Japan quinces in numerous variety are just coming into bloom. The Chinese lilac (Syringa oblata), the earliest of all lilacs to bloom, is now commencing to open its pale and fragrant blossoms. JOHN DUNBAR.

*Prunus subhirtella is given as synonymous with P. pendula in Bailey's Cyclopedia; or it is spoken of as P. subhirtella Miq. in part. The plant we have here under that name came from Dr. Sargent, and it does not appear to have anything in common with P. pendula. I suspect that investigations at the arboretum may have determined a true P. subhirtella of Miquel.—J. D.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

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(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
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	Field Per 100	3-inch 100	Seedl. or tr. 100
Aquilegia (Columbine)	$6 00	$4 00	$1 50
Anemone (Windflower)	6 00	5 00	1 50
Asclepias, Tuberosa and Hallie	6 00	5 00	3 00
Bocconia Japonica	6 00	4 00	
Campanula (Bellflower)	6 00	4 00	1 50
Coreopsis Lanceolata	5 00	4 00	1 50
Delphinium (Larkspur)	8 00	5 00	2 00
Dielytra Spectabilis (Bleeding Heart) and Formosa	6 00		
Digitalis (Foxglove)	6 00	4 00	2 00
Echinops (Globe Thistle)	5 00		
Funkias, mixed	6 00		
Gaillardia Grandiflora	5 00	4 00	1 50
Grasses, American Pampas	6 00		
Gypsophila	6 00	5 00	2 00
Physostegia	5 00	3 00	
Pinks, Hardy Garden	5 00	3 00	2 00
Potentilla	6 00	5 00	2 00
Rudbeckia	6 00	4 00	1 50
Shasta Daisies	6 00	4 00	
Statice	6 00	5 00	
Stokesia	6 00	4 00	1 50
Thalictrum	6 00		
Veronica Spicata	6 00		1 50

	Field Per 100	3-inch 100	Seedl. or tr. 100
Violets, Hardy	$5 00		$2 00
Helianthus	6 00	$5 00	
Heliopsis	5 00	4 00	
Iris, German	5 00		
" Japanese	8 00		
Lathyrus	8 00		
Linum	6 00	5 00	
Lobelia	6 00	4 00	2 00
Lychnis	6 00	5 00	2 00
Menthe Peperita	4 00	3 00	1 50
Monarda Didyma	5 00	4 00	1 50
Myosotis		3 00	1 50
Poppies, Oriental	6 00	4 00	2 00
Pentstemon	6 00	4 00	1 50
Phlox	5 00	2 50	2 00
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Platycodon	6 00	4 00	
Pyrethrum	8 00	6 00	
Salvia	6 00	4 00	1 50
Solidago Canadensis	5 00		
Sweet William	5 00	3 00	1 50
Vinca Minor		2 50	
Yucca Filamentosa	6 00		
" 3-year	10 00		

The Mosbaek Greenhouse Company, Onarga, Ill.

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We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair
2½ ft.	$2 00	$3 75
3 ft.	2 50	4 50
3½ ft.	$3 00	$ 5 50
4 ft.	4 00	7 00
5 ft.	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in.	$4 50	$8 00
18-22 in.	30-32 in.	$5 50	$10 00
22-24 in.	32-34 in.	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c. per doz., $4 00
18 to 24 in high.....Each, 60c. per doz., $6 00

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Dwarf Box Edging We offer fine home-grown plants in quanity, at the following prices: 3 to 4-in., bushy $3.00 per 100; $20.00 per 1000. 4 to 5-in., bushy, $4.00 per 100; $30.00 per 1000. 5 to 6-in., bushy, $6.00 per 100; $50.00 per 1000.

Euonymus Radicans Strong, 2 years.....$6.00 per 100
Extra strong, 3 years.....8.00 per 100

THE SHREWSBURY NURSERIES, Geo. A. Steele, Prop., EATONTOWN, N. J.

IF YOU SAW IT IN THE FLORIST SAY SO IN YOUR NEXT ORDER.

Plant Notes.

The bottle-brush, Callistemon speciosus, also known as metrosideros, is one of the most easily grown of the hard-wooded plants, far more so than the ericas and some others of the myrtaceous subjects. It is also extremely showy and sells well when offered in neat, well-flowered specimens in 5-inch pots. Plant growers who wish to try it should obtain some old stock plants of it and strike cuttings, as seedlings do not flower as early or as freely as plants from cuttings. In the south the plants could probably be grown outside in protectors the year around, but in the northern and middle states they should have greenhouse protection in winter and spring.

The newer and choicer hybrids of phyllocactus are among the finest and most select of greenhouse plants, very different from the old varieties. Dozens of named kinds are grown and the colors are remarkably varied and good. There is no difficulty in their culture; they like a moderately rich soil only and careful watering at all times, but not the old style drying off as practiced with cacti generally.

A plant that throws spikes of flower eight feet or so high has a noble appearance in the herbaceous border and Eremurus robustus does this. E. Himalaicus is not quite so strong, but equally beautiful. Strong roots obtained and planted now will flower this season and keep up a display for quite a long time. These are two of the finest herbaceous plants in existence and should be much more grown.

Gloriosa Rothschildiana was well shown at the recent spring show at Philadelphia, the plant being grown by Arthur Griffin of Newport, R. I. It was growing in a 14-inch pan containing eight bulbs giving 32 flowers in all. The gloriosas are very showy and beautiful plants of the lily tribe and worthy of more extended culture.

MARLBORO, MASS.—H. H. Rogers is building a new greenhouse.

BLUFFTON, IND.—A new greenhouse has just been started here by Frank Gardenour.

LOUISIANA, MO.—Stark Bros. Nursery and Orchards Co. has given away thousands of fruit trees, rose bushes and other plants to the school children.

'Mums 'Mums 'Mums

5,000 Golden Glow ready, R. C. and 2½-in.; R. C., $27.00 per 1000; 2½-in., $45.00 per 1000. **2,000 Pacific Supreme** and **White Cloud,** at same price. **Dorner's new Golden Eagle,** $10.00 per 1000. No more Virginia Poehlmann (sold out) until July 1. All standards. Frost, Touset, Enguehard, Golden Wedding, Appleton, Nonin etc., 2½-in., $2.50 per 100, $23.00 per 1000; R. C. one-third less.

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Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

.....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

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We have the following ready for immediate delivery, which are the best for commercial use. We do not include the Exhibition sorts, but will be pleased to quote those desiring such. **25 of a kind at 100, 250 at 1000 rate.**

EARLY.

Clementine Touset.—Second early white, Oct. 20.
Early Snow.—Similar to Polly Rose, Oct. 10.
Glory of Pacific.—Pink, Oct. 15.
Ivory.—White, very popular, Oct. 20.
John K. Shaw.—Ball shaped, pink, Oct. 5.
Monrovia.—Best second early yellow, Sept. 25.
Miss A. Byron.—Ball shaped white, second early.
October Frost.—Earliest large white, Oct. 10.
Pink Ivory.—Second early pink.
Polly Rose.—White sport from Pacific.
Robert Halliday.—Light yellow, Oct. 20.

MIDSEASON.

Col. D. Appleton.—Best commercial yellow, Nov. 1.
Dr. Enguehard.—Pink, easy doer, Nov. 10.
Major Bonnaffon.—Incurved light yellow, Nov. 1.
Mayor Weaver.—Bright pink, Nov. 10.

LATE.

Helen Frick.—Best bright pink, Nov. and Dec.
Mlle. Jeanne Nonin.—Largest white, Nov. and Dec.
John Burton.—Latest pink, Dec.
Minnie Bailey.—Pink, Nov. 20.
Mrs. J. Jones.—Incurved white, Nov. 15.
White Bonnaffon.—Incurved white, Nov. 15.
Yellow Mrs. Jones.—Sport from Mrs. Jones, Nov. 15.
PRICE.—Plants, $3.00 per 100, $25 per 1,000. Rooted Cuttings, $2 per 100; $17.50 per 1,000.

MIDSEASON.

A. J. Balfour.—Dwarf bright pink, Nov. 10.
Mrs. E. D. Smith.—Dwarf incurved yellow, Nov.
Pres. Roosevelt.—Incurved white, Nov. 15.
Sunburst.—Thanksgiving yellow.

LATE.

Intensity.—Bright crimson, Nov. 10.
Venetta.—Incurved white, late bud, Dec. 1.
W. H. Chadwick.—Incurved white, Nov. and Dec.
PRICE.—Plants, $4 per 100, $35 per 1,000. Rooted Cuttings, $3 per 100, $25 per 1,000.
Beatrice May.—Very large white, Oct. 20.
PRICE.—Plants, $5 per 100, $45 per 1,000. Rooted Cuttings, $4 per 100, $35 per 1,000.

NEW AND SCARCE SORTS.

Golden Glow.—Best early yellow, Aug. to Oct.
PRICE.—Plants $4 per 100; $35 per 1,000. Rooted cuttings, $3 per 100; $25 per 1,000.
Pacific Supreme.—An improved Pacific, Oct. 15.
W. J. Crossley.—A crimson to follow Intensity.
PRICE.—Plants, $6 per 100, $50 per 1,000. Rooted Cuttings, $4 per 100, $35 per 1,000.
Chadwick Improved (New).—Pure white.
Mrs. J. Boxall (New).—Incurved pink late.
PRICE.—Plants only $2 per 10, $15 per 100.
Pres Taft (New).—Fine incurved white, Nov. 1.
Gloria (New).—Enchantress pink, Oct. 10.
Mrs. W. E. Kelley (New).—Late bright yellow, Nov. 1.
PRICE.—Plants only $4 per 10, $35 per 100.

POMPONS

Alma.—Soft Lavender.
Emo.—Small bright yellow.
Iva.—Amber.
Kent.—Dwarf yellow.
Klondike.—Bright yellow.
Orea.—Deep rose.
Skibo.—Chamois early.
PRICE.—Plants, $3 per 100, $25 per 1,000. Rooted Cuttings, $2.50 per 100, $20 per 1,000.

We have many other varieties in stock. If the foregoing does not supply your need, send us a list of your wants. For more complete description see our catalogue, which gives best bud, height of plant and flowering period. **It is free on application.**

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PACKING FREE OF CHARGE

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Dracena Fragrans, 5½-in. pots, $6.00 per doz., 6½-in. pots, $9.00 per doz.
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Pandanus Veitchii. 4 and 4½ in. pots, $35.00 per 100.
Pandanus Veitchii, in 5, 5½ and 6-in. pots. $6.00 $9.00 and $12.00 per doz.
Cibotium Schiedei, 6½-in. pots, at $2.00 each.
Phoenix Canariensis, 7 and 8-in. tubs, $3.00 a pair. 9-in. pots, $5.00 a pair; 9-in. pots, $6.00 and $7.00 a pair; 10-in. pots, $9.00 a pair; 10-in. tubs, $10.00 a pair.
Boxwood Bushes, 6½ and 7-in. pots, $4.00, $5.00 and $6.00 per doz.
Boxwood Bushes, 8 and 9-in. pots, $9.00 and $12.00 per doz.
Boxwood Pyramids, in 12-in. pots and tubs, $3.00 to $4.00 per pair.
Boxwood Pyramids, in 15-in. tubs, $7.00 to $10.00 per pair.
Dracena Indivisa, 2½-in. pots, $5.00 per 100.
Dracena Indivisa, 5½-in. pots $25.00 per 100.
Orange Otaheite, plants 2½-in. pots, $8.00 per 100.
Japanese Dwarf Pine Trees, in fancy pots, $3.00, $4.00, $6.00 and $9.00 per doz.
Privet, Golden Leaf California, 6½-in. and 7-in. pots round shaped plants, $6.00 per doz.
Lily of the Valley, Cut, extra selected blooms, $5.00 per 100; can be shipped with roots if so desired.
Araucarias, 6, 6½ and 7-in. pots, $1.50, $2.00 and $2.50 each.

Packing free of charge. Cash or satisfactory references must accompany all orders

ANTON SCHULTHEIS

316 19th Street, - COLLEGE POINT, L. I., N. Y.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN
WELL ESTABLISHED Plants

Kentia Belmoreana

		Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high		$ 6 00	$50 00
	Each		
6-in. " " " 22 to 24 in. high	$1 00		$12 00
6-in. " " " 24 to 26 in. "	1 25		15 00
6-in. " " " 26 to 28 in. "	1 50		18 00
9-in. tub " " 42 to 48 in. "	5 00		

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high ..... $ 4 00 each
12-in. " 4 plants, 6 feet high heavy ..... 15 00 each

Joseph Heacock Co., Wyncote, Pa.

French Market Porters.

Paris, May 15.—A quaint and interesting competition for market porterships took place at the Paris central markets to fill 30 vacancies which will occur during the ensuing year. The Corporation of Market Porters—or "Strong Men of the Markets," as they are called locally—is one of the most ancient in Paris, having been established in the reign of Saint Louis. The number is strictly limited to 621, and they have the exclusive privilege of carrying goods for the salesmen, which occupation requires great strength.

There were 550 competitors, of whom 300 successfully passed the strength test, which consisted in carrying on the shoulders a pannier containing weight equal to 504 pounds for a distance of 45 yards. The winner covered the distance in 30 seconds. The most formidable part of the competition is a written and oral examination in dictation and arithmetic, for it is necessary that the porters should be able to calculate correctly and quickly.

Trees.

Trees grow on mountain-sides, in remote country districts and in some residential quarters. They furnish shade, presidential timber, and, when sliced thin, delicious breakfast foods.

Trees are useful for cutting down and furnish occupation for the otherwise unemployed. In the form of railroad ties they furnish a basis for bond issues and for stock market panics.

Trees may be oak, beech, chestnut or elm, but they are always popular. They make excellent fire, especially when made into some novels.

Trees are brown and green, but when made into paper are generally yellow. This is when they bark loudest.

Trees were at one time used for hanging purposes. Now we use investigating committees, thus showing the advance of civilization.

Among the rock-a-bye babies the treetop is a favorite. Later on the Christmas tree is in vogue. At the club the only tree used is the hat tree.

Americans consider themselves superior to all trees. That is why they cut them so.—Lippincott's.

BROOKLYN, N. Y.—One of the horse's traces broke as John Wendell, 611 Central avenue, was driving across the Williamsburg bridge May 10, and the horse bolted. Several policemen tried to stop the animal, but failed. The runaway dashed against the gate and was thrown, and the shafts of the wagon were broken. Wendell was thrown from the seat and received a bad laceration of the right ear, which was dressed, after which he went home with the injured horse and rig.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS.
CARNATIONS, for fall delivery. SMILAX. VIOLETS

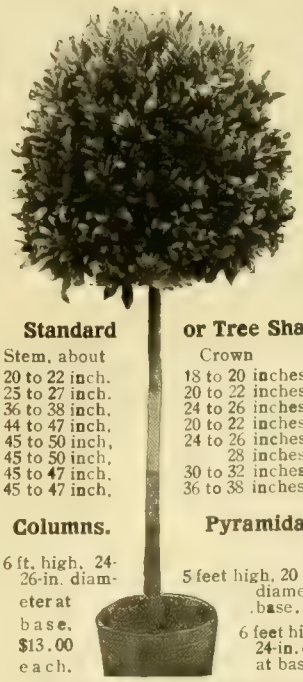
IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

BAY TREES

(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard

Stem, about	
20 to 22 inch.	
25 to 27 inch.	
36 to 38 inch.	
44 to 47 inch.	
45 to 50 inch.	
45 to 50 inch.	
45 to 47 inch.	
45 to 47 inch.	

or Tree Shaped.

Crown	Each
18 to 20 inches	$ 4 00
20 to 22 inches	4 50
24 to 26 inches	6 00
20 to 22 inches	6 00
24 to 26 inches	7 00
28 inches	8 00
30 to 32 inches	10 00
36 to 38 inches	12 00

Columns.

6 ft. high, 24-26-in. diameter at base, $13.00 each.

Pyramidal Shaped.

	Each
5 feet high, 20 to 22-in. diameter at base	$ 7 50
6 feet high, 22 to 24-in. diameter at base	9 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

CHICAGO. NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Surplus Stock

From 2½-inch pots.
Clean, thrifty stock.

	Per 100	1000
ROSES, mostly summer propagated; Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay, Minnehaha, Philadelphia, White and Yellow Rambler	$3 00	$27 50
Anny Muller	3 50	30 00
Baby Rambler	2 75	25 00
White Baby Rambler	3 00	27 50
Clothilde Soupert	3 00	27 50
Asparagus Plumosus Nanus	3 00	25 00
Asparagus Sprengeri	3 00	25 00
Hibiscus "Peachblow"	3 00	25 00
Jerusalem Cherry	3 00	25 00
Lemon Ponderosa	3 00	25 00
Palm Areca Lutescens	4 00	35 00

Jackson & Perkins Co.
Newark, New York.

ROSE PLANTS

On own roots. Send for list.
C. M. NIUFFER, Springfield, Ohio.

Rochester, N. Y.

A flower show will be held in this city in November that will be unique in so many ways that it is expected to attract the attention of members of the trade in all parts of the country. It will be original, in that there will not be a vase or table in the exhibit. Convention hall, where the show is to be given, will be laid out as a garden, and the exhibits will grow on the floor. Instead of walking up and down between flower laden tables, spectators will pass along beautiful walks, under arbors, through palm forests, and to a cascade that will have its origin back on the stage at one end of the hall and will flow to the feet of those who enter the hall.

The show will be held November 2-4 under the direction of the Commercial Florists' Association of Rochester. Every florist will have an exhibit, and there will be choice exhibits from the gardens of prominent amateurs. It will be distinctively a chrysanthemum show, but there will be exhibited new varieties of roses, carnations and other popular flowers, palms and other plants.

Florists and nurserymen who are interested in the show, which has been under consideration since last winter, met at James Vicks Sons' offices for the purpose of going over the floor plans for the hall and perfecting other details. Every one present was enthusiastic. The general committee in charge of the show was divided into subcommittees. Charles H. Vick is chairman of the general committee, and H. B. Stringer is secretary. The subcommittees are: Floor and decoration—F. J. Keller, E. P. Wilson, R. G. Salter, G. B. Hart. Finance—W. L. Keller, William C. Barry, Sidney R. Clarke, W. H. Dildine, A. H. Salter. Exhibitions and awards—J. M. Keller, Ambrose Secker, F. W. Vick, F. R. Schlegel, C. B. Ogsten. Music—F. W. Vick. Advertising—Sidney R. Clarke, Thomas F. Brown, A. H. Salter, William Pitkin, Charles J. Brown.

PITTSBURG, PA.—The United States Floral Corporation was given its charter May 6.

ROSES

	Per 100	Per 1000
Beauties, 4-in., extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2½-in.	5 00	45 00
Cardinal, 2½-in.	6 00	
Bride, Maid,	5 00	45 00
Potter Palmer, Kaiserin, 2½-in.	5 00	45 00
Potter Palmer, Kaiserin, 3½-in.	6 50	55 00

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now, R. C...$2 50 per 100; $20 00 per 1000
2½-in. ... 3 00 per 100; 25 00 per 1000

No more Virginia Poehlmann R. C. or 2½-in. until June 15.
For other varieties of 'Mums see classified adv.

SPRENGERI, strong, 3-in...$4 00 per 100; $35 00 per 1000
SMILAX, 3-in.. ... 4 00 per 100; 35 00 per 1000

Above is all choice stock, guaranteed to please.
2 per cent off for cash. Terms: 30 days net.
Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

SEASONABLE STOCK

	2-in. Per 100	3-in. 1000
GERANIUMS, good assortment	$2 00	$30 00
Our selection, 10 good kinds ... ...$15 00 per 1000		
Ageratum, 5 kinds	2 00	3 00
Cannas, J. D. Eisele, Egandale, Alph. Bouvier, Mme. Crozy, Florence Vaughan		4 00
Jean Tissett, President Myers, Louisiana, Pennsylvania		5 00
Centaurea Gymnocarpa	2 00	3 00
Cineraria Maritima Candidissima.	2 00	3 00
Hardy Chrysanthemums, Small flowering	2 00	
Large flowering	3 00	

	2-in. Per 100	3-in. 1000
Dahlias, pot plants, standard kinds and up to $6 00 per 100. Jack Rose, Virginia Maule, Big Chief ... 50c each.	35 00	
Hardy English Ivy	2 00	
Lemon Verbena	2 00	
Lobelia, Kathleen Mallard	2 00	3 00
Petunias, Dreer's Superb Single	2 00	3 00
Salvia Bonfire	2 00	3 00
Zurich	3 00	4 00
Senecio Scandens (Parlor Ivy))	2 00	3 00
Smilax, extra strong	2 00	
Tradescantia, dark variegated	2 00	
Verbenas, mixed colors	2 00	3 00

Not less than 25 at 100 rates; 250 at 1000 rates. Cash with order.

A Personal Inspection Invited. White Marsh is at Cowenton Station, B. & O. R. R., 15 miles north of Baltimore. We meet all trains.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond, Rose pots, $15.00 per 100; 3½-in. pots, $18.00 per 100. Brides, Bridesmaids, Golden Gates, Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle, 3-in. pots, $7.00 per 100; 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Send Advts. Early for Best Service.

Rose Plants

Fine Strong, Healthy.

	2¼-in. Pots 100	2¼-in. Pots 1000	3-in. Pots 100	3-in. Pots 1000
American Beauty	$5.50	$50.00	$7.00	$65.00
Richmond	3.00	25.00	4.00	35.00
Chatenay	3.00	25.00	4.00	35.00
Ivory	3.00	25.00	4.00	35.00
Bride and Maid	3.50	30.00	4.50	40.00
Asparagus Sprengeri, 4-in. pots			$8.00 per 100	
Asparagus Plumosus, 3-in. pots			5.00 per 100	
Smilax, 3-in. pots			4.00 per 100	

Orders should be placed at once. Stock can be shipped now or when you are ready to plant. Extra fine. Samples cheerfully furnished.

UNITED STATES CUT FLOWER CO., Elmira, N. Y.

GERANIUMS

4-inch pot plants of Castellane, Viaud, Perkins, and Buchner, old plants, at $4.00 per 100. Send for sample.

Rooted cuttings of Castellane, Viaud, Buchner Ricard and Nutt, at $1.00 per 100.

Asparagus

Plumosus, ready now..... $25 00 per 1000
Sprengeri, ready June 1st... 15 00 per 1000

Smilax Ready June 1st, at $15.00 per 1000.

Hardy Phlox

Rooted cuttings of a Salmon Pink, very large flowered variety and one of the best, in any quantity, at 75c per 100 or $5.00 per 1000. A small lot in assortment, all good varieties, at $1.00 per 100.

Samples of any stock for 10 cents.

ALBERT M. HERR, Lancaster, Pa.

SPRING STOCK IN QUANTITIES

Adiantum Cuneatum, strong, 4-in. pot plants, ready for shift, $8 00 per 100.
Chrysanthemums, leading varieties, 2-in. $2.50 per 100; $20 00 per 1000.
Maranta Massangeana, fine for ferneries. $6.00 per 100.
Ficus Elastica, 5-in. pots plants, 18 to 24-in. high $40 00 per 100.
Ivy Geraniums, strong, 2½-in. pot plants. Souv. de Charles Turner and Jeanne d' Arc, $3.00 per 100
Fuchsias, 10 varieties, 2½-in. $2.50 per 100; $20.00 per 1000.
Salvias, Zurich, Fireball, Maroon Prince, Clara Bedman Splendens, 2-in. $3 00 per 100; $25 00 per 1000; 3-in $5.00 per 100.
Coleus, Verschaffeltii and Golden Crown, 2-in. $2.50 per 100; $20.00 per 1000.
Lantanas, strong, 2½-in. pot plants, $3.00 per 100.
Begonia, Erfordii, Vulcan, Vernon, fine for pots or bedding, $2.50 per 100; $20 00 per 1000.
Dahlias, well established pot plants, all leading varieties, $3.50 per 100
Begonia, Rex, 2½-in. pot, at $4.00 per 100.

The Storrs & Harrison Co., PAINESVILLE, OHIO.

Pelargoniums..

Rooted Cuttings, 15 varieties, $2.50 per 100.
Coleus, 70c per 100, $6.00 per 1000.
Daises, Heliotrope, Salvias and **Alyssum,** dbl., $1.00 per 100; $8 00 per 1000. **Petunias,** dbl. $1.25 per 100; $10.00 per 1000. **Ageratums,** 60c per 100; $5.00 per 1000. All rooted cuttings.

Express prepaid on rooted cuttings. Cash with order. Write

S. D. BRANT, Clay Center, Kan.

OUR NEW CARNATION **SHASTA**

Is always pure white, is always in bloom and is always high grade.
$12.00 per 100; $100.00 per 1000. Send orders **now** to

PATTEN & CO., Tewksbury, Mass. **BAUR & SMITH,** Indianapolis, Ind.

MARY TOLMAN

A new light salmon pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. **HUNT BROS.,** Park Ridge, Ill.

250,000 Superb Strain

Pansies...

Fall transplanted Pansies in bud and bloom. A trial order will convince you that our Superb Strain is the best you have ever handled. $1.25 per 100; $10.00 per 1000. Cash with order

LEONARD COUSINS, JR., Concord Junction, Mass.

SANGAMO

New, brilliant, glistening pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

A New Seedling Carnation :: :: :: **Conquest**

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** Office and Store: 76 Wabash Ave., CHICAGO

FERNS and ASPARAGUS.

Boston Ferns, 3 in. 8c.; 6-in. 50c each
Annie Foster, 2¼-in. 4c.; 3 in. 8c.; 4 in. 15c, 5-in. 30c.
Piersoni, 6-in. 50c.; 8-in. $1.25 each.
Scotti and **Elegantissima,** 2¼-in. 5c.; 3-in. 10c 4-in. 20c.; 5-in. 40c.; 6 in 60c, each.
Whitmani, 2¼-in. 6c.; 3-in 10c. each.
Asparagus Plumosus, 3 in. 6c.; 4-in. 10c
Asparagus Sprengeri, 2¼-in. 2½c.; 3 in 5c.

Very strong plants.

MOSBAEK GREENHOUSE CO.
ONARGA, ILL.

New Carnation Lucille

White, overlaid with Pink.
Will bring you bigger returns.

Try it and be convineed that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.
Golden Glow Chrysanthemum Cuttings.
Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Leedle Roses

See column ad. and prices page 721, May 1.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

ROSES

A SPECIALTY.
The Dingee & Conard Co.,
WEST GROVE, PA.

KANKAKEE, ILL.—Chas. Shafer has planted 18,000 carnations in the piece of ground near the fair grounds which he recently purchased. New houses are to be built here, and it is to plant these houses that the carnations are being prepared.

BALTIMORE, MD.—The Gardeners' and Florists' Club of this city decided to hold the annual family picnic about the middle of July and a committee was appointed to arrange matters definitely. Also to attend the meeting of the Maryland Horticultural Society's summer meeting to be held in August at Mountain Lake park.

CARNATIONS

Rooted Cuttings

	Per 100	1000
Mrs. J. C. Vaughan,	$12 00	$100 00
O. P. Bassett,	8 00	60 00
per 500	$35 00	
Mrs. Chas. Knopf,	12 00	100 00
Ruby,	12 00	100 00
Afterglow,	5 00	45 00
Rose Pink Enchantress	3 00	25 00
Sarah Hill,	5 00	45 00
Winona,	5 00	45 00
White Enchantress,	4 00	35 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,
84-86 Randolph Street, CHICAGO. 25 Barclay Street, NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
BOOK FOR FLORISTS. SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100
Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

MY MARYLAND

The Greatest Producing Rose in Commerce Today

Selected plants of the highest quality, ready to ship.
Grafted, $20.00 per 100; $150.00 per 1000. Own root, $10.00 per 100; $90.00 per 1000.

You will kindly remember that we have

Waban Strain White Killarney

that will please you. Grafted, $35.00 per 100; $300.00 per 1000.

A. N. PIERSON, Inc., Cromwell, Conn.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Mention the American Florist when writing

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$6 00	$50 00
Maids, grafted	4 00	30 00
Brides, grafted	4 00	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	4 00	35 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Bedding and Miscellaneous Plants

	Per 100
7,000 Vincas,	
Variegated, 2-in	3 00
" 3-in	6 00
" 3 in., strong	8 00
" 3-in., extra strong	10 00
10,000 Geraniums,	
S. A. Nutt and other standard varieties, 2-in.	3 00
" " " " " 3-in.	6 00
" " " " " 4 in.	8 00
Mme. Salleroi, 2 in	3 00
Asparagus Plumosus, 2-in	3 00
" 3-in	5 00
Ageratum in variety, 2-in	2 50
Achyranthes, 2-in	2 50
Abutilon, 3-in	5 00
Alyssum, 2-in	2 50
Agathea, 2-in	3 00
Begonias in variety, 2-in	2 00
Chænostoma Hispidum, 2-in	3 00
" " 3-in	5 00
Caladium Esculentum, 3 to 4 in. in circumf.	1 00
" " 5 to 7 in. in circumf.	2 00
Cyperus, 2-in	3 00
" 3-in	5 00
Chrysanthemums, 3-in	4 00
Coleus, mixed, no Verschaffeltii or Golden Bedder	2 00
Cuphea	2 00
Echeveria Secunda Glauca	4 00
Feverfew, 2-in	3 00
Fuchsias, 2-in	3 00
Genista	4 00
Glechoma variegated, 2-in	3 00
Heliotrope	3 00
Impatiens Sultani	3 00
Ivy, German	2 50
Lantanas, in variety	2 50
Marguerite Daisies, 2-in	2 50
" " 3-in	6 00
" " 4-in	8 00
" " yellow, 2-in	4 00
Manetti Vine	3 00
Myrtle, hardy, 3-in	4 00
Pilea	3 00
Primula Forbesi, 2-in	3 00
Plumbago Capensis	3 00
Roses, Bride, Chatenay, Maid, 2-in	3 00
" " " " 3-in	5 00
" White Baby Rambler, 2-in	6 00
" " " " 3-in	8 00
" " " " 4-in	20 00
Sanseveria, 3-in	5 00
Sage, Holt's Mammoth	3 00
Santolina	3 00
Selaginella, Lycopodium Moss, 3-in	4 00
Verbenas	3 00

I. N. KRAMER & SON, Cedar Rapids, Iowa

FERNS

Extra strong, stocky plants from 2½-in. pots, grown for our retail trade, in the following choice sorts.

Pteris Wimsetti, **Pteris Serrulata,**
Pteris Albo Lineata, **Pteris Mayii,**
Pteris Cristata, **Cyrtomium Falcatum.**

Price single varieties $6.00 per 100.
Assorted varieties $5.00 per 100.

Holm & Olson, Inc.,
St. Paul, Minn.

Geraniums, single and dbl. Grant, Nutt, Bruant, etc. 2-in. 2c. **Ageratum,** 2-in., 2c.
Stevia, Green or Variegata, **Vinca Var.,** strong, 2-in 2c
Dusty Miller, 2-in. 1½c.
Vinca Alba, Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem). 2-in., 2c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white, yellow; **Swainsona,** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Heliotrope,** $1.00 **Vinca Var.,** 90c, $8.00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5.00 per 1000; **Artillery Plant, Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

BAY TREES

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS. Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

ROSES

OWN ROOT

My Maryland, Rhea Reid and Jardine,
3-inch $12.00 per 100; $100.00 per 1000.

Richmond, Ivory and Chatenay
2½-inch $3.00 per 100; $25.00 per 1000.
3 -inch 6.00 per 100; 50.00 per 1000.

CHARLES H. TOTTY,
Madison, New Jersey.

Freshly Imported UNESTABLISHED ORCHIDS

We beg to inform you that the undermentioned ORCHIDS have arrived in very fine condition, special price list of which we will mail on application:

Cattleya Trianæ,
Cattleya Skinneri,
Cattleya Percivaliana,
Lælia Superbiens,
Lælia Anceps,
Lælia Albida,
Oncidium Varicosum Rogersii,
Oncidium Crispum,
Oncidium Sarcodes,
Oncidium Forbesii,
Oncidium Splendidum,
Oncid. Wentworthianum,
Oncidium Leucochilum,
Odontoglossum Grande,
Odontoglossum Crispum,
Lycaste Skinneri,
Miltonia Candida;
Also a number of Ærides, etc., in fine condition,
Miltonia Spectabilis,
Miltonia Flavescens,
Zygopetalum Crinitum,
Zygopetalum Maxillare var. Gautieri,
Scuticaria Steelii,
Phalænopsis Amabilis,
Phalænopsis Schilleriana,
Vanda Cœrulea,
Vanda Sanderiana,
Vanda Boxallii,
Dendrobium Thyrsiflorum,
Dendrobium Formosum,
Dendrobium Chrysotoxum,
Dendrobium Suavissimum,
Dendrobium Fimbriatum,

To arrive in a few days:
Cattleya Labiata, C. Mossiæ, C. Schroederæ, C. Mendelii, and many more.

We also recommend our large stock of established plants and supplies, such as **Peat, Live Moss, Baskets, Books on Orchids, etc.**

LAGER & HURRELL, Summit, N. J.

Splendid Plants. **ORCHIDS** Guaranteed Type.

JUST ARRIVED.

Direct from Native Mountains to Grower.

Dendrobiums **Wardianum, Nobile** and **Thyrsiflorum.** Flowers December to April. $1.50 and upward each.

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For Quick Delivery.

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Moonvine	$2 50
Manetti Vine	2 00
Verbenas	2 00
Jasmine, Night-blooming	2 00
" Grand Duke	2 00
" Maid of Orleans	2 00
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Coleus	2 00
Lemon Ponderosa, 4-inch	5 00
Clerodendron Balfouri	5 00

F. O. B. Memphis. All nice stock. Send cash with order.

OTTO SCHWILL & CO.
Seedsmen, Memphis, Tenn.

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	Per 100
4-inch stock, 15 000 plants, cool grown, 6 standard varieties, without pots	$6.00
Mme. Salleroi, 2-in., $1 50 per 100: $12 50 per 1000	
" 2½-in. 2.00 per 100: 18 00 per 1000	
Rose Geraniums, fine 4-in	$7.00 per 100

BEDDING AND OTHER STOCK.

English Ivy, 4½-in., 3 to 4 ft. long, fine stock	15c each
Fuchsias, 2-in	$3.00 per 100
Swainsona, extra large flower, pure white, 2½-in	2.00 per 100
Coleus, R. C., 8 varieties	.75 per 100
Stevia, 2 in.	2.00 per 100

N. C. MOORE & CO., Morton Grove, Ill.

Miscellaneous Spring Bedding Stock.

Cannas, Moss-rooted, 6 to 12 in high, Allemania, Kate Gray, Chas. Henderson, Burbank, Washington	$5 00 per 100
Geraniums, strong, 4-in	7 00 per 100
Vinca Variegated, 3 to 4-in	$5 00-10 00 per 100
Alyssum Little Gem, 2½ in	2 50 per 100
Ageratum, Dwarf Blue, 2½ to 3	2 50- 3 00 per 100
Cobeas, 3-in	5 00 per 100
Coleus, 2¼ to 3-in	2 00- 3 00 per 100
Dracæna Ind., 3-in	5 00 per 100
Dusty Miller, 2¼-in	2 00 per 100
Verbenas 2 to 2½-in	2 00 3 00 per 100
Salvia, 3-var., 2½ to 3-in	2 50-3 00 per 100

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Best Varieties,

2½-in, ready for 4-in., $2 00 per 100; 300 for $5.00
Ivy Geraniums and Salleroi, 2½-in., same price.

Cabbage Plants, all kinds.....$1.00 per 1000
$8.00 for 10,000.

Tomatoes, best varieties.....$1.50 per 1000
Cauliflower, Snowball..... 2.50 per 1000
Egg Plants and **Peppers**..... 2.50 per 1000

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5000 S. A. Nutt, Mme. Barney, La Favorite,
In 2¼ and 2½-inch pots
Strong, healthy stock.

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Orange, N. J.

W. A. Manda addressed the New Jersey Floricultural Society on May 14, its regular monthly meeting, set apart as a special rose night. The floral contributions were from neighboring states and up to the usual standard. In the discussion, which was quite a feature of the evening, John Hayes, William Reid, Jos. A. Manda, Max Schneider, D. Kindsgrab, Chas. Ashmead, James McManus, Walter Gray and Rev. Lewis H. Lightipe, the botanist of the society, took part. In the unavoidable absence of President MacRorie and Vice President Edwin Thomas, the secretary was called upon to preside.

J. B. D.

Bedding Stock.

Dracæna Indivisa 6-inch.....$5.00 per doz. 8-inch.....$9.00 per doz. 7-inch..... 7.00 per doz. 9-inch.....12.00 per doz.

Phœnix Canariensis in tubs, 3 feet, $2.50 each. Larger specimens, prices on application. **Ask for catalogue on Palms, Etc.**

CANNAS. In 4-in. pots.

ONE LOT MIXED, all kinds, $6.00 per 100.

ALLEMANIA, dark salmon color, with golden markings, 3 to 4 ft. in height, $1.50 per doz.; $12.00 per 100.

BURBANK, heavy, light green foliage, with large rich yellow flower, $1.50 per doz.; $12.00 per 100.

CHARLES HENDERSON, beautiful crimson colored blossoms; a grand variety. Height 3½ feet. We have a very large stock of these and can give you a very choice selection. $1.00 per doz.; $8.00 per 100.

CHICAGO, the color is a deep vermilion scarlet; petals 1½ inches wide and five in number. Light green foliage and 4 feet in height. We can supply you with any quantity and can give you good value. $1.00 per doz.; $8.00 per 100.

DISCOLOR, tallest bronze-leaved canna, very strong grower with small red flowers, 7 feet. $1.50 per doz.; $8.00 per 100.

DAVID HARUM. We believe that you will be pleased with this choice variety. The plants are in vigorous growth and have a very commanding appearance. $1.50 per doz.; $8.00 per 100.

EGANDALE, a favorite bronze-leaved variety with soft currant-red flowers, 4 feet in height. $1.50 per doz.; $8.00 per 100.

FLORENCE VAUGHAN. This is a very fine variety, having rich golden yellow flowers spotted with red. They are large size and perfect form, green foliage, height 4 feet. We have an excellent stock of these to make a choice selection for you. $1.00 per doz.; $8.00 per 100.

KING HUMBERT. The flowers of this Italian Canna measure six inches under ordinary cultivation and are produced in trusses of gigantic size. The foliage is a beautiful bronze, broad end massive with brownish green markings, height 5 feet. We will have no trouble to give you good value in this beautiful flower as our stock of these is particularly fine. $1.50 per doz.; $12.00 per 100.

L. PALTRY, beautiful shaded flowers of salmon pink with darker dots and streaks, a constant bloomer, 4 feet. $1.50 per doz.; $8.00 per 100.

MLLE. BERAT. This is the nearest approach to a pink in a first class bedder. $1.50 per doz.; $8.00 per 100.

PRESIDENT CLEVELAND. This variety blooms all summer, having brilliant orange scarlet blossoms, height 3½ feet. $1.50 per doz.; $8.00 per 100.

MME. CROZY, very deep crimson scarlet blossoms with broad golden yellow border; green foliage; 3½ feet in height. $1.50 per doz.; $8.00 per 100.

BEDDING STOCK.

Write us for prices for all spring bedding stock.

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Ageratum, 4 in. pots	$ 8.00
Alternantheras, 2 in. pots	3.00
Begonia Vernon, 4 in. pots	8.00
Coleus Golden Bedder, 2 in. pots	3.00
Coleus Verschaffelti, 2 in. pots	3.00
Curly Variety, red and yellow	3.00
Caladiums	12.00
Dusty Millers	3.00
English Ivies, 4 in. pots	12.00
Geraniums, 4 in. pots	8.00
3 in. pots	$6.00
Grave Myrtle (Vinca Minor), 2 in. pots	3.00
Grave Myrtle (Vinca Minor), 3 in. pots	6.00
Heliotrope, 4 in. pots	$ 8.00
Honeysuckle Vines	12.00
Lobelias, per dozen, 25 cents.	
Mignonette, 4 in. pots	8.00
Madam Salleroi Geraniums, 2½ in. pots	4.00
Marguerites, 4 in. pots	12.00
Nasturtiums, 2 in. pots	3.00
Nasturtiums, 3 in. pots	6.00
Pansies, per dozen, 25 cents.	
Petunias, 4 in. pots	8.00
Salvia, 4 in. pots	8.00
Snow Crest Daisies, per doz., 25 cents.	
Sweet Alyssum, per doz., 25 cents.	
Santolina	3.00
Vincas, green and variegated	12.00
Boxwoods, small bushes. 20, 25 and 50 cents each; large pyramids 4 ft. $3.00 per pair; in fancy tubs, 6 ft., $12.00 per pair.	

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Geraniums, strong, bushy plants in bud and blooom.

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Strong 2½-in. pot plants, leaf cuttings, $15.00 per 100; $140 00 per 1000.

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Chrysanthemums, the best three early varieties: White Cloud Pacific Supreme. Golden Glow, 2½-in pots $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani. Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2.00 per doz.
Geraniums, best commercial varieties, 3-in. pots $4.00 per 100; 4-in. pots $6.00 per 100.
Ivy, Hardy English, 3-in. pots, $5.00 per 100
Vinca Variegata 2½-in pots $3.00 per 100.
Lobelia, Double blue, 2½-in. pots $3 00 per 100.
Hydrangea Otaksa, 2½-in. pots $3.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground, $1.00 per doz.
Lemon Verbenas, 3-in. pots, $5 00 per 100; 4-in. pots, $1 00 per doz.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias 4 varieties; Phlox, Drummondi, dwarf; Lobelia, Emperor William; Salvia Bonfire and Zurich; Verbenas: Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadricolor; Golden Feather. Cupheas Snapdragon Lantanas.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

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Vinca Var., 2-in.. $2.00 per 100. 3-in.. $5 00 per 100.
Dracena Indivisa, 3-in.. $5.00 per 100; 4-inch $10.00 per 100.
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GEO. M. EMMANS, Newton, N. J.

GARDNER, MASS. — The Riverside Greenhouses, inc., have filed a petition for dissolution of the corporation. A hearing on the petition will take place the first Monday in July at Worcester.

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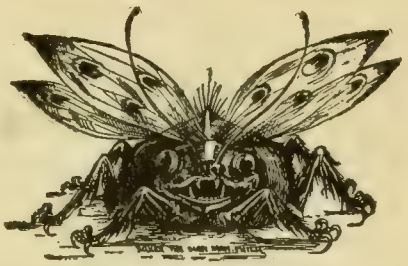

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Cannas, King Humbert 4 in	10 00
Bismarck, Barrett, Poitevine, Black Beauty, Henderson, Italia. 4-in	7 00
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Scarlet Sage (or Salvia), the true Clara Bedman or Bonfire. Ours is the true medium tall genuine variety: deep red. brilliant flowers; a constant bloomer, so much admired in the capital cities of Europe and America. The seeds of this famous variety were gathered by myself in Zurich Switzerland. the home of Salvia. Price 4-in. pots.	7 00
Ageratum, best blue, dwarf varieties, 4-in., in bloom	7 00
3-in. pots	3 00
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Begonia Erfordi, pink variety, 4-in	8 00
Begonia Vernon, newest strain, the so well known dark variety, of our own importation. Seeds selected from the best specimen plants by myself during my trip in Switzerland and France. On that account these varieties thrive well in the hottest climate, exposed direct to the heat of the sun in July and August: a constant bloomer: therefore it is very valuable as a bedder, and in many instances takes the place of Geraniums, etc. 4-in. pots	8 00
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Lantanas, assorted. 4-in	7 00
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Centaurea Gymnocarpa or Dusty Miller 2½-in	3 00
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Lobelia Compacta, Trailing and Crystal Palace Blue	3 00
Kentlworth Ivy, 2½ in	3 00
Tradescantia, two best colors, 2½-in	3 00
Thunbergia or Black Eyed Susan, 2½ in	3 00
Sweet Alyssum, Little Gem, 2½-in	3 00
Asparagus Plumosus, 2 in..$25 00 per 1000	3 00

	Per 100
Cuphea or Cigar Plant, 2½-in	3 00
Vinca Variegata (Periwinkle), 3 in.	$4 00 to 5 00
Cosmos, 4 best early varieties, made up 3 plants in a pot	$4 00
Summer Chrysanthemums, 3 to 4-in. pots	5 00
Asters, Victoria German, 5 best sorts	3 00
Honeysuckle, large, 6-in	50c
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8 varieties, 2 and 2½-in. pots	3 00
8 varieties, 3 and 3½-in. pots	4 00
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Golden Glow	5.00		6.00	
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McNiece	2.50	20.00	3.00	25.00
Dr. Enguehard	2.50	20.00	3.00	25.00
Rosiere	2.50	20.00	3.00	25.00
Maud Dean	2.50	20.00	3.00	25.00
RED.				
Intensity	2.50	20.00	3.00	25.00
Schrimpton	2.50	20.00	3.00	25.00

POEHLMANN BROS. CO.,
Morton Grove, Ill.

Chrysanthemums, C. Touset, Early Snow, Glory of Pacific, Ivory, John K. Shaw, Monrovia, A. Byron, Oct. Frost, Pink Ivory, Polly Rose, R. Halliday, Col. Appleton, Dr. Enguehard, Bonnaffon, Mayor Weaver, Helen Frick, Mlle. J. Nonin, John Burton, M. Bailey, Mrs. J. Jones, White Bonnaffon, Yel. Jones, plants, $3 per 100; $25 per 1,000; R. C., $2 per 100; $17.50 per 1,000. Balfour, Mrs. E. D. Smith, Pres. Roosevelt, Sunburst, Intensity, Venetta, W. H. Chadwick, plants, $4 per 100; $35 per 1,000; R. C., $3 per 100; $25 per 1,000. Beatrice May, $5 per 100; $45 per 1,000; R. C., $4 per 100; $35 per 1,000. Golden Glow, $4 per 100; $35 per 1,000; R. C., $3 per 100; $25 per 1,000. Pacific Supreme, W. J. Crossey, $6 per 100; $50 per 1,000; R. C., $4 per 100; $35 per 1,000. Chadwick Improved, Mrs. J. Boxall, $2 per 10; $15 per 100. Pres. Taft, Gloria, Mrs. W. E. Kelley, $4 per 10; $35 per 100. Pompons: Alma, Emo, Iva, Kent, Klondike, Orea, Skibo, $3 per 100; $25 per 1,000; R. C., $2.50 per 100; $20 per 1,000. Elmer D. Smith & Co., Adrian, Mich.

Chrysanthemums, Golden Glow, Pacific Supreme and White Cloud, R. C., $27 per 1,000; 2½-in., $35. Golden Eagle, $10 per 100. Frost, Touset, Enguehard, Golden Wedding, Appleton, Nonin, 2½-in., $2.50 per 100; $23 per 1,000. I. M. Rayner, Greenport, L. I.

Chrysanthemums, from 2½-in., Jerome Jones, Col. Appleton, C. Touset, Pink Ivory, $2.25 per 100. Wenonah Carnation Gardens, Wenonah, N. J.

Hardy chrysanthemums, small flowering, 2-in., $2 per 100; large flowering, 2-in., $3. R. Vincent, Jr., & Sons, White Marsh, Md.

Chrysanthemums, Oct. Frost, Polly Rose, J. Nonin, Touset, W. Bonnaffon, Col. Appleton, Yellow Bonnaffon, Dr. Enguehard, Intensity, M. Dean, $1.50 per 100. Chadwick, $2.50 per 100. T. Eaton, Monrovia, $2 per 100. Pompons: Mrs. Beu, $2.50 per 100. Garza, Diana, Antonio, $2 per 100. Nellie C. Moore, $1 per doz.; $6 per 100; $50 per 1,000. N. C. Moore & Co., Morton Grove, Ill.

JUST THE CREAM, Golden Glow, Early Snow, Miss Clay Frick, Beatrice May, and the grand Xmas pink, J. Rosette, strong topped back, $4; R. C., $3. Monrovia, Shaw, Enguehard, Frost, Touset, Money Maker, Buckbee, Eaton, Nonin, strong, 2½-in., $2.50; R. C., $1.50. Cash. W. J. Olds, Union City, Pa.

If you want money for Xmas, plant J. Rosette and lots of it. Also Golden Glow and Miss Clay Frick, strong, 2½-in., $4; R. C., $3. Monrovia, Shaw, Enguehard, Frost, Touset, Money Maker, Buckbee, Eaton, Nonin, strong, 2½-in., $2.50; R. C., $1.50. Cash, please. The Union City Greenhouse, Union City, Pa.

Chrysanthemums, strong, healthy plants, nicely started in soil. Cuttings were taken from stock plants left undisturbed through the winter in a cold house; 6,000 Major Bonnaffon, 1,000 Polly Rose and Glory of Pacific, 500 J. K. Shaw, $1.75 per 100; $15 per 1,000. A. W. Higgins, Westfield, Mass.

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Chrysanthemums, Oct. Frost, $3 per 100; $25 per 1,000. Kalb, Touset, Byron, Wanamaker, Balfour, Enguehard, Monrovia, Oct. Sunshine, Appleton, $2 per 100; $15 per 1,000. T. Eaton, Nonin. Y. Eaton, $2.50 per 100; $20 per 1,000. J. D. Thompson Carnation Co., Joliet, Ill.

Chrysanthemums, rooted cuttings. Selection of 40 varieties, the cream of the commercial sorts. Write for list and prices. S. J. Reuter & Son, Inc., Westerly, R. I.

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Chrysanthemums, Golden Glow. Eli Cross, Grand Rapids, Mich.

Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

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Cineraria maritima candid., 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

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Clematis paniculata, 3-in., $5 per 100. Large flowering vars., 2-yr., $3 per doz.; Jackmani, Henryi, Mme. Andre-Coccinea, $2 per doz. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Clematis paniculata, fine plants, 2½-in. pots, $2 per 100; $17.50 per 1,000. The Good & Reese Co., Springfield, O.

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Coleus, 10 best vars., $2 per 100; R. C., 75c per 100; $6 per 1,000. W. W. Coles, Kokomo, Ind.

Coleus, 2-in., 2c; R. C., 60c per 100; $5 per 1,000. Byer Bros., Chambersburg, Pa.

Coleus, $2 per 100. Otto Schwill & Co., Memphis.

Coleus, 2¼ to 3-in., $2 to $3 per 100. West End Greenhouses, Lincoln, Ill.

Coleus, 10 vars., $2 per 100. Jos. H. Cunningham, Delaware, O.

Coleus 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Coleus, R. C., 8 vars., 75c per 100. N. C. Moore & Co., Morton Grove, Ill.

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Dracæna indivisa, 3-in., 5c; 4-in., 12c; 5-in., 20c each. Mosbaek Greenhouse Co., Onarga, Ill.

Dracæna indivisa, 3-in., $5 per 100. West End Greenhouses, Lincoln, Ill.

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Euonymus radicans, 2-yr., $6 per 100; 3-yr., $8. The Shrewsbury Nurseries, Eatontown, N. J.

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Fern Nephrolepis Scholzeli, $3.50 per doz.; $25 per 100; $200 per 1,000; 25 at 100 rate; 500 at 1,000 rate. Henry A. Dreer, 714 Chestnut St., Philadelphia.

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Hollyhocks, separate colors, 2¼-in., $2.50 per 100. Mosbaek Greenhouse Co., Onarga, Ill.

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Sphagnum. Both quality and quantity, bag or barrel, $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

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Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

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Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

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GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, N. York.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction and equipment. King Construction Co., North Tonawanda. New York.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham, 1133 Broadway, N. Y.

Gutters, Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

Bordeaux paste and Bordeaux arsenate for mildew and bugs. Niagara Sprayer Co., Middleport, N. Y.

The Fumigating Kind Tobacco Powder, $3 per bag 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

Cooper's Spray Fluids. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Lawn settees. McDonald Bros., Columbus, Ohio.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit.

MISCELLANEOUS.

Everlasting tile benches, hollow tile, partition, tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

SECOND HAND BAGS, burlap and barrel covers of every kind bought and sold. Write for prices. Richmond Bag Co., Richmond, Virginia.

Printing. Large runs of catalogues a specialty. Write for figures, Regan Printing House, 89-91 Plymouth Place, Chicago.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

A Knapsack Sprayer, for greenhouse and lawn spraying. Niagara Sprayer Co., Middleport, N. Y.

Engravings of all kinds. Dearborn Engraving Co., 1322 Wabash Ave., Chicago.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western and 26th St., Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Ideal Pipe Clamps. A quick repair for rust holes and split pipes. Write for circular. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

Iron fittings, patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, New York.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

Free to Florists—Sample box of Red Pots. George E. Feustel, Fairport, Iowa.

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Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

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Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit, Mich.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

SUPPLIES.

Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Supplies. Cape flowers, cycas leaves, metal designs and all florists' supplies. A. Herrmann, 412 East 34th St., New York.

Supplies, wire designs. Pittsburg Florists' Ex., 228 Diamond St., Pittsburg, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H. M. Robinson & Co., 8-11 Province St., Boston.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

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"THE FUMIGATING KIND TOBACCO POWDER." The first on the market and the kind that has so many imitators, has our guarantee tag of satisfaction or money back, and "The Moon Trade Mark" on every bag, $3 per 100 lbs. The H. A. Stoothoff Co., Mount Vernon, N. Y., makers and sellers.

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Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

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Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

Reservoir vases for cemeteries and parks, from $6 to $100 each. Walbridge & Co., Buffalo, N. Y.

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Ventilating apparatus for every type of greenhouse. New model encased, self-oiling gear. Standard Model Open Gear. Lord & Burnham Co., 1133 Broadway, New York.

Ventilating apparatus. Send for circulars. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

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Foley ventilating apparatus, unexcelled. Send for circulars and estimates. The Foley Mfg. Co., Western and 26th St., Chicago.

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GREENHOUSE CONSTRUCTION (Taft).—It tells the whole story about how to build and heat a greenhouse, be it large or small, and that, too, in a plain, easily understood, practical way. It has 118 illustrations. $1.50.

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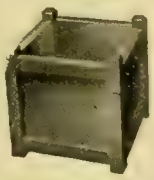

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Those Red Pots

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.

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Actual size of leaf 2¾ x 5¼ inches.

FOR CUT FLOWERS: in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Price: Per 500, $2.85, per 1000 $4.50. Samples on request. Electro of leaf, postpaid, $1.25. Cash with order.

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SUCCESS IN MARKET GARDENING (Rawson).—Written by one of the most prominent and successful market gardeners in the country, and who has the large t glasshouses for forcing vegetables for market in America. Outdoor and indoor crops are treated. Illustrated, $1.00.

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Standard Flower Pots!

Packed in small crates, easy to handle.

		Price per crate			Price per crate
1500	2-in., in crate,	$4.88	144	6-in., in crate,	$3.16
1500	2¼ "	5.25	120	7 "	4.20
1500	2½ "	6.00	60	8 "	3.00
1000	3 "	5.00		HAND MADE	
800	3½ "	5.80	48	9-in., in crate,	$3.60
500	4 "	4.50	48	10 "	4.80
456	4½ "	5.24	24	11 "	3.60
320	5 "	4.51	24	12 "	4.80
210	5½ "	3.78	12	14 "	4.80
			6	16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.
361-363 Herndon St.,
CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

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1521 Leavitt Street, CHICAGO

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CATALOGUES

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St. Louis,

PLANTERS BUSY.

The much belated planting season has started and the work is being rushed now. The market is again crowded with everything. Sweet peas are to be seen daily on the bargain counter. Peonies are now arriving more freely. There has been an over-abundance of long American Beauty roses, but they are taking on wood and the buds are daily becoming smaller. The next important period will be Decoration day and the question is whether stock will be scarce. There is no doubt that stock will be good. Cape jasmines are expected this week. Everyone is waiting the new crop of ferns, prices on this item having gone away up.

CLUB MEETING.

The monthly meeting of the Florists' Club took place May 11, with an attendance of 13, many being busy planting out. President Young was in the chair. Wm. Smith has charge of the transportation to the S. A. F. convention. It is expected that a large delegation will attend, traveling by the Big Four route. Visiting florists will be invited to join. Mr. Smith will try to obtain a rate and special car to convey the members and their friends in a body. The trustees were instructed to name the day and location of the annual outing some time in July. The crepe pulling question was tabled, leaving each individual to state the case to his customers.

D. A. Casey, formerly with Grimm & Gorly, has charge of the grounds and the new sunken parterre at Delmar garden. W. F.

Davenport, Ia.

Plant trade has at last got down to business, and every florist has all he can handle. This has been the most backward and disagreeable spring experienced here for years. There will be practically nothing for Decoration day with the exception of greenhouse stock. Peonies will be too late, and lilacs will be gone. Store business has been up to the standard. Many weddings and funerals keep everything cleaned up fairly well.

FLORISTS' CLUB.

The May meeting of the Tri-city Florists' Club was held at the home of Henry Pauli May 13. "Insecticides" was the topic for the evening discussion, lead by Theo. Ewoldt, who had come prepared having a lengthy paper on the subject, which was of great interest to all present. After routine matters were disposed of a fine supper was served and a social hour was enjoyed, wishing Wm. Knees a safe journey to Germany June 8. Mr. Knees will stop off in Chicago for a day, then to Niagara Falls, then to Albany, down the Hudson river to New York. Theo. Ewoldt will entertain the club at Floral Hill gardens the latter part of June with the annual strawberry supper.

NOTES.

Harry Bills' father died May 9. Mr. Bills was quite well known in Chicago, having lived there for over 25 years.

R. M. C. Rohlff, proprietor of the Alta Vista Nurseries, reports business late but far ahead of last year.

Tri-city florists are well pleased with the promptness in which the Florists Hail Association paid their claims.

A fire broke out in the home of Fred Bahr, damaging his residence to the extent of about $500.

John Staack of Moline, Ill., is on the sick list.

T. E.

Indianapolis.

A BUSY WEEK.

May has been a pleasant surprise in a business way; last week, especially, was an extraordinary busy one. Roses are still of very good quality and plentiful; carnations are not so abundant as they generally are this time of year. The light colored variety of Gladiolus nanus seems to be growing in favor for design work. With continued favorable weather the peony crop is expected to come right for Decoration day this year. High winds and a tendency to hail keeps the much tried owner of greenhouses on his mettle.

NOTES.

Chickens as a side line seem to be popular with the trade. Sidney Smith favors the barred rocks, and Carl Sonnenschmidt has a fancy strain of white rocks, while Fred Huckriede cultivates only the democratic rooster.

Alvin Schreiber, the head of the plant department of the Bertermann Floral Co., on May 14 completed 25 years with this firm. Mr. Schreiber was presented with a valuable gold watch.

Wm. Billingsley has sold out to W. Brandt and will remove to Seattle, Wash., early in June on the advice of his physician.

Fred Huckriede injured his hand severely and has been unable to be about for almost a week.

A. Wiegand & Sons received a carload of Holland grown stock, mainly palms and bay trees.

E. A. Wilson's houses are filled to overflowing with bedding stock.

J.

HOLLY, MICH.—H. J. Green is enlarging and making a number of improvements around his greenhouse on North Saginaw street.

PEORIA, ILL.—Nels Cole ejected S. Tranos rather forcibly from his store and the latter had him charged with assault and battery after accusing Mr. Cole's boy of stealing spoons from his restaurant. The jury was discharged without rendering a verdict May 6.

H. BAYERSDORFER & CO.

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA
Send for our new catalogue.

Le Journal des Roses

Organ of the French Rosarians.

Published at Paris. Once a month with color plates.

Subscription $2.70 per year. Sample copies free

ADMINISTRATION DU **JOURNAL DES ROSES**

a SUISNES, Brie

Par Grisy-Suisnes. (Seine et Marne), FRANCE.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the

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This is the British Trade Paper, being read weekly by all the horticultural traders; it is also taken by over 1000 of the best continental houses.
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As the H. A. is a purely **trade** medium, applicants should, with the subscription, send a copy of their catalog or other evidence that they belong to the nursery or seed trade.
Money orders payable at Lowdham, Notts.
Address **Editors of "H. A."**
Chilwell Nurseries, LOWDHAM, Notts, England

The Advance Ventilating Machine

Is in use in 40 states, has pleased and is pleasing hundreds of florists. Made of the best material, in a mechanical manner, it will last and is always ready for work It will take care of all the ventilation that the shafting pipe will carry. Our shafting pipe at 8c for the double strength and 5c for the single strength, is the best grade, new pipe, all painted, straightened, drilled and furnished with our patent couplings and will satisfy you that we are moderate in our profits Get our estimates, net prices and circular. Give us a trial. We guarantee satisfaction or your money back.

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The first special newspaper in the world for floral arrangement.

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J. Olbertz, ERFURT, GERMANY.

Wired Toothpicks

10,000, $1,75: 50,000, $7.50. Manufactured by

W. J. COWEE, BERLIN, N. Y.

Sample free. For sale by dealers

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KRICK'S GENUINE
IMMORTELLE LETTERS, Etc.
Accept no substitute.
(Every letter marked.)
W. C. KRICK,
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REED & KELLER,

122 W. 25th St., NEW YORK.

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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and re adealers in Glassware, pottery, Decorative Greens and all Florists' Requisites.

Washington.

LATE FROST.

While both official and unofficial hospitalities are on the wane, and preparations for going away engross many, there is always hope for something while Congress is here. A drop in temperature to 22,° a rather unusual occurrence at the capitol city at this late season, occurred this week. Peonies and other outdoor stock have suffered considerably. There has been considerable quantities of outdoor lily of the valley brought in, which was disposed of at very low prices in spite of the good quality. Easter lilies are plentiful, and it is hoped that there will be enough of them to supply the demand at Decoration day. There is an annual increase in the demand for bedding plants, and many orders have been booked for window boxes, a practice which is becoming more popular each year.

NOTES.

Marche & Co. are exhibiting some imported shrub novelties in their Fourteenth street store. They report fair trade at the up-town store. Aside from the regular supply of carnations and roses, Alex. Garden is bringing in great quantities of flowering shrubs.

J. H. Small and Sons executed the decorations for the Senator Knox dinner; the chief feature was a long table, the hollow of which was filled in with American Beauty roses and ferns.

The idea of a floral festival was born recently in the columns of the evening Star and the carnival project received the warm endorsement of all the public-spirited citizens.

John Robertson reports good business, being busy with landscape work, aside from his regular store trade.

W. W. Kimmell is doing a flourishing business in the landscape and window box line.

D. G. Grillbortzer of Alexandria is building two new rose houses, 45x280 feet.

Geo. C. Shaffer reports a busy week with funeral work.

Visitors: C. E. Meehan of Philadelphia and Hugh Ryerson of Newark, N. J. G. S.

Cleveland.

TRADE FAIR.

Business the past week has been fairly good. All kinds of stock are moving in fair shape, although some big sacrifices have had to be made to dispose of same. The variety is now getting larger daily. Fine grades of gladiolus and iris are being shown. Lilac still seems very scarce. The usual week-end bargain sales did not run up as in previous weeks. The opening of the new store of the Sterling-Welch Co. made quite a demand for American Beauty roses and other select stock. A little funeral work helped to move a big supply. Ferns, both fancy and dagger, are very scarce in this market. The usual small plants that are now shown at stores and markets seem to have the stage at present, as can be seen by the large number of baskets of pansies, etc., carried home daily on our street cars for the home gardens. The outlook for Decoration day is bright, as apparently there will only be limited quantities of peonies and other outdoor stock for that day, which will help the prices for indoor stock.

NOTES

A half dozen retail stores, both on the west and east sides of the river, have been the victims of parties who have been ordering flowers from $5 to $20 in value under the name of some orphan home. They would order the flowers by phone and then call for them. One retailer, however, became suspicious and followed one of these boys, who, finding he was followed, left his flowers on the car and ran away.

The floral display at the opening of the new store of the Sterling-Welch Co. was magnificent. Baskets of American Beauty, Richmond and Killarney roses were on all sides, with palms and ferns in profusion.

Fred Griffin, 5711 Euclid avenue, reports trade as very good, his rose sales in particular being exceptionally fine.

R. B. Hayes of Shelby was in town Tuesday. He has a fine lot of seedling white carnations.

Mrs. John Travers, 4920 Central avenue, reports trade as very brisk.

C. F. B.

STERLING IRON RESERVOIR VASES

Original Designs.

Attractively Finished.

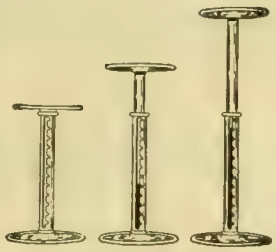
We also manufacture a complete line of

Lawn Furniture, Settees, Chairs, Hitching Posts, Etc.

We are making a special offer to dealers. Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, Lansdowne, Pa.

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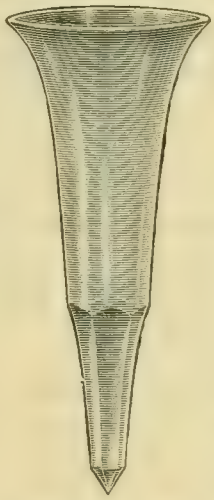

Clara Cemetery Vase

MADE OF SOLID MOULDED GLASS.

12 inches high, with wide flaring mouth. Can be supplied in

Green or White.

Per dozen., $2.50; barrel of 3 dozen., $6.00, f. o. b. Chicago.

Vaughan's Seed Store,

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Best Quality. Hand-made

Greenhouse Glass

Now is the time to buy.

Prices are extremely low.

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MASTICA

FOR Greenhouse Glazing

USE IT NOW.

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MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

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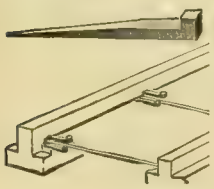

Siebert's Zinc Glazing Points.

Good for small or large glass. do not rust, easy to drive ⅝ and ⅞ inch Per lb. 40c. 5 lbs. $1.85. 20 lbs. $7.00.

VAUGHAN'S SEED STORE, Chicago or New York.

Los Gatos, Calif.

One of the most attractive features of the recent carnival was the excellent exhibit of cut flowers, plants, wild flowers, ferns, etc. This exhibition was held in the pavilion in Carnival park May 1, and was large and varied. The premiums for this show were all cash, and were awarded as follows:

Carnations indoor.—Mrs. Chas. Holdman, first.

Herbaceous perennials.—Kettlewell, first.

Annuals.—Kettlewell, first.

Tulips.—Purdy, first.

Collection of decorative plants.—T. H. Stevenson, first.

Floral design.—Francis Floral Depot, San Francisco, first.

The design chosen by the last named company was a representation of Indians when they came to California in the early days in canoes. The canoes were of bark of African fiber, the balance of flowers and fern. Many good premiums were also awarded for amateurs and school children for wild flowers and flowers grown in the open air. P.

JAMESTOWN, N. D.—Fire, which is supposed to have originated in the furnace room of the Wheeler Floral Co., in the rear of the Dally Capital building, at an early hour May 2, destroyed property to the value of $2,000.

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GREENHOUSE GLASS.

You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint

The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

H. M. HOOKER COMPANY,

WHOLESALE GLASS AND PAINTS,

Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

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Insist upon the best

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Carefully assorted, flattened and packed. We are the

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Farmers' Bank Building, PITTSBURG, PA.

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IMPORTERS and JOBBERS

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Window Glass, Paint, Putty, etc.

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JOHN G. ESLER, Secretary

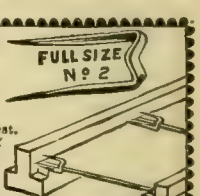
SADDLE RIVER. N. J.

Holds Glass Firmly

See the Point

PEERLESS

FULL SIZE No 2



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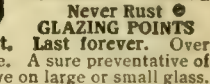

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Tobacco Paper IS THE STRONGEST, BEST PACKED, EASIEST APPLIED.

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

OVER 40% NICOTINE.

Furnishes the Most Nicotine for the Money!

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

By far the CHEAPEST.

JUST NOTE PRICES:

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

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LATEST DISCOVERY

Progressive Growers Investigate

32 page Booklet of Bristish, American and Canadian Testimony free for the asking.

SOLE PROPRIETORS
WILLM. COOPER & NEPHEWS
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INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,
FLUSHING, N. Y.

SOMETHING NEW for GREENHOUSES

"SULFOCIDE"

PRATT'S

SOLUBLE SULPHUR SUMMER SPRAY

Non-caustic and non-irritating

A FUNGICIDE AND INSECTICIDE

FOR FRUIT TREES, VEGETABLES and GREENHOUSES

A promising substitute for Bordeaux mixture. For 10 cts. to cover postage will send sample sufficient for one gallon of spray.

Use 1 part to 75 or 100 parts of water.

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Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

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Published quarterly. Annual subscription for weekly and quarterly numbers, One Dollar. (International money order). Subscribe today and keep in touch with European markets and topics.

The Horticultural Printing Company

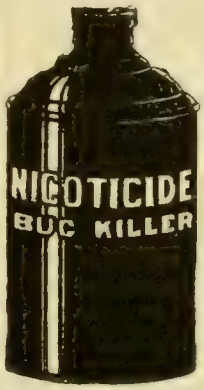
BURNLEY, ENGLAND.

Fresh Tobacco Stems,

$1.50 for 300 lbs.

W. C. BECKERT,

North Side, PITTSBURG, PA.



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A Knapsack Sprayer

With power for Greenhouse and Lawn spraying—nothing like it. Send for photograph and description.

Our Bordeaux Paste and Bordeaux Arsenate

DEATH TO MILDEW AND BUGS.

Why worry when you can have healthy plants and perfect bloom? Don't delay, write us and see what we have to offer you. Address.

NIAGARA SPRAYER CO.,

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Green Flies and Black ones too

are easy to kill with

The Fumigating Kind Tobacco Powder

$3.00 per bag 100 lbs.

Satisfaction guaranteed or money back; why try cheap substitutes that makers do not dare to guarantee?

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"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

The Superior Improved Internal Fired Boiler
Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use: shipped on skids ready for installation. Specially designed for greenhouse use.

Investigate before buying.

Catalogue and Prices on Application.

Superior Machine & Boiler Works,

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The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

John C. Moninger Co., Chicago.

The business of the John C. Moninger Co. has increased very extensively this year and the firm has found it necessary to add a large warehouse, 24x90 feet, which will contain three floors when completed. Some 49,700 square feet of land adjoining the present property has been acquired for a new lumber yard, the plant now fronting on all four sides of the square. The firm has on hand a very large stock of cypress and reports the outlook for greenhouse building better than ever, showing an increase of about 43 per cent over last year.

Greenhouse Piping.

ED. AMERICAN FLORIST:—

Please inform me how to pipe a house 42x133 feet, seven foot sides, four feet of which is glass and three feet cement, 18 feet 3 inches height of ridge, with steam. Returns all to be of 1¼-inch pipe. Would like to run one main pipe through center of house. What size would this have to be to heat house to 54° in zero weather and how many runs of 1¼-inch pipe would I have to use for returns? Can they all be in the side walls? I have one tubular boiler 42 inches x 12 feet high with 40 3-inch flues 11 feet long. Will this boiler heat this house and one other in which we have about 500 feet of radiation?

W. J.

To heat the house described about 1,200 square feet of radiation will be desirable. It would be well to run a 1½-inch main on each side wall and another through the center of the house, and use 15 1¼-inch returns. Four or five of these can be on each of the walls and the others distributed through the house. The boiler should readily handle both houses.

L. R. T.

FISHKILL, N. Y.—Geo. M. Russell is having a small boiler propagating house and a greenhouse erected on his property on West Centre street. It is Mr. Russell's intention to erect another house later in the season.

For The Greenhouse

MOREHEAD
Return Steam Traps

The present improved **Morehead Automatic Return Steam Traps** are the result of twenty years' use and development in thousands of heating and steam plants throughout the world. The "Morehead" was the **original** and has at all times been the **standard** by which the comparative values of other traps have been measured. They've stood the test for 20 years, and have gained the "well-done" of all users. Will you join the ranks? **Catalogue on request.**

MOREHEAD MFG. CO., 1047 Grand River Avenue, Detroit, Mich.

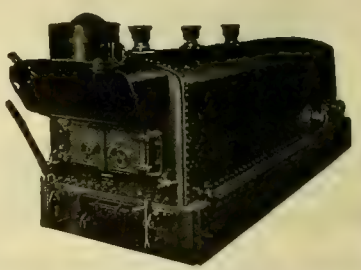
THE KROESCHELL BOILER

is the only perfect
HOT WATER BOILER.

We manufacture every type of boiler in use, but our greenhouse boiler, because of its special construction, possesses many advantages over any other type.

Prices and catalogue on application.

KROESCHELL BROS. CO.
45 Erie Street, CHICAGO.



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IMPROVED VAPORIZING PANS
For Tobacco Extracts, etc. Send for Circulars.
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VENTILATING APPARATUS.

THE STANDARD
VENTILATING MACHINERY

The original machine with self-oiling cups. The most powerful, least complicated, very compact, with ease of operation.

The New Duplex Gutter
Over six miles in use and highly recommended by all. The only Drip Proof gutter on the market.

The Standard Return Steam Trap
It has no equals for simplicity or its working. Catalogue free.

E. HIPPARD, Youngstown, Ohio.

A WIRELESS MESSAGE
IF YOU WANT
BUY FROM PHIL FOLEY
WHO RUNS THE FACTORY
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YOU WILL WEAR A SMILE
CAUSED BY PROFITS
FROM CROPS
GROWN IN HOUSES
BIG RESULTS
WESTERN, ARTESIAN AND CAMPBELL AVES.
25TH TO 26TH STS.
CHICAGO
BUY YOUR BUILDING MATERIAL—WOOD—IRON—GLASS FROM FOLEY

Greenhouse Building.

Bismarck, N. D.—R. D. Hoskins, new greenhouse.

Wayne, Pa.—Howard Clark, two houses, each 18x100 feet; one potting house 20x30 feet.

Chicago.—C. Swanson, 3925 Ridgway avenue, three houses at Forty-fifth street and Western avenue.

Fargo, N. D.—The Shotwell Floral Co., three houses each 22x100 feet.

Hartland, N. Y.—White Bros., greenhouse.

Grand Rapids, Mich.—W. C. Krski, 18,000 feet of glass; Bruinslot & Sons, 20,000 feet of glass; Grand Rapids Greenhouse Co., 12,000-foot addition to the carnation houses; Henry Smith, rebuilding two houses; Will Mulick, two houses for general stock.

Baltimore, Md.—Hilpert & Hammen, one large house on the Belair road near Erdman avenue.

Bangor, Me.—A. J. Loder, one greenhouse 24x140 feet.

Murray Hill, N. J.—L. B. Coddington, one house 55x425 feet.

The Burnham

Send for Catalog.

Lord & Burnham Co.,

IRVINGTON, N. Y.

New York Philadelphia

Boston Chicago

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

S. WILKS MFG. CO.,

3525 Shields Ave. CHICAGO.

New Orleans.

BUSINESS GOOD.

The cut flower trade here has been very good this season and all are well pleased with their season's business. Our gardens now are in all their glory, one mass of flowers. Business from now on will be on the decline, as the people are busy preparing to make their usual summer exodus to cooler climes.

The Horticultural Society took its annual outing to A. Alost's Rose Villa Sunday, May 2, when about 30 members, with Mayor Behrman as the guest of honor, had the pleasure of sitting down to a sumptuous stag dinner. The society, in appreciation of Mr. Alost's hospitality, presented him with a beautiful silver service, C. W. Eichling making the presentation speech. Mayor Behrman complimented the society very highly on its endeavors to assist the several commissioners in trying to beautify the city. As usual, Secretary C. R. Panter was toastmaster. Several speeches were made, and all returned home after a most enjoyable evening.

NOTES.

A. Alost has added two more greenhouses to his already large plant, as he has done a fine business in the plant and cut flower line.

The Metaire Ridge Nursery Co. has done well this season with American Beauty roses and Asparagus plumosus.

Francois Gruaz reports business good this season.

Jas. A. Newsham is doing well with his orchids. D.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler, 60 horse power. 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!

A complete line of locomotive, fire box boilers, Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc., some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings. We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers Other sizes can be furnished at specially low prices. Write for complete list

5 carloads of Boiler tubes 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings; we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

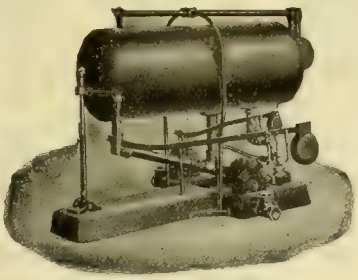
SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets CHICAGO.

Mention the American Florist when writing

INSTALL A :: :: **"DETROIT" Return Trap**



"Detroit" Return Trap. (Patented)

And You Buy a Guarantee.

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

Dept. A. F. DETROIT, MICH.

CHRIS. PFEIFFER BOILER CO.,

66-68 Michigan Street, CHICAGO.

. build a special steel hot water boiler shipped ready for operation. No brick requi[illegible]

Phones; Main 4361. 4399.

Steel Return Tubular Boilers

The Most Economical Type of Boiler for Greenhouse Heating. Highly recommended by well-known florists.

JOHNSTON HEATING CO., 138 E. 31st St., NEW YORK.

FLORISTS NEED SHOW HOUSES.

They look like business and they are business getters. An ice box may be all right for your cut flowers, but how about your palms and foliage plants—why not show them up attractively and give the public a chance to see what you have? But see that you build it right. Our Sectional Iron Frame is what Wilson, the Rochester florist, had us build this one of. He considers it a permanent paying investment.

LORD AND BURNHAM CO., New York. IRVINGTON, N. Y. Boston. Philadelphia. Chicago.

Why Not An Aquatic House?

This is an interior of one of the houses in the range at Mt. Holyoke College, in Massachusetts It adds a distinctive feature to a house, and opens up great opportunities for interesting effects.

This is just a suggestion, but why don't you have such an aquatic pool in the house you are going to build?

Write us and we will gladly help you with plans or suggestions.

Hitchings & Company
1170 Broadway New York

Pittsburg.

MARKET OVERSTOCKED.

Without the little spurts of funeral work, the market would be quite dead. Never in the history of the business has this market been so loaded. Peonies are coming in very poor and are moving slowly. Some very fine orchids, lily of the valley and gladioli are seen.

NOTES.

E. Ashcraft and Miss Rena Schulmire, both of the Pittsburg Cut Flower Co., were married Friday evening. They have the best wishes of all.

The McKeesport Floral Co. has placed a new manager, J. Johnson, in charge of its store.

Harry Hamm of Homewood is going to put a new plant stand on the market shortly.

Miss Lily Geib of the McCallum Co. spent Sunday at her home in Blairsville.

H. L. Blind, of Blind Bros., has returned from his trip through the east.

Pittsburg Cut Flower Co. is handling a quantity of southern iris.

The McCallum Co. is showing some fine Cattleya Mossiæ.

Visitors: Mrs. Ramsfelder of Manhattan Ribbon Co., Chauncy Huscroft, Steubenville, O. J.

PECKY CYPRESS

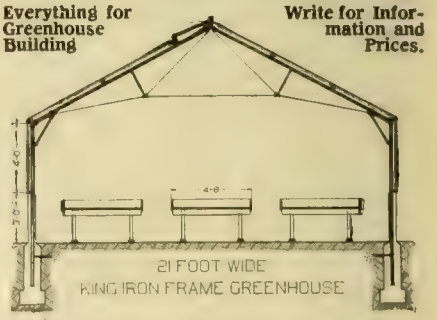
Any Size or Length.

It is the Ideal Lumber for Greenhouse Benches.
LASTS FOREVER.

THE FOLEY MFG. CO.
26th and Western Ave., CHICAGO.

Everything for Greenhouse Building

Write for Information and Prices.



Widths From 14-ft to 54-ft.
WITHOUT POSTS.

King Truss Sash Bar Houses
Iron Gutters and Eaves
Iron and Cypress Benches
Ventilating Machinery

King Construction Co.
NORTH TONAWANDA, N. Y.

WREATH OF CROTON LEAVES AND SWEET PEAS.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, MAY 29, 1909.** **No. 1095**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

AMERICAN PEONY SOCIETY.

Sixth annual meeting at Queens, N. Y., June 8-9, 1909. C. W. WARD, Queens, N. Y., Pres.; A. H. FEWKES, Newton Highlands, Mass., Sec'y.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the every day florist is called upon to perform

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue, as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR PLANT GROWERS.

Rubber Plants.

The extra room after the bedding stock has been taken out of the houses will give the grower a chance to pot young stock of rubber plants and repot any larger stock that may need it, spreading them out and giving them every encouragement to grow. Firm potting is best and the after treatment consists in keeping the leaves clean by occasional spraying and maintaining a moist, airy atmosphere around them. Old stock plants that have been standing around in the greenhouse all winter in out of the way positions will be benefited by exposure to the open air as soon as all danger of frost is past. A plant protector, where they may be screened from bright sunshine, is the best place for them.

Hydrangeas.

Hydrangeas rooted early as advised some time since will now be fit for potting. Plants with single flower heads in 5-inch pots are good sellers and, when needed, these early rooted plants will do well for them. Others may be potted about five in a 7-inch pot and will make elegant little specimen plants in good time for Easter. The treatment now needed is not to get a lot of useless growth into the plants, but to lay a good solid foundation for future usefulness by growing them cool and hard in any airy, light house. Give them lots of room so that the leaves spread out and do their part in building up well consolidated stems, these to be ripened later on by full exposure to sun and air. The point to work for in addition to this ripening is to get fine, plump buds on the end of dwarf shoots, as these, after a winter's rest, start up and produce large, showy heads of flower.

Primulas.

The recently sown primulas will be showing in the seed pans or flats. If the seed was fresh and good the plants will appear all, or nearly all, at once, but should they not do so and should the seed pans appear only very sparely filled, the grower need not despair, as often the seed comes up irregularly and the first seedlings are up and almost large enough to transplant before the latest ones show. In some localities primula growers are troubled with a lot of green scum on the soil, usually the result of using water in which low forms of vegetation exist. So bad was this in one instance that the writer was compelled to place a thin layer of sand on the surface of the soil after sowing and watering the seed. The seeds or spores contained in the water did not germinate so quickly in this material, and when they did eventually appear the surface was allowed to get a little on the dry side, the sand stirred and, by shaking the pans gently, the sand and scum were got rid of and more clean sand put on, first watering the soil. Such a precaution as this is only necessary in extreme cases, but is then very effectual. It is time now to sow the late batches of all these primulas for winter and early spring flowering. Sow in well prepared pans in a shady house or pit with a night temperature of 68° to 70°, dropping this to 65° by degrees as the seedlings appear. Good seeds of the finest strains of these flowers are expensive, but never sow cheap seed under any circumstances. It is sure to be old or of poor and worthless varieties, and the price that can be obtained for the finished product is more to be considered than that of the seed.

Poinsettias.

No more time must be lost in getting the old stock plants of poinsettias started into growth for cuttings, if good plants are needed. Remove the weak points of the shoots before watering and bring the plants up into a good light and a temperature of about 65° at night. Do not water the roots much at first, but spray the heads regularly to induce a free break. The plants need not take much room, as they can be placed close together and the cuttings removed as they become fit. Some growers prefer taking the cuttings when quite small with a thin slice or heel of the old bark, contending that plants from such cuttings are of a better habit than if allowed to shoot out and be cut off. They cer-

tainly have a tendency that way, but the matter is not so important as proper treatment afterwards. Whatever way they are taken, have some fine dry sand and dress the ends of the cuttings with this before inserting them, the sand having a tendency to prevent bleeding of the sap. Poinsettias strike freely in a brisk bottom heat with plenty of overhead moisture, but after they are rooted a much cooler and more airy position must be provided.

Azalea mollis will not usually need any cutting back nor will the Ghent varieties unless there are any extra strong shoots that spoil the shape of the plants. Many growers think these plants of no use after forcing once, and under the usual conditions of neglect they are not. But given this care at the beginning of the season's growth instead of at the end they are well worth saving and, owing to being well established in fall, will force more readily than newly imported plants.

PILLOW MADE OF ROSES AND LILY OF THE VALLEY.

Azaleas.

Azaleas will be perfectly safe outside now and the only protection necessary is a little shade, this being more necessary to the roots than to the heads, though a little shade, such as that cast by adjacent buildings or trees, is an advantage. Like heaths and other fine rooted subjects, the effect of the sun on the pots containing them dries up the delicate tips of roots that are the plant's principal feeders, leading to the foliage burning and poor development of the flower buds, and unless these are well developed at the apexes of the growth it is useless looking for flowers next season. An ideal place for them is in a plant protector, where a length of muslin can be run over them in very hot weather, the pots being plunged quite to the rim in ashes. In watering, the plunging material should be moistened as well as the roots, as this keeps up an agreeably moist atmosphere about them that is very desirable. For this reason the top of the ashes should be stirred over occasionally to prevent its settling down close. Spraying overhead with a good force of water from the hose is also a great advantage.

Forced Hardy Shrubs.

Any unsold plants of thorns, cherries, plums or other of the hardy shrubs should be cut into shape a little and either repotted and plunged outside or planted out for a season's growth. After the disturbance, should the weather prove hot and dry, water carefully for a few days and spray the heads daily, after which they will look after themselves. The plants of

The Indian azaleas hardly come into the category of hardy plants, but should be encouraged in a similar way to make a good growth now, this to be well hardened later by placing them outdoors in a semi-shaded position. Repotting is not often necessary in the case of these azaleas, feeding from the surface usually sufficing. Soot water is an excellent manure for these. Hybrid perpetual roses may be plunged or planted out just as they are to gain strength. The ramblers should have the flowering wood cut away and the new shoots that are starting must be encouraged in every way. If a bush shape is needed these shoots should be pinched, but if needed for training into any shape then they must be allowed to grow into whatever form is needed. These latter must not go directly into the open air and sun, but be protected by light shading for a time in bright weather and encouraged in every way to finish up a strong, vigorous growth.

THE RETAIL TRADE

GLADIOLUS AMERICA is again on the list of cut flowers and retailers will be glad to see this excellent variety.

WE shall be glad to have reports of Memorial day trade from all points and trust that retailers will favor us by writing early and giving full particulars.

The Pillow.

Probably there is no design so popular, next to the wreath, as the pillow. This can be made in a great variety, for, although the form is conventional and all frames are much the same in shape, there can be great difference in their appearance when finished. For out-of-town orders we prefer the single folding frame, under which the supports can be doubled up so that the box, to hold it in transit, is more convenient to handle. The single frame is the one without a top, having only the bottom or dish portion, on which moss can be placed to any height desired. This is bound on with a wire bobbin and shaped up according to the style ordered. As a rule it is best to moss quite high in the center, as this makes the most showy piece without taking much more material. Do not fill the bottom of the frame with bright tin foil. If foil must be used cover with the light or dark violet pattern, the color showing outside. It is better to line the frame with hardy ferns, or, after it is mossed and clipped, pin them all over the surface

PILLOW SHOWING EFFECTIVE USE OF CYPRIPEDIUMS.

RETAIL STORE WINDOW OF PENNOCK BROS., PHILADELPHIA, PA.

on top or bottom. This holds in any loose fragments, prevents the moss from showing through, should there be any scanty places, and furnishes a green foundation that requires less of the more expensive kind when finishing up the design. Too many box frames are seen in such patterns as wreaths, crosses, anchors and other set designs, in which the bright tin foil is very conspicuous, showing on the side as well as on the bottom or back if it is a standing piece. The box form we do not find necessary, as it only makes more surface to be covered up. If mossed carefully the single frames are the neatest and also the cheapest, as they cost considerably less.

Returning to the pillow, the first thing needed is a piece of paper, on which put down the cost of the frame and something for moss and ferns. Then make a list of flowers necessary for the job, with the cost price. If, when these have been used up, it is thought best to add something additional, be careful to see that the danger limit has not been reached. Work of this character made up without a careful accounting of the stock used is very apt to overrun the mark, and when flowers are scarce and dear it is hard to keep within the limit which will admit of the necessary profit. The fact that we are in business for profit is too often lost sight of in the desire to please this or that customer, or to turn out a nice piece of work without counting the cost. An order for a good-sized design is taken, and when completed the design is much admired by all, who feel that they have turned out something fine and realized a snug sum for the house. Now if an account of the flowers used, frame, cost of delivery, etc., is made, it will frequently be found that there is but little margin, as this feature had been overlooked, or the seemingly good price kept constantly in mind led to an extravagant use of material.

The accompanying illustrations show some of the variations in pillows to which there is really no limit. These samples were not made up to be photographed, but were orders and snap shots were taken of them. They are plain enough to scarcely need description, except that in one the small gypsy basket of single violets is not very plain and in another the center flowers are Cypripedium Lawrenceanum.

ROBERT KIFT.

A Handsome Window.

The accompanying illustration is from a photograph of the window of Pennock Bros., 1514 Chestnut street, Philadelphia, and is a fine example of what can be done photographically by a man who knows his business. Usually such a picture shows reflections of the artist and his camera or buildings on the other side of the street and there is usually no depth to it; there is no reflection here, however; in fact it looks as if the plate glass had been removed. The exposure was of 20 minutes' duration at 7:30 p. m., the illumination coming from the regular lights in the top of the window. This window is one of the beauty spots of Chestnut street, the retail street of Philadelphia. The firm does no other form of advertising, concentrating its efforts on the window displays, which are in the hands of Chas. Baxter, one of the employes, who has grown up with the business.

The feature of this decoration is an exhibition of hammered and hand worked brass goods, jardinieres, fern dishes, flower baskets, automobile and hanging vases and wall pockets. These are filled with seasonable flowers, snapdragon, lupins, gladioli, daisies, mignonette, orchids and lily of the valley. The floor of the window is covered with a loose plush, into which the empty pieces are placed to good advantage. The valance at the top of the window shields the electric lights from the eye, which is an important matter in the proper illumination of the window, as bright visible lamps always detract and interfere with the best view of the interior. This window is about 14 feet long by eight feet high and four feet in depth; is kept about as elaborately decorated as is shown here, each week being arranged differently with cut flowers or plants in season or made up baskets. Green or light blue velveteen cloths are used to cover the bottom framework of the window on the color effect desired. In the present instance the brass work, vases, baskets, ferneries, etc., are from the well known house of Bayersdorfer & Co., who are having a great run on this class of goods amongst their best trade.

K.

A Floral Pillow.

SEE SUPPLEMENT WITH THIS ISSUE.

Memorial day tributes to the departed often take the form of a pillow of flowers, usually with some appropriate lettering, and it is a design which the retailer may frequently be called upon to furnish at this time. Looking at the finished article one may think the pillow an extremely easy design to make and so it is. But to make a design stiffly and flat is one thing and to get the best results possible out of it is another and a very different one. From the nature of the design there must be a certain amount of formality in the outline but this need not be hard or heavy if the right kind of flowers and green are used and used tastefully.

White roses, irises and Asparagus Sprengeri make a very effective pillow, the asparagus points standing well out and lasting well. Sweet peas are also suitable if handled with care but there is too much of a disposition to crowd these flowers in bunches in such designs. Half the beauty of these flowers is lost in such cases unless the outline of each flower is seen. Lily of the valley, as we have already pointed out on more than one occasion, is an exquisite subject for the outlining of any set piece and should be used with its own foliage if possible. In short there are plenty of flowers that can be used for a design of this kind and if it is well carried out it almost always gives satisfaction to customers.

May Flowers in the New York Stores.

It is possible for a devotee of the noble art of horticulture to forget, at times, that flowers are commercial factors; to forget the varying interests that sometimes clash over the question of percentage, and take the position of the fond lover whose affections are centered on an object, personal or impersonal, which he loves for itself alone. While in the daily routine of business we cannot get away from the commercial side of the question, we believe that there are times when all of us, so far as possible, should put that feature aside and view the flowers solely on their merits in which they make for beauty and happiness.

Though the orchids have not been as plentiful as at other times there has been enough to supply the demands of the trade and extraordinarily beautiful specimens of cattleyas are frequently seen. We think it appropriate to mention here any new device that will show these grand flowers to the best advantage. The well known supply house of Reed & Keller has recently perfected an invention for the better display of orchids and other decorative flowers when used as centerpieces in table decoration. It is in circular form and of beautiful workmanship. At even distances in the circle there are perforations in which the flower glasses can be placed instantly. This gives an even and artistic arrangement of the blooms. If something very elaborate is desired a vase of flowers or a pan of flowering plants may be placed in the center.

In writing of roses in general, nobody can afford to ignore American Beauty. We believe it is now about 25 years since George Field of Washington, D. C., disseminated this rose. Since that time, though many roses have come and gone, though much valuable space has been devoted to exploiting several varieties that are now "dead ones," American Beauty, in our estimation is yet in a class by itself and at the head of the procession. In thus writing, we are mindful of the fact that the American Beauty, for some purposes, is not as useful as others, that it has not the delicate shading of some of the tea roses, but for

display purposes, for substance, and the qualities that endure, it as yet has no equal. We cannot, in a long experience, recall a month of May when American Beauty has been more prolific, beautiful or been shown to better advantage than during this present month. In writing these comments we have previously expressed the opinion that the epitaph of several of the once popular roses would soon be written.

Alaska-Yukon-Pacific Exposition.

Native Growth and Planted Rhododendrons.

We have experienced no change of faith.

For the past year the decadence of Bridesmaid's popularity in this market has been marked. Within a week a man about town advised a leading wholesaler to devise means for turning his Bridesmaids into attar of roses. That, of course, was intended as a joke but it was a joke with a moral. Richmond is easily disposed of from the fact that, from the beginning of warm weather, it is not in the race. As to Killarney it must be acknowledged that it has obtained a strong hold on the affections of rosarians. It is popular with women of taste and culture, a virtue that at all times has covered a multitude of defects. While blooms of White Killarney are being sold in this market, it is as yet not sufficiently well known to arrive at a fair and impartial estimate of its popularity with the flower-buying public. We can only say that it looks good to us and we have no reason to change our previously expressed opinion that it will be the white rose of the future.

Though the pink variety, Kate Moulton, has been before the public for some time, its introduction to the trade of this city has been tardy. A leading rose grower, a man who only takes up good things, has recently taken up the culture of Kate Moulton, shipping his stock to Traendly & Schenck, of Twenty-eighth street. From what we have seen and heard of this rose, we are satisfied that its popularity will increase as it becomes better known. Another pink rose, named Enchantress, but which has never yet been disseminated, is being handled by the above mentioned firm and from the favorable comments that have been passed on it we judge it has a future.

Though many of the carnations are showing the effects of heat, many good blooms may yet be seen. Enchantress is still a popular flower and no variety that is generally known to the public can compete with it. Mrs. C. W. Ward and Alma Ward are even now grand flowers. We are not dogmatic in our opinions, but again express the belief that it is a mistake that these two varieties have never been disseminated. In the hands of growers who understand its culture, Genevieve Lord is now an attractive feature in the carnation family. Thanks to the enterprise of the Julius Roehrs Co., of W. H. Siebrecht, Anton Schultheis and a number of other growers, this market is now constantly supplied with a good quality of lily of the valley. At present, in addition to this supply, a considerable quantity of the outdoor product is coming in. The stocks may by some be considered old-fashioned flowers, but their profusion and beauty at this time is worthy of comment. A proportion of singles seems inevitable, but we have now splendid blooms of double white and pink. For mixed bouquets, or even for window display purposes, the value and beauty of these flowers cannot be ignored. Our old friends, the sweet peas, are ever with us and each season shows some additions to this sturdy and prolific family.

FLOWERING PLANTS.

In the spring the fancies of the good housewife, the suburbanite and some other people, seriously turn to thoughts of flowering plants. The window boxes, the verandas and the little home gardens are in mind in this month of May. Plants are plentiful and are being sold at figures that place them within the reach of even humble pocket-books. Rose plants in variety, hydrangeas, both pink and white, spireas, as well as others of the larger pot plants are readily found. Of the geraniums, fuchsias, marigolds, candytufts and smaller bedding and window-box plants, their names are legion, and they find a ready sale.

Alaska-Yukon-Pacific Exposition.

THE LANDSCAPE FEATURES.

The illustrations accompanying this note show portions of the grounds of the Alaska-Yukon-Pacific exposition, soon to open at Seattle, Wash. The artificial portion of the work has been costly and well planned but independent of this the natural setting of the exposition is, beyond all question, one of the finest that could possibly be chosen for such a gigantic show. Surrounding the exposition grounds is a forest, and much of the natural verdure has been left. The formal gardens approaching the manufactures and agricultural palaces are similar to those in the public parks of Versailles and are French in design. The first consideration has been the landscaping, floral display, illumination and sculpture. This, combined with the mild climate of the Puget Sound country, the beautiful mountains, lake and woodland scenery and the central location of the grounds will result in the Alaska-Yukon-Pacific exposition being one of the most beautiful and attractive ever planned.

GROUNDS OF THE ALASKA-YUKON-PACIFIC EXPOSITION.

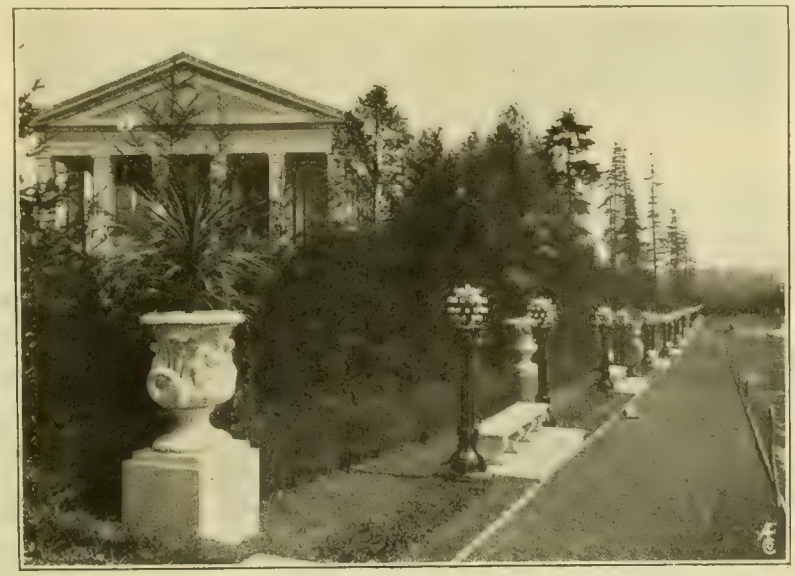
Formal Gardens, Rainier Vista and the South Gate.

In the greenhouses owned by the exposition company are more than 1,000,000 plants of every description to be used in beautiful floral designs and sunken gardens. When the exposition opens, climbing roses, geraniums, rhododendrons, cactus dahlias and many other varieties of flowers will be found massed in profusion about the big structures, giving forth color and perfume from every conceivable nook and corner.

Standing by the Cascade fountain in the exposition grounds and looking a little east of north down Rainier avenue there is what at first seems like a frozen fog on the horizon. It is Mt. Rainier, the highest peak in the United States proper—including Alaska—and is in reality a great snow and ice-clad volcano 14,529 feet in height, finest of all in beauty and stateliness. In winter and early spring the great mass of the mountain is pure snow, but in midsummer the green of the ice begins to show through the mantle in irregular streaks as the snow melts and the eternal glaciers stick their fingers our for a fresh recognition of their supremacy. The great white and green mass which fronts Seattle is in fact the tremendous Carbon glacier, and rising from it is the sheer ice of Willis wall—an ice precipice 5,000 feet from bottom to top.

A little to the west, but still looking south from the central basin of the exposition grounds, there rises another beautiful, snow-clad, conical peak. This is Mt. St. Helena, also discovered by the Van Couver expedition in 1792, and named after a former British ambassador to Spain. It is much further distant—some 20 miles—and is also about 500 feet less in altitude and therefore seems a pigmy alongside Rainier, yet it is one of the notable mountain peaks of the North American continent. Looking off to the east and a little to the north of the same position one finds the horizon barred by the rugged tops of the glacier peaks of the main range of the Cascade mountains. All along in this direction the foothills and summits of the Cascades form the skyline at a general altitude of about 8,000 feet, but in this particular patch the sky is pushed up a thousand feet or more by three great mountains.

The forestry building will be the largest log house ever built, and about the front of the structure will be 124 logs, each 40 feet high and containing 6,000 feet in board measure. The weight of each one of these logs is estimated at 50,000 pounds. The logs used in the exterior of the building are being left in the rough, while those used in the interior will have the bark removed. The landscape and scenic effects alone will, in short, amply repay anyone interested for the time spent in a visit while the educational effect along varied other lines in such a gigantic exposition is incalculable.



GROUNDS OF THE ALASKA-YUKON-PACIFIC EXPOSITION.

Detail of the Landscaping; Music Pavilion to the Left.

Lincoln Park, Chicago, in May.

To be thoroughly convinced of the value and utility of the parks to a city like Chicago such a fine May Sunday as the first day of the present week should be chosen to visit them and note the thousands of health and pleasure seeking citizens of all ages that are making the best use of them according to their own individual tastes. About the golf, tennis, baseball, boating and other pursuits we need say nothing but the horticultural end alone attracts many thousands on such a day, when all the great outdoors seems in sympathy with the joy of living that is expressed in the countenances and actions of the visitors. In Lincoln park the tulips in the flower garden were at the height of their beauty and make a much finer display than last year. The varieties have been well chosen so as to flower simultaneously and make a glorious show and many are the expressions of delight heard from young and old.

MAY TULIPS.

Where all are good it is difficult to single out any for special mention, but three tulips would seem to stand head and shoulders above all others as May bedders, Keizerskroon, Coleur Cardinal and King of Yellows. Keizerskroon is a rather tall grower, yet

standing all kinds of rough weather, with the flowers bright red so deeply edged with yellow that at a little distance this seems to be the predominating color. Coleur Cardinal is the deepest vermilion with a lustrous almost black shading on the outside of the petals. It is a superb tulip. King of Yellows is a pure self yellow and one of the best. There are several large beds of each of these now in the best of condition and those interested should not fail to pay a visit while they are at their best. The older Vermilion Brilliant is like Coleur Cardinal but not quite so showy, though the bulbs have come up and flowered very regularly. In whites there are fine beds of La Reine and Joost von Vondel. The latter is a little early in comparison with the above named, the former just right and a splendid tulip for the purpose. Cottage Maid, as usual, is a delightful bed, the soft pink shading on the white ground being perfect. Besides these there are many large beds of mixed varieties, a few hyacinth beds and some excellent pansy beds that make a very fine display.

The herbaceous borders are of great interest, now that the earlier species are in flower and the later ones throwing up characteristic growths. Two native plants in bloom now are Trilliums and dodecatheons, both flowering finely. Ornithogalum nutans is also flowering, the lily of the valley is almost out, while the pretty little muscari or grape hyacinths, white and yellow, are at their best. Arabis alpina, Alyssum saxatile, some of the dwarf phloxes, pansies and primroses of the polyanthus order are fine in the front of the borders while the summer snowflake, Leucojum æstivum, is also in flower. There are still a few narcissi left and some of the finer tulips are coming in line, soon to be followed by peonies and other summer flowering occupants. The shrubbery is fine in its fresh green, the double almonds, bird cherry, Pyrus Japonica and others being in flower.

THE ORCHIDS

Orchid fanciers will find much to interest them now in the conservatories and they should also get permission to visit the growing houses where there are numbers of rare and little known species in flower. Among the showiest kinds in flower are Cattleya Lawrenceana, a very fine type of this showy species, good C. Skinneri and Skinneri alba the well known C. Mossiæ and the old C. maxima. However much this species deserved its name when introduced it seems out of place now when we consider the many grand flowers of the labiata section. C. Prince of Wales has pure white sepals and petals with pale rose and yellow lip markings and has evidently some Loddigesi blood in its veins. C. Schilleriana is distinct and the only yellow cattleya, the sweetly scented C. citrina, is nicely in flower. Among the lælias are several hybrids including the showy L. Latona, good forms of L. purpurata and L. majalis and several others. Odontoglossum citrosmum is well done here and many fine plants are now in bloom. Among the dendrobiums are such species as D. primulinum and D. purpureum, while

The Cactus Dahlia.
Floral Emblem of the Great Seattle Exposition.

the pretty and distinct Cypripedium caudatum is also well flowered. Among the lesser known kinds we noted the singular Bulbophyllum barbigerum, a flower that the slightest puff of air sets in motion and a very interesting botanical curiosity; Oncidium ampliatum is just coming into flower; Ansellia Africana is showy and there is a small plant of the foxbrush orchid, Aerides Fieldingi, Leptotes bicolor and many cypripediums. The cattleyas in the growing quarters look well and the phalænopsis are improving, P. Luddemanniana being in flower.

There is a grand display in the conservatories of all kinds of flowering plants, azaleas, gloxinias, calceolarias, anthuriums and rhododendrons in great variety. Amaryllis is evidently given some attention and a number of excellent varieties are in flower. The pelargoniums are always good here and are just at their best, while the large baskets of fuchsias, the bougainvilleas and other flowering vines on the roof and the great variety of foliage plants make a splendid show. The ferns and palms are in good condition and all through the growing houses are large stocks of bedding and other plants being prepared for use in the flower garden.

THE CARNATION.

Planting in the Field.

The planting in the field of the young stock should receive attention now. The cold, wet weather has delayed outside planting considerably. They should be planted out without any further delay. The coming two or three weeks is usually a good time for the plants to get root hold and well established in the ground before the very hot weather sets in. The system of setting the plants and the arrangement of the planting ground depends greatly upon the amount of space at disposal. In cases where a large number are to be planted the best arrangement, according to our experience, is to set the plants 14 to 16 inches apart each way. This leaves ample space for working between with a hand cultivator, for keeping down weeds and loosening up the surface soil, but it must be borne in mind that close planting makes it necessary to work the ground thoroughly from the time the plants are set out to keep ahead of the weeds before the plants attain any size, after which it will be difficult to work between them without doing some damage.

Growers handling only a small number of plants and with a limited amount of space at their disposal can plant 10 to 12 inches apart and depend on using the hand hoe to keep the ground clear of weeds. But the distance of setting the plants apart in the field should be governed greatly according to the time of planting into the houses. If early planting is the method followed, beginning to plant inside in July, then closer planting can be followed than if the plants are left out in the field until the middle of August or later, by which time they will have become very large under ordinary circumstances and, if planted too close, difficult to care for properly. A very important point to bear in mind when transferring the plants to

BED OF TULIP COLEUR CARDINAL AT LINCOLN PARK, CHICAGO.

the field is to watch closely the drying out of the roots. It is a mistake to knock out of pots and take outside more than the planters can take care of close up. See that none are planted with dry balls of earth at the roots as it takes considerable time for the roots to get away from these.

When the young stock has been growing in flats or benches of soil be sure they are given a good watering beforehand so that in lifting a good ball of soil is left attached to the roots. If for any reason, such as scarcity of stock, cuttings are taken from the sand or from soil in which they have not had time to become thoroughly established and planted direct to the field, it will be necessary to watch these particularly close for about 10 days or until they have taken hold of the ground. They may need a watering once or twice to give them a fair start. Deep planting should not be resorted to but the balls of roots must be properly covered so that there is no chance of them becoming bare with washings from heavy rains. It is also a good plan to run the cultivator over the ground directly after planting to open it up so that it will not bake and as quickly as the plants are established in the field and new growth commences, pay close attention to topping back the shoots.

C. W. JOHNSON

WITH THE GROWERS

Bassett & Washburn, Chicago.

The stock at Bassett & Washburn's plant at Hinsdale is in excellent condition and large quantities of fine flowers in all lines are being cut. Summer roses are always a feature here, Kaiserin being grown on solid beds, especially for summer use in houses that are allowed to fall below freezing point in winter, thus insuring a thorough rest. The plants naturally throw up with great vigor in spring and one crop of fine flowers has already been cut, another being under way. The shoots are remarkably fine, the flowers of great substance and the plants generally in the best of condition. The same is true of the American Beauty plants grown in solid beds for the same purpose, these being in good crop now and looking very happy.

About 16,000 young plants are already in the benches and a large number of cut backs have also been planted. House after house is in excellent crop, not only of Beauty but of Killarney, Richmond and all the popular kinds. White Killarney is being tried out this season, 5,000 fine strong plants of this much talked of rose being already in the benches. It is evidently quite as good as, if not a better grower, than its parent and too much has been already said about it other ways to need further mention here. Shipping trade has been remarkably good here this season, large numbers of pot roses and rooted cuttings having been sent out. Killarney is also being largely grown here in solid beds with very satisfactory results.

No mention of this plant would be complete without a reference to O. P. Bassett carnation. Already 200,000 have been shipped, not only to growers in this country, but practically to all parts of the world, the demand for it being quite extraordinary. There are still large numbers of it here for home planting in the houses, and the field as well as fine stock of White Enchantress, Enchantress, Winsor and other popular kinds. Some 50,000 have already been planted and there are still many more houses to plant for summer culture inside, besides, of course, the large amount of field-grown stock. Respecting the latter, at the time of our visit field planting was in progress and the stock being transferred to the open was in great shape, fine stocky, sturdy and well rooted plants of which any grower may be proud. About 125,000 are planted annually as well as large quantities of asters for cutting.

Of lilies there will be a good supply for Decoration day and somewhere around 10,000 cold storage Giganteums are being grown for summer use. There is not much else to be noted in a general way, though many interesting points were brought out in a trip around the place with Andrew Benson, the capable foreman here. The many mechanical devices around the place we have noted before in THE FLORIST, but the system of ice storage and cool room is worthy of note. We have already noted the pond from which about 200 tons of ice are cut annually. This is stored on a floor over a cellar in which the flowers are cut and the bulk ice serves the purpose of keeping this room at an even temperature all the year around at no cost, as it must be stored somewhere. As an instance of a most successful catch crop a house of sweet peas must be mentioned. Chrysanthemum stock plants were taken out of this house in February and sweet peas sown and now in less than three months from the date of sowing is a magnificent house of sweet peas from which many hundreds of dozens will be cut for Memorial day and after. Many, in fact, have already been cut and the house will be cleared again in plenty of time for chrysanthemum planting. This structure is not a particularly up-to-date or elaborate one, but it certainly should prove a profitable one.

GROUNDS OF THE ALASKA-YUKON-PACIFIC EXPOSITION.

Section of the Formal Gardens, Showing April Flowers.

CHRYSANTHEMUMS

Notes in Season.

It is time to repot the plants being grown on for exhibition specimens. They should now be in vigorous growing condition and ready for 10-inch pots. At this potting they require a live, rich compost and should be potted firmly. The pots should be thoroughly cleansed, both inside and out, and plenty of drainage put in. A little coarse material should then be spread over the crocks. The soil for this potting should be rather coarse and consist of one part well rotted cow manure to two parts soil with a good sprinkling of ground bonemeal added, about a 4-inch pot to two bushels of soil. It will be necessary to water sparingly until fresh root action takes place and guard the plants against cold draughts. As quickly as the plants get into active growth again the work of topping back the shoots will need constant attention, the size and form of the specimen depending greatly upon this part of the work being followed up closely.

It is also time to give the stock intended for benching a little attention and if the quantity on hand or in prospect does not come up to requirements to make arrangements to fill them. There are a few of the new commercial varieties that showed great promise last season and are in great demand, particularly the following: Golden Glow, Virginia Poehlmann and Pacific Supreme, an early yellow, white and pink. Get in all the stock needed of these varieties also note that the paying varieties are those of proven lasting qualities. If there were any among last season's stock that fell short of expectations along these lines, dispense with them and stock up with some live ones. Another item is to figure a little on the colors for commercial purposes. Not nearly as many pinks as whites and yellows are necessary and but a small proportion of reds and bronzes. There is a very active demand in a retail way for plants of pompons and singles and these should not be overlooked when figuring on the

plantings particularly in the case of those who retail a part or all of their productions. The well trained exhibitor no doubt made his selection of new additions for exhibition purposes at the fall shows and by this time has his plants well under way. The beginner should send a list of his requirements to the chrysanthemum specialists and let them recommend and fill up his wants.

C. W. JOHNSON.

Two Enemies of Black Aphis.

Within the last few days we notice the lace-winged fly (Crysopa oculata) has put in its appearance for the season. This little insect is a foe to the aphis, being exceedingly greedy and exceptionally active in its search for food. In the larval state it will be seen traversing the young shoots and leaves where the aphides are usually most abundant. When within reach it seizes its prey with the two horny, jaw-like appendages to hold it secure and then thrusts its proboscis, or bill, into the aphis' body extracting the juice the same as the mosquito operates on the blood of animals. As soon as this operation is completed the lifeless shell is released and the larva proceeds to the next victim.

The fly which, in the mature state, is a peculiar shade of light green, approaching opalescent tints, entirely except its golden eyes. It is about one inch in length and its large wings are reticulated with a network of ribs to strengthen the thin and transparent tissues. This lace-like reticulation is the source of the common name "lacewing." The larva is one-half an inch long and nearly or quite black in color. Its cannibalistic tendency is so marked, even when first hatched, that nature, to protect the unhatched eggs, has provided that they be deposited on slender thread-like standards out of its reach. Another insect we never intentionally molest for its like habits is the lady bug. The bugs vary in color but are usually a shade of red with black spots, and are rather less than one-quarter of an inch in length. In both the larval and mature state they feed upon aphis. The larva is not as slender as that of the lacewing and the color is a bluish gray with a few small spots of red. ELMER D. SMITH.

The Qualities of a Peony.

In considering the qualities of a peony, color and form are of the first importance. Freedom of bloom is also an important feature, for some varieties, while of good form and color, are such shy bloomers that they are from this quality not desirable for the general cultivator with few varieties, says Robt. Tracey Jackson in a paper read by him before the Boston Gardeners' and Florists' Club. Extra freedom of bloom, on the other hand, is a feature especially desirable. One other point of much importance is strength of stem. Many fine peonies have such weak stems that they flop over hopelessly from their own weight; others stand erect, thereby developing their flowers much better, and showing off to infinitely greater advantage in the garden. Lasting qualities, both on the plant and as cut blooms, are features of importance, especially to the dealer in cut blooms.

Dahlias Unsatisfactory.

ED. AMERICAN FLORIST:—

My dahlias are very unsatisfactory and fail to bloom. The flower buds seem blasted either by insects or some other agency and they do not open. Can you tell me what is wrong and advise me what to do this season?

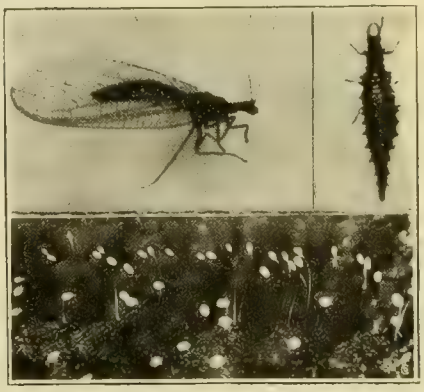
Kansas. E. R. B.

In reply to "E. R. B.," the symptoms given would indicate the presence of the tarnished plant bug. (Lyrgus pratensis). This is the most destructive insect with which the dahlia grower has to contend. Being

The Lady Bug. (Much Enlarged.)

a sucking insect it is immune to poison. It is also a very shy insect, seeking cover at one's approach. The young insect is green in color changing to brown at maturity when it is slightly smaller than the common house fly. It is readily distinguished at all periods of growth by a perfect triangular marking between the shoulders. Its work is to puncture the young shoots and buds, sucking the sap for food. Buds so punctured generally turn yellow and fall and never make perfect flowers.

We can suggest but little in the way of remedy, thinning the foliage if dense will help, but the tedious task of hand picking and killing is the surest. It may be that "E. R. B." has another trouble, that is common to dahlia growers, that of too much manure. This will sometimes run the plant too much to foliage and rob the



The Lacewing Fly.

Mature insect, larva and eggs.

bud of its strength. If it is a case of insects there may be no trouble this season as this particular insect is not always present; some seasons it is not noticeable and rarely ever does it trouble a plant if it can once be brought into full bloom.

W. W. WILMORE.

To Be Done Now.

IN THE GREENHOUSES.

Keep up the watering and, to some extent, the feeding of pelargoniums as the flowers develop and watch for greenfly.

Remove the old flowers and seed pods from rhododendrons and azaleas as they go out of flower; they rob the plants if left.

After the large plants of genista are over and before much new growth is made cut them into shape with the shears and repot them, using rich soil and potting firmly.

Stock of all kinds is growing very freely now and must be given a new stand frequently.

Avoid spraying the heads of maidenhair ferns heavily but keep up a moist atmosphere.

Fuchsia gracilis is very beautiful now and should be made a note of for propagating. It is excellent for conservatory groups.

Shading will be necessary from now on for cyclamens but the light must be kept out as little as possible.

Cut back old winter flowering geraniums and repot after they have made a little new growth, reducing the balls of roots and getting them back into smaller pots.

Continue to look well after the old rose plants. They will be the only money makers for the next four months.

A mild hotbed on a greenhouse bench that is not otherwise used during the summer will be very useful for propagating after the heat is turned off.

Keep a bright lookout on American Beauty roses now for red spider. The first indications in the ordinary way are light, yellowish spots, but by the time these are seen the spider has become established.

OUTDOORS.

Plant out stocks before they get hard in the pots or flats or the flowering season will be short and unsatisfactory.

A quick change must be made from the bulb beds to summer bedding if the latter is to have time to get well established before the hottest weather sets in.

A sprinkling of bone meal and nitrate of soda is a good stimulant to worn or thin places on the lawn.

Be sure that all tomato plants are thoroughly hardened before planting out and avoid watering late in the day until all danger of frost is past.

Plant out bulbs of Lilium lancifolium and its varieties that have not been heavily forced. Many of them, after a season's growth in the open, will force again.

A screen of very light cheese cloth raised a few inches above the cabbage seedbed is a great protection against flying insects.

Propagate pansies regularly now every few weeks by inserting cuttings in a cool piece of ground lightly shaded.

Constant hoeing has many advantages besides keeping down weeds. It disturbs insects and kills many as well as assisting the growing crops.

Where blackberries are lying close to the ground raise the old stems a little in order to keep the fruit off the ground later.

Straight lines may not be beautiful, but where bedding out calls for them let them be perfectly straight or regularly curved as seems desirable. Carelessly planted they are very unsightly.

OSWEGO, N. Y.—E. B. Snow has opened a retail store on Broad street.

GARDNER, MASS.—The greenhouses on the grounds of the late E. Murdock, Jr., were sold by auction May 17.

OBITUARY.

Charles Linnaeus Allen.

It is our painful duty to record the death of the venerable Charles Linnæus Allen, which occurred at his home in Floral Park, N. Y., at noon May 21. Mr. Allen was well known as a seedsman and florist. He was born at Springport, Cayuga county, New York, over 80 years ago. His father was a botanist and a lover of flowers and these traits were, in a large measure, transmitted to the son. Many years ago Mr. Allen was in the seed business on Fulton street, New York, and for a time was a resident of Brooklyn. He later moved to Floral Park, where for the past 20 years he had his home, seed farm and greenhouses. He was not only a practical seedsman and florist, but a student, and a prolific writer on horticultural topics. He was a member of the American Institute of New York and was for years one of its board of managers. He was also a member of the Horticultural Society of New York and his contributions to the literature of these organizations has been interesting and valuable. He is survived by two sons, William Stewart Allen, a well-known wholesale cut flower dealer in New York, and Charles H. Allen, a grower of Floral Park. His wife died about two years ago. The funeral was held at the family home May 24.

So far as we are aware, the last of Mr. Allen's literary labors was the preparation of a paper on "Plant Development," which was read before the New York Florists' Club May 16, and published in THE FLORIST of May 22. At that time he was too ill to attend the meeting, but prepared and sent the paper. On his eightieth birthday, June 13, 1908, a company of friends, children and grandchildren, gathered around Mr. Allen to congratulate him on the event. He read an address entitled "At Eighty," from which we give the following extract, in which he refers to a serious illness which he had just passed through: "Perfect confidence and trust in the Creator, with intense admiration of His every gift, was sufficient assurance that death is as essential as life, and as beautiful—perhaps more so—and that all would be well, no matter what the result might be."

Peter Bauscher.

Peter Bauscher of Freeport, Ill., died May 15 at his home on Adams street. Mr. Bauscher was born in Germany in 1829 and came to this country in 1853, going into the gardening business at Freeport with his brother some time after. This business he carried on until about 12 years ago, when he retired, and the business is now carried on by his son Louis. Mr. Bauscher was well known in Freeport and vicinity being a considerable land owner, Bauscher's addition to the city being his property and named for him.

Hugo Beyer.

Hugo Beyer, of New London, Ia., died May 18 at his home near this city. Mr. Beyer was a native of Germany and has done much good work in horticulture especially with the perpetual flowering raspberry and other fruit plants. Mr. Beyer's wife died some years ago and since then he has lived alone except for his plants in his little home four miles north of New London. He is survived by two sons.

John Cassidy.

John Cassidy, founder of the business of Cassidy & Sons, Long Island City, N. J., died May 18. Mr. Cassidy was a native of County Tyrone, Ire., and came to this country as a young man. Although in his ninety-eighth year he managed the business up to the commencement of his final illness.

Japanese Nurseries and Methods.

It must be borne in mind that the climate of Japan is very much like that of the United States. Though the country is small in area from northeast to southwest it extends 1,500 miles. Within these north and south limits are to be found the mild, semi-tropical climates like that of the gulf coast country, and the colder regions of the northern parts of the country. In the plant growth these differences of temperature and climate are very marked. Hence from Japan, according to S. Arai in a paper read before the State Horticultural Society at Brownsville, Tex., comes such a richness of fruits, ornamentals and flowers for this country.

In Japan are to be found over 100 varieties of oranges. As yet very few of them have found their way to this country. The most notable ones are the Satsuma and the Dugat, the latter variety named from the man who first grew it

The Late C. L. Allen.

in Bee county. Its Japanese name is not known here. In fact as yet it has not been fully identified among the Japanese varieties. The former belongs to the Mandarin class, while the latter belongs to another class. Within the limits of this paper a history of these or any other oranges as to origin cannot be gone into. More attention must be given to the methods of propagation and culture of the nursery stock, larger quantities of which are now coming to this country to supply a most remarkable demand for orange trees.

Here it may be said that the supply of trees for export from Japan for this and the next year is practically exhausted. The past year was a rather hard one on the Japanese farmers and they sold, at close prices, all the stock they could furnish of both Citrus trifoliata and one and two year old Satsumas. So that for next year there cannot be had very many trees for export to this country. In another year the supply of C. trifoliata will be replenished and so there will be plenty of trees to be had again.

Japan is a very small country for the population it has. It has been inhabited a long time. Naturally competition in such a country is keen. Only the fittest in business survive. It takes generations, even centuries, to build up businesses. This is true of the nursery business. A reputation is necessary for existence, and this takes many years to build. For hundreds of years the same families have been raising nursery stock. There are certain species of ornamental plants that are and will remain the property of certain families, and it has taken hundreds of years to develop them.

To be a successful nurseryman in Japan is, therefore, by no means an easy thing. Long experience is back of the Japanese nurseryman, and he and his employes are all experts. Necessity forces them to become so. They are progressive, also, and are not slow to try out and develop new methods. The Japanese nurseryman regards a loss of 5 per cent of trees in grafting as a big one. In budding, the percentage of buds that do not grow is somewhat larger. Also the nurseryman knows his ground and his trees well and must get the very best returns he can from the ground he has to utilize.

He selects for his nursery rather poor soil. In poor soil the roots must forage for substance, and the quantity of fibrous roots sent out in search of plant food is much the greater. When he then uses fertilizer about his young plants, as he must do, the effect is to make a very fine root system. Further, he transplants frequently, and cuts back the longer roots, of course, and this tends to make a fine root system. It is all right to plant the tree in rich soil if it is to stand there, but if it is to be taken up and transplanted it is far better to have the trees grown in poor soil for the reason given.

In the case of Citrus trifoliata they graft much more than they bud. This is done because as the stock becomes older, and they use older trees, the bark becomes harder and budding is more difficult. In the case of other trees, like the peach and plum, where budding is done earlier, before the young stock hardens, the bud is used rather than the graft. No trifoliata stock is used until it is two years old and has good roots.

The government exercises a close supervision over the nurseries. The chief of the Sapling Guild, as he is called, of each district or county, as we call them here, is in charge, and he sends an inspector when application is made for one on taking up the trees in the fall or winter. All trees must be fumigated before shipment, and for this purpose a special house is built. Fumigation in this house is done under the direction of the inspector, and on his approval the trees may be sent out for shipment. But there first must be with the trees a further certificate that there has been no epidemic disease of any kind in that district within the past three months.

Also the Japanese prefer to use budwood from older and bearing trees. H. Harold Hume, the eminent authority on citrus fruit horticulture in Florida, says that it has little or no bearing on the early or later fruiting of the trees. Nor indeed are there any grounds for thinking that it could make any difference. The reason for using budwood from older trees is that it is more symmetrical. The young twig of the orange tree has a tendency to be angular, and as the tree becomes older the twigs become more symmetrical and so the buds are better for use.

The growing of citrus fruits in Japan goes back to time that history does not record. It has been studied and nothing left undone to make it as profitable and as stable an industry as possible. With long years of training and with generations of training behind them, the nurserymen of Japan should understand how to make good trees. They should be good horticulturists. That they are is shown by the wealth of variety of fruits and ornamentals they have contributed to the rest of the world.

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THE observance of Mother's day has spread to Canada as shown by numerous references to it in local papers.

THE declining demand for immortelle and metal wreaths is surely a sign of improved taste, and it means a greater call for genuine flowers and plants.

Profit in Sweet Peas.

ED. AMERICAN FLORIST:—

Not having grown any sweet peas indoors for a midwinter crop before, I felt a little shaky last fall when I read a statement in THE FLORIST that sweet peas did not pay as well, in ordinary cases, as carnations. However, I have picked all through the winter ten times as many sweet peas as carnations for the same bench room, and so the proceeds have been several times as much. Now they have "fought the good fight," and must soon be uprooted, but though ripening (like hay) they flower still.

A. W. H.

ASA GRAY is one of the first 29 names chosen for the hall of fame.

THE twenty-fifth annual convention of the Society of American Florists, to be held at Cincinnati next August, should not be overlooked in making the summer arrangements.

MEMORIAL DAY business will be heavy this year, judging from the reports already received. We shall be pleased to have details from our readers as to the demand, supply and prices in all sections.

The American Rose Society.

THE GOLD MEDAL.

Mrs. Gertrude Hubbard, a lady of Washington, D. C., has established a gold medal fund for the American Rose Society, by placing the sum of $250 in the treasury of our society, the interest accruing from which shall be used each five years for a gold medal, to be awarded to the most promising new rose of American origin. Mrs. Hubbard has taken much interest all her life in stimulating and encouraging people, young and old, to make attractive homes and home surroundings. Mrs. Hubbard has been elected the first honorary member of the society. Peter Bisset, superintendent of Twin Oaks, Washington, was Mrs. Hubbard s agent in the matter.

Doubleday, Page & Co., New York, have submitted a proposition of interest concerning the awarding of a series of medals which will be acted upon at the next meeting of the executive committee. Roses are being planted out this year more extensively than common, and if the rose growers are wise they will throw their support to the American Rose Society by becoming active members.

BENJAMIN HAMMOND, Sec'y.

Glass Tariff.

As a commodity affecting the thousands of greenhouse men, large and small, glass stands a very important factor. The duty levied on glass per pound practically cut out European competition, and prices until about 18 months ago ran high. The gradation of import prices is pound rate of 1⅜c for size not exceeding 10x15, for size not over 16x24 1⅞c, and so on, running higher as the increase of sizes goes until 4⅜c per pound is reached.

When the section of the tariff bill came up before the senate for action, the Hon. Elihu Root, senator from New York state, took up the side of reduction, urging a modification of the present rates. Senator Simmonds of North Carolina, ably took the same ground, urging at any rate a material reduction upon the sizes in common use. The introduction of machine to take the place of hand-blown glass, and the contest for control of the market is the cause of prevailing low price during the past year. The bill as it goes back to the house of representatives will, in many cases, show marked changes. The national demand is surely on all lines for a reduction of duties when summed up as a whole; localities will and do urge strongly in favor of their own interest. Frank R. Pierson, chairman of the S. A. F. tariff committee, has been to Washington twice on behalf of the interests of the S. A. F. and no one not in close touch with affairs realizes the clash of interests one with another, and how some remote and unlooked for item will affect even the flower grower.

BENJAMIN HAMMOND.

The Coal Problem.

Louis Bruch of the American Radiator Co. in a recent lecture before an audience of architects, contractors and engineers, advanced some new principles and theories in regard to modern heating and some new ideas regarding the heat value of coal. He stated that, while in Germany the coal dealers are required to state the thermal or heat value of the fuel they offer for sale, in America we simply buy coal by the ton with no reference to its heat producing value.

In talking with a representative of THE FLORIST later, Mr. Bruch stated that what is known in Germany as commercial coal contains about 12,000 British thermal units per pound, and consumers know exactly how much heat a ton of coal will produce and boilers are rated accordingly. Over here we are willing to take any old thing the dealers choose to sell us and we do not know, or seemingly care how much ash, slate and moisture it contains or what results it will produce. While this is of moment to every user of coal it is of particular interest to the greenhouse men of the country who are large users of coal and if they could buy their fuel on the basis of heat producing value and have absolute assurance that each ton of coal they used would produce a given amount of heat it would materially reduce coal bills.

All reforms have got to have a beginning and a reform of this kind must have concerted action to attain any measure of success. No attention will be paid to the individual demands of one man or several men, but if a strong body of representative men, such as a florists' club, for instance, should take this matter up and insist in getting value received for its money the opening wedge would be inserted, and it would not be long before other representative bodies would join hands with the florists and make the pressure so strong that the matter could no longer be ignored.

Within the past year the U. S. government has awarded a contract of 400,000 tons of semi-bituminous coal for the Panama railroad, specifying that the coal must be equal in grade to the best product of the Pocahontas or New River regions; dry and free from slate, sulphur, dirt and other impurities and guaranteed to analyze 14,600 British thermal units on the "as received" basis. The coal will be inspected by representatives of the technological branch of the United States geological survey, and the samples taken from the cars in accordance with their practice, for analysis. Coal which analyzes 14,600 British thermal units is the standard required by isthmus operations, but coal will be accepted down to a minimum of 14,350 British thermal units upon payment of a penalty by the contractor of one cent per 100 British thermal units, or fraction thereof below the standard of 14,600 established.

When the growers can buy their coal on this basis they will find their annual expense for heating their houses very materially reduced.

Important Foreign Exhibitions.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scotland.

Meetings Next Week.

Albany, N. Y., June 3.—Albany Florists' Club, W. C. King's, 24-26 Steuben street.

Buffalo, N. Y., June 1, 8 p. m.—Buffalo Florists' Club, Saturn hall.

Chicago, June 3, 8 p. m.—Chicago Florists' Club, Union restaurant, 111 Randolph street.

Indianapolis, Ind., June 1, 1:30 p. m.—State Florists' Association of Indiana, State House.

Lake Geneva, Wis., June 5, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Louisville, Ky., June 1, 8 p. m.—The Kentucky Society of Florists, 206 Sixth street.

Milwaukee, Wis., June 3, 8 p. m.—Milwaukee Florists' Club, Quiet House, corner Broadway and Mason streets.

New Orleans, La., June 2, 8 p. m.—German Gardeners' Club, 624 Common street.

Newport, R. I., June 2.—Newport Horticultural Society.

Pasadena, Calif., June 4, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Pittsburg, Pa., June 1, 8 p. m.—Pittsburg and Allegheny Gardeners' and Florists' Club, 422 Sixth avenue.

Salt Lake City, Utah, June 1.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

San Francisco, Calif., June 5.—Pacific Coast Horticultural Society.

Seattle, Wash., June 1.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia streets.

Utica, N. Y., June 3, 8 p. m.—Utica Florists' Club, Hotel Martin.

Washington, D. C., June 1, 8 p. m.—Florists' Club of Washington, 1214 F street, Northwest.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—By first-class, experienced and competent rose grower; 35 years old; $18 per week. Address
Key 820, care American Florist.

Situation Wanted—Gardener and viticulturist good references; married; wishes position; prefers private place. Address
Key 818, care American Florist.

Situation Wanted—As foreman and grower of high grade roses, carnations and general stock by a married man; highest recommendations as to ability. Key 814, care American Florist.

Situation Wanted—Competent grower of carnations and chrysanthemums with general experience in greenhouse work, wants position in commercial place. Address
Key 817, care American Florist.

Situation Wanted—By a young married man; grower of roses, carnations and 'mums, also designer; best references. Address
Key 819, care American Florist.

Situation Wanted—As foreman on good private or commercial place; thoroughly experienced both with greenhouse and out-door work; good references; age 35; English.
Key 815, care American Florist.

Situation Wanted—By first-class cut flower grower; capable of taking charge; roses and carnations a specialty; highest references as to ability etc.; West preferred. Address C. W. W.,
2613½ First Avenue, Seattle, Wash.

Help Wanted—Experienced gardener; good pay and steady position for good man. Call at 3116 Indiana Avenue, Chicago.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address
Key 849, care American Florist.

Help Wanted—Rose and carnation grower, on a first-class up-to-date place; must be temperate; state experience and wages. Address
Key 808, care American Florist.

Help Wanted—Young man in mail order department of a large catalogue house; must be a good potter and able to water; state experience and salary. Key 809, care American Florist.

Help Wanted—A florist experienced in growing 'mums, roses and carnations; to take charge of 4 000 feet of glass, must be single and sober; send reference and wages wanted. Address
Box 632, Pullman Wash.

Help Wanted—Experienced seedsman especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist.

Help Wanted—Working grower foreman 30,000 feet of glass; roses, carnations, 'mums and some pot plants; western man; will pay best wages to competent man. Address
Key 812 care American Florist.

Help Wanted—Reliable florist and gardener for general stock; must be capable of taking charge; good place for the right man; state wages wanted and experience; single man preferred.
WM. WEAVER, McAlester, Okla.

Help Wanted—A first-class grower of roses carnations, chrysanthemums and a general line of potted plants for the retail trade; send references; position open now; good wages.
HUBBARD'S SEED HOUSE, Topeka Kans.

Help Wanted—Reliable traveling salesman to work market gardener trade also to work in store, must have a thorough knowledge of the seed business; good references required.
J. F NOLL & Co. 115 Mulberry St. Newark, N. J.

Help Wanted—A competent young man single, one with a knowledge of carnation and rose growing, and general retail greenhouse work, give reference also state wages with room and board,
H. S. CRUIKSHANK, Florist, St. John, N. B Can.

Help Wanted—Experienced man in shrubbery and herbaceous department of a large commercial place; must be experienced and thoroughly reliable; strictly temperate; give full particulars with salary wanted. Address
Key 810 care American Florist.

Wanted to Lease—With option of buying; greenhouses with from 15,000 to 30,000 feet of glass must be in good condition and well stocked; middle or middle western states preferred.
Key 811, care American Florist.

For Sale—Greenhouse property; 10,000 feet of glass; ideal location; write for particulars to
Box 114, Lansing, Mich.

For Sale—In central northern state an old established florist business over 15,000 ft. glass well stocked, about ten acres land, $2,500.00 down ballance on time to suit purchaser.
Key 799, care American Florist.

For Sale—$500 will buy the only greenhouse and florist business in one of the best counties of Illinois. Possession given after June 15. Investigate this bargain without delay. Address
Key 806, care American Florist.

For Sale—Greenhouse business in the city of Toronto, Ontario, as a going concern; fully stocked; 20,000 square feet of glass, modern construction. Apply promptly
ROBERT W. KING & Co., Agent,
248 Wellington St., Toronto,

Help Wanted.

Experienced man to work on designing and in packing room; must understand the making up of first-class funeral work.
S. J. REUTER & SON, Inc., Westerly, R. I.

Foreman Wanted.

Grower who has been successful with plants as well as cut flowers; must be strictly reliable and sober; state past experience, salary expected, etc. in first letter. Address

Key 816, care American Florist.

Wanted to Lease or Buy

Florists' place, with one to five acres of land within 50 miles of Chicago. Send full particulars, including price and terms. Address

Key 860, care American Florist.

WANTED.

Nursery Foreman.

Permanent position for right party. Must be well up on growing high grade ornamentals, and a good handler of men.

Landscape Foreman.

Experienced in carrying out landscape work and familiar with ornamental stock.

The Elm City Nursery Co.

NEW HAVEN, CONN.

The Season is Late

AND THERE IS STILL

HEAVY DEMAND FOR

BEDDING PLANTS
WINDOW BOX PLANTS
PLANTS FOR VASES

Advertise Your Surplus Now.

After Decoration Day

PRICES WILL DROP

We Shall Have an Immense Stock of Beauties. Roses and Carnations. Roses Very Cheap.

PRICE LIST

AMERICAN BEAUTIES.	Per doz.
Extra long	$ 3 00
20 to 24 inch	2 00
15 to 18 inch	1 50
8 to 12 inch	1 00
Shorter stems	$ 50 to 75

KILLARNEY and RICHMOND.	Per 100
Long and select	$8 00 to $10 00
Good average lengths	6 00 to 7 00
Medium lengths	5 00
Short lengths	3 00 to 4 00

KAISERIN, MAID, BRIDE and PERLE.	
Long and select	$8 00
Good average lengths	6 00
Medium lengths	5 00
Short lengths	$3 00 to 4 00

Short Roses in not less than 500 lots, per 1000,....$20 00

CARNATIONS.	Per 100
Fancy, long, Red O. P. Bassett	$4 00 to $5 00
White and Winsor	3 00
Enchantress, fancy	2 50 to 3 00

SWEET PEAS, pink and white, per 100	$ 50 to $1 00
LILY OF THE VALLEY, per 100	3 00 to 4 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 4 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	2 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, per 1000	2 00 to 3 00

Bassett & Washburn,

Store and Office: 76 Wabash Ave. **CHICAGO.** Greenhouses: HINSDALE, ILLINOIS.

Minnesota State Florists' Association.

The regular monthly meeting of the Minnesota State Florists' Association was held on the evening of May 18 in St. Paul. The entertainment committee reported all bills paid and all tickets accounted for. There was a small deficit made up by members of the trade outside of the association. A discussion as to the advisability of reducing the annual dues resulted in allowing the matter to rest until the annual meeting in September.

A committee of four was appointed to arrange for a picnic in July. A. S. Swanson and E. P. Holm, of St. Paul, and E. Nagel and C. N. Ruedlinger, of Minneapolis, were named as the committee. It was decided to suspend the regular June meeting and instruct the executive committee to call a field day at its discretion.

O. J. Olson of the flower show committee made a report and read a letter from the president of the St. Paul Institute of Arts and Sciences, offering to assume the other expenses of the show if the florists would provide the prize money. Mr. Jorgenson of the same committee reported a similar proposition from the Minneapolis commercial club. Neither proposition being acceptable to the members of the association the committee was instructed to interview the florists of the Twin Cities for the purpose of obtaining a guarantee fund, the committee to meet and report May 24 at the president's office.

Otto Will, who has just returned from a honeymoon trip around the world, gave us a very interesting talk on his travels, after which the meeting adjourned.

S. D. DYSINGER, Sec'y.

Fancy and Dagger FERNS $2.50 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales $1.25
Leucothoe Sprays ..... $1.00 per 100; 1000, 7.50
Boxwood ..... 35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, BOSTON, MASS.

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

New Crop Fancy and Dagger Ferns, $2.00 per 1000.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

New Crop Ferns

FANCY and **DAGGER** ready May 1st.

Special price for large orders

Price $1.25 per 1000.

CALDWELL THE WOODSMAN CO.,

Evergreen, Alabama.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. Smilax, Ferns, Palm Leaves and all kinds of Green Goods.

E. A. Beaven

LOG MOSSES

Natural and Perpetuated.

Special prices for quantity lots for future delivery.

EVERGREEN, ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns. Bronze and Green Galax.

Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK

LOUISVILLE, KY.—Christopher Rossman, who recently arrived here from Illinois where he had been engaged in the nursery business, died May 13.

Poehlmann Bros. Co.

Wholesale Growers of

CUT FLOWERS

33-35-37 Randolph St., Long Distance Phone Randolph 35. **CHICAGO.**

We Are Prepared for Commencements and June Weddings

With a big supply of **Roses, Carnations, Peonies, Lilies, Beauties** and **Valley.** There is always a large demand for cheap Roses for this occasion. We have a good short grade of Roses that we will offer in thousand lots at $30.00.

Poehlmann's Valley, the year around, is the best in the market always.
Harrisii Lilies. The year around, fine, large flowers, long stems.

Orchids. We are now growing Orchids, so that we can supply them from our own plant at short notice. At present we are growing only the different varieties of Cattleyas.

Yellow Roses for Commencements. Large supply.

CURRENT PRICE LIST:

AMERICAN BEAUTIES	Per Doz.
Extra Long Specials	$ 4.00
30 to 36 inch	3.00
24 inch	2.50
20 inch	2.00
15 to 18 inch	1.50
Short, Per 100, $4.00-6.00-8.00.	

	Per 100.
KILLARNEY, Fancy	$10.00-$12.00
Long	8.00
Medium	6.00
Short	4.00
RICHMONDS, Fancy	10.00
Long	8.00
Medium	6.00
Short	4.00- 5.00
MAID & BRIDE, Select	8.00
Medium	6.00
Short	4.00
MRS. POTTER PALMER, Select	10.00
Long	8.00
Medium	6.00
Short	4.00
CHATENAY	Per 100.
Select	$10.00
Long	8.00
Medium	6.00
Short	4.00
PERLE, GATES	8.00
Medium	6.00
Short	4.00
ORCHIDS, per dozen	6.00
CARNATIONS, Fancy	5.00
Select	4.00
Splits and Ordinary	3.00
Harrisii Lilies	12.50
Valley	3.00- 4.00
Daisies, Shasta	2.00
Marguerites	.75- 1.50
Baby Gladiolus	4.00
Peonies	6.00- 8.00
Jasmine	2.00
Sweet Peas	.75- 1.50
Mignonette	3.00- 4.00
Pansies	.75
Leucothoe	1.00
Plumosus Sprays	3.00- 4.00
Sprengeri	3.00- 4.00
Plumosus Strings, Extra Long	50.00
Smilax	25.00
Galax, Per 1,000	1.00
Ferns, Per 1,000	4.00
Adiantum	1.00
Adiantum Croweanum	1.50

Short Roses, our selection, $30.00 per 1000.

BUSINESS INCREASING

Because we give the same **careful personal attention**
to the small orders that we do to the large ones.

AND WE CAN DELIVER THE GOODS

Roses and Carnations Are Our Specialty

And we are equally strong on **ALL OTHER CUT FLOWERS AND GREENS.**

Give us all or a part of your next order and we will convince you that
Our Goods Are Right, Our Prices Are Right, and We Are Right.

ZECH & MANN, WHOLESALE FLORISTS
L. D. Phone, Central 3284
51 Wabash Avenue **Chicago**

Cincinnati.

MARKET OVERSTOCKED.

It is anything but a pleasure to report the cut flower business for the past week. Immense quantities of stock arrived and an outlet had to be found somewhere. After the retailers were through with their purchasing in the morning about two-thirds of the stock remained on the tables and these flowers found an outlet by the fakir, hospital and barrel route. The majority of roses received are inferior grades with variegated foliage; in other words full of mildew. The best stock finds a ready market and this is also true of carnations. There are too many seconds and thirds which are sold for whatever the buyer chooses to pay for them. Sweet peas, which, up to a week ago, were good property were a glut the past week. Outdoor flowers, such as lily of the valley, tulips and narcissi are over, and deutzias, syringas, irises, spireas, etc., were used extensively for decorating windows. Green goods of all kinds are in good demand, which is the one redeeming feature. Peter Olinger takes an optimistic view of the market. He says the biggest glut is passed and after Decoration day we can look for a shortage in some lines.

NOTES.

The board of governors of the Florists' Society held the first weekly meeting May 17 at Sinton hotel, and some very gratifying reports were heard from the various committees in charge of S. A. F. matters. The bowling committee has made arrangements for the Grand bowling alleys, eight in number, and the finest alleys in the city. These alleys are within two blocks of the meeting place and the bowlers will have a chance to get acquainted with them before the tournament. C. E. Critchell and W. H. Gear are responsible for selecting these alleys and are to be congratulated on the selection.

Geo. Corbett of College Hill is very busy unloading his immense stock of bedding plants. Some person thought George did not have enough work, so left a basket with a three-months-old baby on his porch the other day. Mr. Corbett notified the authorities and says he is too busy raising plants at present and cannot devote much time to raising babies.

Hardesty & Co. and the Walnut Hills Floral Bazaar had the lion's share of the work for the Kinney funeral. Some very artistic wreaths and bunches were noticed and American Beauty roses, Lilium longiflorum and sweet peas were the predominating flowers. S.

All Specialties

—FOR—

Garden Parties,
June Weddings and
School Exercises

Should Be Advertised Now

NOTES FROM ST. BERNARD.

Business in this part of the country is about as good as can be expected but the supply exceeds the demand and prices for roses, carnations, etc., are about as low as they ever have been. Bedding plants seem to be in great demand. Geraniums, salvias, etc., are going off rapidly, and Decoration day will probably see a scarcity of flowering plants.

George & Allen have brought suit against the city for losses sustained last winter through the water being shut off from them without cause or warning. The suit is for $5,000 and it is to be hoped that they will get enough out of it to cover their losses, as they were unable to heat their houses. E. M.

NORWOOD, PA.—W. Gregg of Philadelphia, who has greenhouses at Fortieth and Market streets, in that city, is erecting new greenhouses on a tract of land recently purchased by him here.

—THE—
J. M. McCullough's Sons Co.,
Wholesale Commission Florists.
— CONSIGNMENTS SOLICITED. —
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Shibeley-Mann Co., Inc.
WHOLESALE DEALERS IN
FLORISTS' SUPPLIES and Cut Flowers
1203 Sutter St., SAN FRANCISCO, CAL.

Always mention The American Florist when you order stock. : : :

WRITE, WIRE OR PHONE US

Your Needs in Both

Cut Flowers and Supplies. Our stock is large and our facilities for getting out rush orders are unequalled.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago**

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75
	Per 100
Killarney, select	$ 6 00
Medium	4 00
Mrs. Jardine, select	8 00
Medium	$3 00 to 4 00
Uncle John, select	8 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	8 00
Medium	4 00
Chatenay, select	8 00
Medium	4 00
Richmond, select	8 00
Medium	4 00
Carnations, fancy	4 00
Good	1 50 to 3 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Valley	2 00 to 4 00
Daffodils	3 00 to 4 00
Callas	8 00 to 15 00

Asparagus Plumosus Extra quality, per bunch..... 75c
Fancy Ferns, per 1000.....$ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

Kansas City.

PEONIES LATE BUT GOOD.

Weather conditions for the past few weeks have been very changeable, varying from frosty temperature to some very high registers. The nights have been unusually cool and almost every kind of vegetation is backward. Flowers are in most cases plentiful, and there is a slight increase in the demand, occasioned by school commencements in the country. The outlook for Memorial day flowers is only fair. Peonies are from one to two weeks late in flowering, but appear to be in fairly good form. Roses are holding up pretty well owing to the cool nights. Carnations are not so good as usual nor in very large quantity.

NOTES.

The improvements being made at the plant of the Wm. L. Rock Flower Co. are well under way. When completed this firm will have about double the glass it had last season and Mr. Rock hopes to be in condition to take better care of the increasing business.

Mrs. Lamb of Kellogg's enjoyed a trip to Pleasant Hill last week in a new auto she has purchased recently.

J. W. Barnes reports a very satisfactory business this spring, both in store trade and in the bedding line.

The address of the Peterson Floral Co. is now Gillham and Linwood boulevards.

Samuel Murray is making a splendid display of English boxwood and bay trees.

Chas. E. Heite returned from a week of fishing in southern Missouri.

K. C.

Wholesale Flower Markets

ST. LOUIS, May 26.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 5 00
" Chatenay	2 00@ 5 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 6 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 4 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 6 00
Carnations, fancy	2 00@ 2 50
" common	75@ 1 50
Lily of the Valley	3 00@ 4 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy per 1000, $3 00@$4 00	
" dagger " 1 50	
Smilax	12 50@15 00

CINCINNATI, May 26.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, May 26.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	2 00@ 4 00
Callas	8 00@10 00
Cattleyas	60 00@75 00
Daisies	1 00@ 2 00
Lilac	25 00@50 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Peonies	5 00@ 8 00
Sweet Peas	50@ 1 00
Tulips, outdoor	50@ 2 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	3 00
Galax, per 1000	1 50
Smilax strings	15 00

MILWAUKEE, May 26.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodils	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, " "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

FULTON, KY.—Miss Coralie Green is agent here for Schmaus Bros. of Paducah.

Give Us a Trial. We Can Please You

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.
Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,
MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

Chicago.

MARKET TAKES UPWARD TREND.

The market, which had remained dormant for two weeks, continued in its state of lethargy until Friday, when signs of awakening were observed all along the line, and Saturday saw a resumption of business that began to approach the normal. The cool days and cooler nights of the past week lessened the cut considerably and growers who had been sending in anywhere from 1,000 to 1,500 roses per day reduced their cut to 500. This, with the better quality of the blooms, stopped the glut and brought the supply down to within speaking terms with the demand. By Monday everyone was busy, and while shipping orders were very heavy the wholesalers and commission men were able to meet all the demands. American Beauty roses, as is usual at this season, are in large crop and, with few exceptions, are up to the standard. Bride and Bridesmaid are especially good, and while the supply is plentiful there is no overproduction. Richmond, Killarney, Mrs. Marshall Field, Mrs. Potter Palmer and Uncle John are also in good cut, Perle being scarce. Carnations are rather an uncertain quantity and the demand for the colored varieties promises to exceed the supply before everyone is taken care of, and reds, as usual, are more sought after than found. A great many splits were seen early in the week, which is rather unusual at this season, but by Wednesday they were coming in in better quality but in limited supply, and prices took an up turn. Peonies became more prominent at the beginning of the week, though like carnations red was scarce. A great many of these flowers are still in cold storage, as the demand has not been entirely up to expectations, and there will undoubtedly be more than enough to meet all wants. There is no lack of sweet peas, the Spencer types predominating, and of good quality, but lilacs are conspicuously absent.

DECORATION DAY.

Decoration day falls on Sunday this year and the holiday will be celebrated to a large extent on Monday. Sunday, however, will see a large demand for flowers, as hosts of people will go to the cemeteries on that day to decorate the graves, and the wise florist will get his orders in early, as the indications now point to a general shortening up all along the line due to the cold, wet weather, and prices promise to be higher than last year.

NOTES.

Luke Collins, of the Parkside Greenhouses, Seventieth street, has a splendid line of geraniums and other bedding stock for the Memorial day trade. The rapid building up of his neighborhood has increased his trade considerably and he is thinking of extending his greenhouses, probably this season. His geraniums are in all the best varieties, about 20,000 of them, and other stock is in the same ratio. Some outdoor tulips are very fine, flowering the second year, and just about right for Memorial day.

Miss Louise Malcher, a long-time florist at 369 Division street, was married May 20 to Wm. Schroeter, of Columbus, Neb., which city is to be their future home. Mrs. Schroeter will be missed from the Chicago market where she has been so long known. Our congratulations are hearty.

E. H. Hunt has issued a very neat little catalogue extolling the merits of the Wittbold devices for cement benches, claiming there is a saving of 25 per cent in first cost and that they are practically indestructible.

Adam Ziska & Co. have moved their wire shop from their old location with J. B. Deamud Co. to 52 Wabash avenue, where they will have larger quarters, made necessary by their increasing business.

Peter Reinberg is building four houses, each 27½x300 feet, at his new place. The shipping trade in rose plants has been and continues very good here, quite above the average.

Poehlmann Bros. Co. is having a big demand for yellow roses and class colors for commencement exercises, of which the firm has a large supply and is able to take care of all orders.

The J. B. Deamud Co. has booked some very large orders for Decoration day. This firm's peonies were never finer, and while fancy ferns are scarce there will be plenty to go around.

Gilbert H. Wild, of Sarcoxie, Mo., was on the market on Tuesday, and states that he has shipped in 3,000 dozen peonies for the Decoration day trade.

Zeck & Mann are showing a large lot of extra fine Bride and Bridesmaid roses, that are exceptionally good for this time in the season.

Wietor Bros. have six houses of red carnations that are coming along in nice shape and will be ready for the Decoration day trade.

T. E. Waters, of A. L. Randall Co., returned last Saturday from a two weeks' trip through the state. He reports good business.

Jens Jensen's new business address is 804-805 Steinway hall, 17 Van Buren street.

Bassett & Washburn say that roses and carnations are shortening up and they have had to turn down several orders.

The A. L. Randall Co. is getting in some nice Killarney roses and is also showing some very fine butterfly sweet peas.

Visitors: W. A. Kennedy, of the C. C. Pollworth Co., Milwaukee, Wis.; Gilbert H. Wild, Sarcoxie, Mo.; C. H. Woolsey, Rockford, Ill.; H. A. Fisher, Kalamazoo, Mich.; Max Spanard and Wm. Feniger, Toledo, O.; J. A. Peterson, Cincinnati, O.

St. Louis.

BUSINESS VERY LIGHT.

Had it not been for the funerals of some very prominent persons, with exercises at the medical college, business the past week would have been at a standstill. The presence of outdoor flowers has not improved the demand. Memorial day and the June weddings and school closings will help, perhaps, and then the craft can take it easy and figure out profit and loss. Some jasmines of poor quality are in the market and the receipts of peonies are increasing. Outdoor sweet peas will soon be ready. Some good carnations are still seen in the market, also quite a few American Beauty roses, the latter in fair demand. Yellow daisies are selling well. Dagger ferns are in.

NOTES.

The annual flower sermon provided for in the will of the late Henry Shaw, founder of the Missouri Botanical Gardens, was preached May 23 by Bishop Brooke of Oklahoma at Christ Church cathedral. Henry Shaw stipulated in his will that a preacher of note be invited each year to give a sermon on flowers. Flowers filled the chancel of the cathedral and the preacher dwelt upon the wonders of plant life.

The Eggeling Floral Co. has removed all its greenhouses on South Grand avenue to Kinloch, where carnations are now grown extensively, and two more houses will be built this summer. The retail establishment will not be disturbed.

C. Young & Sons Co., Geo. Waldbart and F. H. Weber had some very elaborate designs for the Walsh funeral last Saturday. The trade in general was quite busy that day with funeral work.

Park Commissioner Scanlan has urged the formation of a lake and baseball and athletic grounds at the new Fair Grounds park.

The Mermid Jaccard Jewelry Co., on the occasion of its eightieth anniversary, gave away thousands of carnations to visitors.

John S. Seketer has made a fine fantail gold fish design for the Kelley Floral Co., which desires to advertise this specialty.

Chas. Connon, brother of John Connon of Webster Grove, was married last week.

Mrs. M. M. Ayres has had a splendid spring trade. W. F.

INDIANAPOLIS, IND.—Geo. L. Willner lost his son May 15 by a sad accident; the boy in a spirit of fun boarded a car at the side and, leaping off, got his foot under the car. He died shortly after at the hospital.

WM. W. ABRAHAMSON
Florists' Purchasing Agent.
For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.
21 Wabash Avenue, CHICAGO.

Vaughan & Sperry,
Wholesale Florists,
56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

PETER REINBERG
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LILY OF THE VALLEY.

Wholesale Flower Markets

CHICAGO, May 26.

Roses, Beauty, extra select		4 00
" " 30 in		3 50
" " 24 in		3 00
" " 20 in		2 50
" " 15 in		2 00
" " 12 in		1 50
" " Short		1 00
		Per 100
" Bride, Bridesmaid, select		6 00@ 8 00
" " " medium		4 00@ 6 00
" Chatenay, Sunrise		5 00@ 8 00
" Golden Gate, Uncle John		5 00@ 8 00
" Kaiserin		5 00@ 8 00
" Kate Moulton		5 00@ 8 00
" Killarney, select		8 00@10 00
" " medium		6 00@ 8 00
" Mrs. Marshall Field		6 00@ 8 00
" Mrs. Potter Palmer		6 00@ 8 00
" Perle		6 00@ 8 00
" Richmond, extra select		8 00@10 00
" " medium		6 00@ 8 00
" " short		4 00@ 5 00
Carnations, select fancy		4 00@ 5 00
" common		2 00@ 3 00
Callas	per doz.	1 25@1 50
Cattleyas	per doz.	6 00
Daisies		75@ 1 50
Forget-me-nots		1 00@ 1 50
Gardenias		1 50@ 2 00
Irises		2 00@ 6 00
Lilac	per bunch	25@ 35
Lilium Harrisii	per doz.	1 50@2 00
Lily of the Valley		3 00@ 4 00
Peonies, select		5 00@ 6 00
Snapdragon, per bunch		1 00@1 50
Sweet Peas		1 00@ 1 50
Tulips		2 00@ 4 00
Adiantum		75@ 1 00
Asparagus Plum, strings	each	50@ 60
" " sprays		2 00@ 4 00
" Sprengeri		2 00@ 3 00
Ferns	per 1000	4 00
Galax, green	per 100 15; per 1000	1 00
" bronze	per 100 15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax strings	per doz.	2 00

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Roses and Carnations A Specialty.....

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NOTICE!

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Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.*

HEAVY RECEIPTS WITH LIGHT DEMAND.

It is the consensus of opinion among the dealers that the condition of business during the greater part of last week was about as bad as it could have been. Although receipts were heavy, such a condition has prevailed at other times, but few can recall a time when so large a supply was accompanied by such a light demand. There was not enough life in the market to awaken excitement, even over selling good stock at hucksters' prices. Unseasonably cool weather toward the last of the week, with heavy rain, brought slight relief by shortening up the supply, and the Saturday trade, though not heavy, was an improvement over previous conditions. The lilacs are nearly done, for which most dealers in greenhouse stock are truly thankful. A big stock of peonies is the next thing with which the street must wrestle. Scattering lots of the poorer varieties have been coming in for the past week, but the cool weather has delayed the bulk of the crop. It will come, however, and the indications are that it will come in one big bunch. Turning from this dark picture, there seems a ray of light from the fact that there are prospects of a large falling off in the supply of roses. For the past two weeks this market has literally been deluged with good, bad and indifferent roses, and it is unreasonable to suppose that such a condition can continue much longer. While it therefore appears that there is likely to be much less greenhouse stock for a few weeks, nobody is worrying over the prospects of a scarcity, with the peonies in sight.

May 24.—Stock is rather scarce this morning and prices are advancing. The approach of Decoration day seems to warrant the assurance that prices will be fair throughout the week. The weather, though fair, continues cool, and it seems reasonable that for this week the arrivals will be lighter.

May 26.—Market active.

NOTES.

There is talk floating around about the organization of a baseball team among the young men of the wholesale district. We trust the movement will be successful. It may be that baseball will prove more popular with florists than bowling. Judging from recent events, the most popular sport would be something that could be organized and carried on without expense. That, however, is a hard thing to do in this city.

Miss Lucy M. E. Allen, daughter of J. K. Allen, was married May 18 to Edwin Morgan of Newark, N. J. The ceremony took place at Grace M. E. church, Arlington, N. J. The bride is a young lady who has endeared herself to a large circle of friends by her kind and womanly ways; the groom is a fine young man with promising business connections, and we wish them godspeed.

Joe Millang, manager for the New York Cut Flower Co., is wearing the smile that won't come off. Cause: A young man out at the Bayside home who has been christened Charles Ridgeway Millang. The first two names are said to be in honor of the proprietor of a popular magazine, but that is a matter of secondary importance. Joe has now a girl and a boy.

Arthur Merritt, a skilful designer, well known in the retail trade of this city, has associated himself with the business of Peter F. McKenney. The present location is 114 West Twenty-eighth street, but early in June the business will be removed to Fifth avenue and Forty-second street.

It being reported that Frank Traendly had recently bought a row of flats in Brooklyn, one of the jokers of Twenty-eighth street started the story that he had engaged another well-known wholesaler to serve as janitor of the same, and the laugh is going around.

The news of the death of the venerable Chas. L. Allen of Floral Park, elsewhere noted, was received here with universal regret. Through his interest in horticulture as well as by his kindly personality, Mr. Allen had the respect and esteem of all who knew him.

Joseph Voecke, salesman for W. H. Siebrecht in the Cut Flower Exchange, who last week was reported ill with pneumonia, is again at work. Fortunately for Joe, his case was not as serious as first diagnosed by the medical sharps, but he says he had enough.

R. A. Merritt, well known in the wholesale district through his connection with the flower department at Siegel, Cooper & Co., was married on May 15 to Miss Pauline Stein. The happy couple have the good wishes of a large circle of friends.

Eugene Dailledouze says all his young carnations are planted in the field and looking well. He thinks that at present it is easier to grow carnations than to get a fair price for them, but hopes that conditions will soon improve.

Park Commissioner Henry Smith has asked for six additional policemen to patrol Central park with a view to checking the thefts and destruction of flowers and trees which have been worse this year than ever before.

Chas. H. Totty, Madison, N. J., was in the cut flower district. He says he has had a very busy season and he thinks that conditions are improving.

Wadley & Smythe had a large amount of elaborate work for the funeral of the late H. H. Rogers, a prominent official of the Standard Oil Co.

Manager Coan of the Growers' Cut Flower Co. is disposed to take an optimistic view of the situation. He says that he expects a good June business.

A well known dealer in florists' green visited the wholesale district on May 20 seeking a business location.

Miss Smedley, bookkeeper for J. K. Allen, who has been ill for over a week, is again at her desk.

*[The market report in this column was badly jumbled last week by misplacing a number of lines from another city letter. —Ed.]

Baltimore.

GOOD PROSPECTS.

The season continues backward and a good deal of planting is still to be done. With variable temperatures and long-maintained series of drying winds much of the stock that was set out is at a standstill, but recent rains have soaked the ground thoroughly and started everything. Conditions have not been favorable for cut flowers, but they have been quite abundant enough for the demand which, for the past week, has been the most meager of the year. Carnations keep in full supply and are hard to move at any figure; roses are less abundant, but, as a rule, the quality is not first class and a good deal of mildew is seen. Outdoor stock is abundant and supersedes greenhouse grown for popular uses. The lily of the valley crop was phenomenally abundant and many flowers were wasted. The commencement season is opening and there ought to be some stir along the whole line; then come the June weddings, which promise, it is said, to be numerous if not elaborate and profuse as to decorations. All of this should give some business. There is a great suburban development in this locality. The extension of the trolley system has changed this; opened up towns and suburban settlements and private parks are being established. It would seem that it is only necessary to run an electric railway into a desert and within a year it will flourish and blossom like a garden. Consequent upon this is an expansion of the demand for nursery stock, for which the local nurserymen report an immensely large demand this spring. The planting season has been unusually prolonged this year, and, except for a limited time in April, when there was an abnormal spell of heat, the weather has been favorable. The absence of rain more latterly threatened the loss of some stock in plantations or lined out in the nurseries, but now all seem flourishing.

The wonderful achievements in color photography have gained universal attention, and the beautiful results have been admired by men and women of all professions. To the florist it has peculiar and strong attractions, as the pictures define so much more clearly than old methods the fine points of these products in adding color to the attractions of form. Dr. Wm. Simon, one of our eminent chemists, a lecturer in a college here, is much interested in this new development, and some weeks ago sent to John Cook, the rosarian, then confined to his room but now happily recovering from a prolonged attack of rheumatism, a photograph in color of that gentleman's own productions, Cardinal, My Maryland and several others of his seedling roses, showing their distinctive tints as well as habits of growth and varying outlines of form, making a very attractive and seasonable souvenir for both artists.

Our park board is on the market for an article unique probably in the requirements of that popular branch of the municipal machinery. It wants a zebra; if any reader of THE FLORIST has one packed in camphor or stored away in the garret he may find a purchaser by addressing the superintendent, advising him of its virtues and number of stripes and inclosing a certified check for $200 on some national bank, as an evidence of good faith, as the newspapers say, that it will be really and truly trotted in if ordered. S. B.

THE ANNUAL PICNIC.

At the meeting of the Gardeners' and Florists' Club held May 24 it was decided to hold the annual family picnic July 14 at Avondale, one of the many places accessible to Baltimoreans for an enjoyable summer outing.

N. F. FLITTON, Sec'y.

J. K. ALLEN,

Wholesale Commission Florist.

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39 West 28th Street, NEW YORK

Alexander J. Gullman,

THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

ENOUGH SAID

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PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg. Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, May 26.	Per 100
Roses, Beauty, special	30 00@35 00
" " fancy	10 00@15 00
" " extra	5 00@ 8 00
" " No. 1	3 00@ 4 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	6 00@ 8 00
extra and fancy	3 00@ 4 00
No. 1 and No. 2	1 00@ 2 00
" Killarney special	6 00@ 8 00
extra and fancy	2 00@ 3 00
" Richmond	50@ 6 00
Carnations, fancy and special	4 00@ 6 00
" common	50@ 3 00
Callas, per doz.	40@ 50
Cattleyas	20 00@40 00
Daisies	50@ 1 00
Gladiolus	15 00@20 00
Gardenias, per doz.	1 00@ 3 00
Iris German	25@ 1 00
Lilac, Cut, per bunch	50@ 75
Lilac Outdoor, per bunch	20@ 25
Lilium Longiflorum	3 00@ 5 00
Lily of the Valley	1 00@ 2 50
Mignonette, per doz.	20@ 50
Peonies	4 00@ 6 00
Snapdragons (Antirrhinum) doz.	15@ 35
Stocks (Double white) per bunch	15@ 25
Sweet Peas, per doz bunches	20@ 75
Tulips	50@ 1 50
Asparagus, doz. bunches	1 50@ 2 50
Smilax	10 00@15 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephones: 2200 and 2201 Madison Square.

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WHOLESALE FLORIST,

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And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

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Philadelphia.

MARKET OVERSTOCKED.

The market is filled to overflowing with all kinds of seasonable flowers; what would have happened had it not been for the cold and cheerless weather there is no saying, as much of the stock is now run out in very cheap week-end sales to the street men. A favorite plan is for several to club together, hire a wagon and take a load to a residential shopping center on Saturday night, where they are disposed of to good advantage. There appears to be a surfeit of everything with the exception of orchids, gardenias and peonies; these latter have been held back by the weather, which has been unusually cool for the season. The prospects are, however, that there will be abundance for Decoration day, as a few warm, sunny days will bring them out in quantity. Sweet peas have sold up fairly well, the cloudy weather keeping the shipments light. Good lavender are in demand as a substitute for violets. Lily of the valley of first quality is plentiful and cheap, and withal a good seller. American Beauty roses are rapidly deteriorating in quality and hard to move; the street men get them by the armload. Prices will advance for Decoration day, as commission men say they are booking large orders from out-of-town buyers. Shrubbery of all kinds has been fine and is extensively used for window decoration. Hardy ferns have been scarce, but this week saw the first of the new crop a trifle soft, but much better than the last of the stored goods. Green and bronze imported magnolias are giving the galax a fight for favor; many more are being used than last season. They make a much richer looking wreath, and while they cost more than the galax by the thousand, the leaves are larger and go farther. There is no waste, as they keep until used, and the made-up pieces can be displayed in the store for quite a long time without deteriorating, while the galax soon shrivel, particularly at this season. The commission men are looking forward to a big business for Decoration day, as many orders are already booked. The cold weather of the past week injured the rose crop, as many had drawn their fires, and there is much mildew.

NOTES.

The heating arrangement of the Robert Craig Co.'s new establishment at Norwood has been awarded to Lord & Burnham Co., and Dennis Connor, who represents them in this city, says several new features will be introduced. The installation will be for hot water supplied through 2-inch pipes. An independent steam boiler will furnish steam to run a rotary pump which will force the hot water through the pipes, returning it to the boiler at almost the same temperature at which it is taken out. Steam is also supplied to run a blower which furnishes draft to the furnace, permitting the use of a low grade of fuel, such as No. 2 buckwheat. This economy in heating the water, coupled with the perfect circulation, makes an ideal system for a large place and is a great stride in advance over the past methods.

The Leo Niessen Co. has made great preparations and arranged for a large stock of all the standard flowers. There will be peonies by the thousands, these being one of the best sellers.

Wm. McKissick & Bros. are featuring eastern American Beauty roses, carnations and peonies and say they have everything well in hand for a large business. K.

CLIFTON, O.—Adam Miller is at the head of a committee for floral decorations for Memorial day.

Boston.

IMMORTELLE WREATHS LOSE FAVOR.

Business relaxed considerably during the past week, the usual procedure directly preceding a holiday. Advance orders for Memorial day requisites are being received in good numbers and we look for an average business. The retailers have stored up vast quantities of foliage wreaths. Galax, green and bronze is the leader in this class of goods, box and English ivy being used for the better class goods. The desire for metallic and immortelle combinations no longer exists and only in the very cheapest trade is the demand noticeable. Owing to continued cold weather there is not the abundance of stock being thrown on the market that is customary at this holiday time. Good roses of any sort were practically unobtainable at any price, and the best the market offered brought top prices easily without comment. Carnations have held well and the individual varieties are as good as have been seen this season. Fair Maid is showing up in its usual good form and leaves no doubt of its superiority over all other varieties as a warm weather carnation. This and Winsor are the leaders for colored carnations, and White Perfection has no strong competitor in its class. Lily of the valley, which has been scarce since Easter, is now plentiful and good. Outdoor lilac is now ready. Hydrangeas are the only flowering plants worth recognition, and the local growers have the market well in hand.

NOTES.

The Gardeners' and Florists' Club held its regular monthly meeting May 18 at Horticultural Hall. The feature of the evening was the reading of a paper on "Garden Watering." The author, Peter Bissett, although unable to be present, was loudly applauded for his efforts. Plans are being formed for the picnic in July and the committee in charge is working arduously. The meeting was attended by 125 members.

Louis Small, of Tewksbury, whose fame as a hunter and sportsman is well known, has a handsome motor boat in which he anticipates much pleasure this summer. The captain, Morris Conley and Bert Holden left on Saturday for a cruise to Casco bay, Maine, where Mr. Conley has a cottage. The party reports a pleasant trip and all were on hand for business Monday morning as usual.

The annual May exhibition of the Massachusetts Horticultural Society was held May 22 at the society's building. The exhibition was a typical early summer display. One of the striking features was the display of orchids shown by T. J. Butterworth, of Framingham. Two plants of Cattleya Mossiæ, each bearing from 50 to 60 blooms, were shown. B.

How Plants Feed.

ROLE OF THE MINERAL NUTRIENTS.

As has been already stated, the manufacture of carbohydrates, amides, and proteids demands carbon, hydrogen, oxygen, nitrogen, sulphur and phosphorus, as some or all of these enter into the composition of these substances and protoplasm itself. Let us examine for a moment the specific functions of the other essential ingredients in plant nutrition: viz., potassium, calcium, magnesium and iron.

Numerous experiments and observations tend to show that potassium is necessary for the formation of starch, and in the polymerization of carbohydrates. Some experimenters assume that potassium has an influence on the osmotic power of plants, makes plants more resistant to freezing, and produces color in fruit.

Calcium is essential to the living cells of green plants, but unessential in fungi. Moreover, it has been observed that calcium accumulates in leaves when starch formation is going on, and is associated with starch transfer.

Magnesium is essential to the assimilation of phosphorus, and in its absence oil is not formed. It is always present in chlorophyll.

Iron is essential, as chlorophyll cannot be formed in its absence, and it may be that it is one of the essential components of protoplasm, since it is claimed that fungi which have no chlorophyll cannot do without iron.

TOXIC EXCRETA AND MINERAL NUTRIENTS.

The discussion of this topic is now a live one with agricultural chemists and plant physiologists, as current literature shows. One side maintains that even the best soil becomes exhausted of available plant food materials after a certain number of crops have been removed from it, and that it is necessary to replace the lost mineral nutrients by the addition of fertilizers in one form or another. For example, Dr. Hopkins of Illinois states that 1,000 years of cropping on the average prairie and upland timber soils of Illinois would require every pound of phosphorus in the soil to a depth of 10 feet. There is a limit, therefore, to the amount of essential mineral nutrients in the soil, and that in time there must be exhaustion if nothing be added.

The other side, championed by the United States Bureau of Soils, contends that "the fertility of the soil can be maintained by arranging a system of rotation and growing each year a crop that is not injured by the excreta of the preceding crop"; that "unproductiveness arises from the presence in soils of the waste products of plants," and that "fertilizer salts can bring about or aid in the destruction of toxic organic substances," according to W. Lochead in a paper read before the Canadian Seed Trade Association in Ottawa, February 5, 1909.

The soil, it is contended farther, is not the product of the decomposition of the rock, but rather "is an unconsolidated rock containing the minerals which were present in the solid rock from which it was derived, together with more or less decomposition products." These mineral ingredients are appreciably soluble, and "the composition and concentration of the soil moisture, the nutrient solution, is the same in all soil solutions. All soils contain sufficient plant food for the support of plants; and when the plant takes into its substance some of the mineral matter from the solution, the solid minerals in contact with the solution immediately dissolve, and the solution is restored to its former concentration. The exhaustion of the soil, therefore, is merely a relative phrase and resolves itself into the question of the rate at which the solution can recover itself. This rate is as fast on an acre planted in our ordinary crops as the demand made upon it by the plant."

As is usual in controversial cases there is much to be said for both sides. It is probable that when the discussion is closed it will be found that both sides were right on many points, and that both sides have contributed much to the solution of the problem of fertilizers. It is undoubtedly true that plants excrete certain waste products, but the exact nature of those products is not understood. That some of them are toxic to the plants excreting them or to other plants has been the belief of some botanists for many years, and many instances can be cited when the presence of a certain plant inhibits the growth of another plant beside it. Dr. Schreiner of the United States Bureau of Soils has actually isolated some of these toxic organic compounds from the soil, and is confident that they have been excreted by the plant and not by organisms in the soil. Moreover, he has shown that very minute

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American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

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quantities of this poisonous excretion are sufficient to inhibit the growth of certain plants.

The bureau of soils has also proved that "certain inert substances of no fertilizing value, like carbon black, may produce in certain cases an improvement equal to that of a standard fertilizer. These toxic substances can be destroyed or rendered harmless in various ways:

(1) By the use of certain fertilizers, such as sodium nitrate, stable manure, green manure, whose beneficial effects are in large part due to their action on the soil constituents rather than to the salts carried into the soil.

(2) By "methods of cultivation which promote the aeration of the soil and the growth of micro-organisms that aid in destroying deleterious organic substances."

(3) By proper and systematic crop rotation in which a crop is not injured by the excreta of the preceding crop.

(4) By treatment with absorbing agents such as carbon black.

(5) By the oxidizing powers of the roots themselves combined with substances ordinarily used as fertilizers.

It is claimed, moreover, that chemical analyses of fertilizers are of little value for correcting the difficulties of the soil and rendering them productive, because a fertilizer that improves one soil may not improve another.

Some of the questions under discussion which are not convincingly answered by the bureau of soils are these:

1. Are the different soil solutions found in all kinds of soils in every part of the country of the same composition and concentration with regard to phosphoric acid, potash and nitrates? We know, for example that waters are soft in one region and hard in another, thus making a difference in composition, in this respect at least.

2. Is not a considerable amount of the soil solution lost by leaching and run-off? This must happen, one would think, in sandy soils which have very little retentive power.

3. Will the soil solution recover its normal concentration and composition as fast as the plant disturbs it? Is a soil solution ever saturated?

4. Is there any need of introducing nitrogen to the soil to replace that taken out of it by a crop? Or, is it possible to keep up the fertility of the soil, without the introduction of a clover crop in the rotation, or the use of nitrate or barnyard fertilizers?

5. What is the true function of humus in the soil?

CHOICE

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Wholesale Flower Markets

PHILADELPHIA, May 26	Per 100
Roses, Beauty, extra	25 00@40 00
" " first	15 00@20 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Daffodils	1 50@ 2 00
Gardenias	20@ 35
Lilac per doz.,	1 50@2 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	75@ 1 00
Violets single	35@ 50
" double	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, May 26.	Per 100
Roses, Beauty, specials	15 00@25 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 50@ 3 00
Iris	4 00@ 6 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	4 00@ 6 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, May 26.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

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Carnations, Roses, Beauties,

All Seasonable Flowers.

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15 Diamond Sq., PITTSBURG, PA.

Mention the American Florist when writing

J. B. Murdoch & Co.

714 Penn Avenue, PITTSBURG, PA.

All Seasonable Flowers.

6. If humus is the stable, inert substance that the bureau of soils claims it to be, why does the dark color of the soil disappear gradually under successive cropping?

The majority of agricultural chemists believe, I think, that the amount of food materials in the soil depends partly on the kind of rock from which it has been derived, partly on its fixing power, and partly on the kind and quantity of plants which grow upon it. They believe also that each kind of soil has its own proportions of the different plant nutrients, and that each kind of crop has its own special requirements of food materials. A cereal crop will take from the soil about one-fourth as much potash, about one-half as much nitrogen as a root crop. It would seem, therefore, that the element, whether it be phosphorus, nitrogen or potassium, of which there is relatively the least, determines the productive power of the soil. A deep-rooted plant, like clover, gathers its food materials from a level which a wheat plant, for example, cannot penetrate, hence the practice of alternating deep-rooted crops with shallow-rooted crops in a rotation.

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Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

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Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

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JACOB SCHULZ,
550 So. Fourth Avenue.

SHELBURNE FALLS, MASS.—"We are having severe cold weather here," writes L. S. Fife. "Plants and flowers are coming in very slowly, both outdoors and in the greenhouses, and there will not be nearly enough to supply the Memorial day demand."

FAIRPORT, IA.—Geo. Feustel lost his home, adjacent buildings and part of the contents, by fire May 11. None of his family badly hurt, but the loss will amount to about $4,000 above insurance. His plant was not injured and the business will not suffer any from loss.

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Canada's Best Known and Most Reliable Florist.
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IN HEART OF NEW YORK CITY
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Best Quality on Shortest Notice
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Flowers or Design Work.
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.
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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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Mail, telegraph or telephone orders filled promptly in best style.

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JULIUS BAER,
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The Cleveland Cut Flower Co.
Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

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—FLORIST—
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Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

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Geo. M. Kellogg Flower and Plant Co.,
906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
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FRANK F. CRUMP,
Wholesale and Retail. Florist.

A sign like this in your window will draw good business now.

Steamship Sailings.
Week Ending June 5.

May 30, Bluecher, New York-Hamburg.
June 1, Ivernia, Boston-Liverpool.
June 1, Saxonia, Liverpool-Boston.
June 1, Pannonia, Trieste-New York.
June 1, Ryndam, New York-Rotterdam.
June 1, Kaiser Wilhelm II, N. Y.-Bremen.
June 1, Kronprinzess'n Cecilie, Br'm'n-N. Y.
June 1, Estonia, Libau-New York.
June 2, Campania, New York-Liverpool.
June 2, Majestic, New York-Southampton.
June 2, Teutonic, Southampton-New York.
June 2, Pennsylvania, New York-Hamburg.
June 2, Alice, New York-Trieste.
June 3, Bremen, New York-Bremen.
June 3, Cassel, Bremen-Baltimore.
June 3, Hellig Olav, Copenhagen-N. Y.
June 3, Barbarossa, Genoa-New York.
June 3, Tunisian, Liverpool-Montreal.
June 3, Slavonia, New York-Trieste.
June 3, Laurentic, Liverpool-Montreal.
June 3, Manitou, Antwerp-Boston.
June 3, Batavia, New York-Genoa.
June 4, Corsican, Montreal-Liverpool.
June 4, Baltic, Liverpool-New York.
June 4, Empress of Ireland, Montreal-L'p'l.
June 5, Pomeranian, Montreal-London.
June 5, California, New York-Glasgow.
June 5, Furnessia, Glasgow-New York.
June 5, Philadelphia, N. Y.-Southampton.
June 5, New York, Southampton-N. Y.
June 5, Merion, Philadelphia-Liverpool.
June 5, Caronia, New York-Liverpool.
June 5, Mauretania, Liverpool-New York.
June 5, Florida, New York-Havre.
June 5, Chicago, New York-Havre.
June 5, Zeeland, New York-Antwerp.
June 5, Lapland, Antwerp-New York.
June 5, Celtic, New York-Liverpool.
June 5, Finland, New York-Genoa.
June 5, Deutschland, New York-Hamburg.
June 5, Prinzess Irene, New York-Genoa.
June 5, Russia, New York-Libau.

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571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.
Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
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Cor. Miami and Gratiot Aves.
Artistic Designs.
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60 KEARNEY STREET.

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C. C. Pollworth Co.
Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24 1909.

NEW YORK.—John Bodger and wife sailed for Europe on the S. S. Carmania, May 22.

WE have further reports of insufficient moisture for California crops during April and May.

THE death of C. L. Allen, Floral Park, N. Y., May 21, is recorded in our obituary column, page 905.

MINNEAPOLIS, MINN.—C. C. Massie and D. Hamilton of Northrup, King & Co. sailed from New York on the S. S. Baltic for Europe May 26.

LONG ISLAND CABBAGE, now beginning to bloom, is looking well and promising good, but still must run the gauntlet of insects, storms, etc.

CHICAGO.—Contract prices on the board of trade May 26 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.

E. J. DEAL, of W. W. Johnson & Son, Ltd., Boston, Eng., is planning to visit the United States in August and September, sailing from Liverpool July 31.

G. C. ELDERING, representing W. J. Eldering & Son, Overveen, Haarlem, Holland, who has been in the United States several weeks, reports very satisfactory business and will sail from New York on the S. S. New Amsterdam, June 8.

SAGINAW, MICH.—W. H. Grenell says pea planting is dragging and that some farmers are returning seed, stating they cannot plough the land and it is getting too late to sow. Cannot expect a full crop this year.—Mrs. W. H. Grenell and Miss T. M. Swett sailed on the S. S. Carpathia for Naples May 20, and will make a tour of Europe, returning in August.

HOLLISTER, CALIF., May 25.—In the case of Braslan versus Pieters, Judge Vannostrand of the superior court of San Francisco today denied the motion of the A. J. Pieters Seed Co. for a change of venue to the court of Hollister. The hearing for the appointment of a receiver for the A. J. Pieters Seed Co. is set for June 3.—San Jose (Calif.) Mercury.

SAN JOSE, CALIF.—Fred S. Plant, president of the Plant Seed Co., St. Louis, is a visitor this week.

IOWA SEEDSMEN.—The annual meeting of the Iowa Seed Dealers' Association will be held at the Chamberlain hotel in Des Moines, June 1, and it is believed that there will be a full attendance of members present as quite important matters are to come up before this meeting.

MT. STERLING, KY.—Commonwealth's Attorney Conner has sued the Bluegrass Seed Co. and six other citizens. Each is sued for $5,000. They are charged with forming a trust to control the price and sale of Kentucky bluegrass seed in violation of the state anti-trust law.—Maysville Public Ledger.

LOS ANGELES, CALIF.—About June 15 H. L. Musser, president of Aggeler & Musser Seed Co., will depart for an extended eastern trip, visiting his aged mother at Marietta, Pa., and will also visit the various large cities throughout the east in the interest of the seed business. During the 14 years Mr. Musser has been on the coast he has made a thorough study of local market gardening, and has been successful in introducing many new varieties of vegetables, among which are the casabas, for which his firm is famous. He will endeavor to interest eastern seedsmen in these creations, and will also secure such novelties as he may find in the eastern market. Mr. Musser will be accompanied by Mrs. Musser and their daughter Mary.

AFTER spending six months in southern Europe, A. H. Goodwin, vice president of the W. W. Barnard Co., Chicago, returned to business last week more than ever convinced that the climate of southern California is superior to that of Italy and Austria. Mr. Goodwin cast business cares to the winds while abroad and did not go near a seedsman, but says that this is the worst season in 20 years in the seed business of southern Europe, due, it is claimed, to the cold, wet weather and recent earthquakes. He talked very entertainingly of his visits to Buda Pesth, Naples, Venice and other of the principal cities of that part of Europe, and was in Venice when the kaiser visited that port. He was in Sicily at the time of the earthquake and was reported lost. Later he passed through the straits of Messina and viewed at close range the ravages of the great upheaval. It is his belief that from 50,000 to 75,000 people are still buried beneath the ruins of Messina whose bodies will never be recovered.

Michigan Peas and Beans.

Alpena, May 24.—The season is unusually late with us and as it remains so cool, with an occasional rain, the ground dries very slowly, especially the low ground, which will be sown very late. Aside from these conditions we think that the prospects are fairly good up to the present time.

In Northern New York.

Le Roy, May 20.—The weather conditions for sowing peas have been extremely unfavorable during the past two months, and the few peas which have been sown in the seed pea growing sections, have been sown a month later than they should have been, which is quite likely to result in an unsatisfactory crop. The weather conditions thus far this season have been very similar to a year ago and the prospects for a good pea crop are far from being satisfactory to growers or seedsmen.

American Seed Trade Association.

ANNUAL CONVENTION.

The seedsmen meet on the Canadian side of Niagara Falls June 22-24, with headquarters at the Clifton hotel, which is claimed to be an ideal location, its beautiful glass-front dining room facing probably the finest possible view of these magnificent falls. The central location here, midway between the east and west, should insure full attendance and the location and surroundings make a great success both commercially and socially. An unusually fine programme has been arranged, including the following papers: "The National Organization of Seed Analysis—Its Purpose and Scope," by Dr. E. H. Jenkins; "Root Crops," by Prof. C. A. Zavitz; "Seed Legislation—Its Uses and Abuses," by Prof. L. H. Pammel; "A Campaign for Rural Progress," by Prof. L. H. Bailey; "The Deterioration of Types of Cabbage," by J. M. Lupton; "Color Photography," illustrated with views from nature, by J. Horace McFarland.

European Seed Crops.

London, May 1.—Cooper, Taber & Co. report as follows: The exceptionally long and severe winter, following on a mild and wet autumn, has destroyed many of the best plantings, and seriously damaged the whole.

Beet.—Table varieties seriously damaged, especially the extra early kinds. Crosby's Egyptian and Detroit will be very short. Long varieties are doing fairly well.

Beet.—Sugar and Swiss Chard have suffered severely, and the same is true of Mangel Wurzel. In each case a large acreage was planted.

Borecole, Brussels Sprouts and Kohl Rabi are a moderate stand.

Cabbage.—All varieties have been badly damaged, but it is not possible to say definitely now what proportion will survive.

Carrot.—Long varieties are standing well but the early short varieties are about 25 per cent less than planted.

Celery.—All varieties nearly destroyed and the crops will be very small.

Celeriac.—About one-half standing.

Endive and Leek.—Moderately good.

Onion.—Italian varieties promise about two-thirds of a crop. French grown varieties will be short.

Parsley and Parsnip.—Nearly an average.

Radish.—Winter varieties about two-thirds standing.

Rutabaga.—American and Long Island Purple-top doing well; Universal nearly a failure; Best of All, Monarch or Elephant and Magnum Bonum doing very badly; other varieties fairly good.

Turnip.—White Globe Strap-leaved failed; Golden Ball, Early Red (Purple), Top Globe and Purple and White Milan will be very short; other varieties promise more than half a crop.

Annual Crops.—Stock seeds are all sown, but nothing further can be reported at present.

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

WINTER SWEET PEAS

Have been the best money makers during the past winter. New price list of these **celebrated Sweet Pea Seeds** will be ready soon. Send for it to the originator,

ANT. C. ZVOLANEK, Bound Brook, N. J.

S. M. Isbell & Co.

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Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,

Correspondence solicited.

☞Write for Prices on Surplus Stocks for Immediate Shipment.☜

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

Reliable Seeds, SOW NOW

PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Waldo Rohnert

GILROY, CAL.

Wholesale Seed Grower

Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety. Correspondence solicited.

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Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

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PANSY SEED

175 First Prizes, the highest awards Chicago, Paris, London, Dusseldorf.

1000 Seeds, finest mixed....25c
1 oz. " " " ..$2.25

☞ Price list on application. Cash with order

Jay J. Utter, BRAVO. MICH,

Contract grower of Beans, Peas, Sweet Corn Squash, Cucumber, Watermelon and Muskmelon

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

April is the month to sow this seed.

ASPARAGUS PLUMOSUS NANUS,

Northern greenhouse grown, seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Green houses, Trial Grounds and Nsurery, Western Springs, Ill.

BULBS Cut Prices to Close Out I Must Move Them.

TUBEROSES Very Fine Bulbs, Good Bloomers.

Plump,	3 to 4-inch	Per 100, $ .40; per 1000, $3.00
Fine,	4 to 6-inch	Per 100, .70; per 1000, 6.00
Monster,	5 to 7-inch	Per 100, 1.00; per 1000, 9.00

CYCAS STEMS.

2 to 10 lb. stems.

Per lb. 7c. Per 100 lbs. $6.50

Spotted Leaf Callas.

Per doz. 80c. Per 100, $5.00

Tuberous Roooted Begonias

Look at this Price!

Fine Bulbs.

Single mixed.....$1.50 per 100
$12.00 per 1000.

ASPARAGUS PLUMOSUS NANUS SEED.

Fresh and fine,.....per 100 seeds, 25c.; per 1000 seeds, $2.50.

STOKES' SEED STORE, 219 Market Street, PHILADELPHIA, PA.

Lilium Harrisii

The best grown. Absolutely pure stock.
Free from disease. Apply at once to

George W. West, Shelly Bay, Bermuda.

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors	⅛-oz. 60c;	oz. $4.00
Pure white	⅛-oz. 75c;	oz. 5.00

H. E. FISKE SEED CO.,

Faneuil Hall Square. BOSTON, MASS.

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

Improved Teneriffe Onion Seed

Generally called Bermuda. These seeds can only be obtained in the U. S. through seedsmen and dealers, and not through growers' associations. **Varela's Improved Onion Seeds** will give best satisfaction to growers. Insist on getting them It will pay you.

Federico C. Varela, Teneriffe, Canary Islands

Lily of the Valley

MANN'S EXCELSIOR

Are the finest in existence and their flowers bring the best prices in the London market. For quotation please apply to

OTTO MANN. Leipzig. Saxony, Germany.

NOW READY 1909 EDITION Trade Directory.

Congressional Seedsmen.

PUBLIC PAYS SALARIES AND SUPPLIES SEEDS.

If the current custom of indiscriminate distribution shall indefinitely continue, if this congressional comedy shall drift into a continuous performance, we shall ultimately be driven to the mournful admission that we are not statesmen, but seedsmen; and it will be in order for some distinguished seedsman, some sainted hero of a score of memorable distributions, some legislative knight upon whose shield is blazoned a radish in its glory or a turnip in repose, to arise in his place with becoming gravity and move, Mr. Chairman that the American eagle be taken from the mace and supplanted by a package of vegetable seed as the supreme emblem of the genius, the character, and the principal occupation of American statesmanship.—*Morris Sheppard, of Texas, in House of Representatives.*

Uncle Sam's Free Seeds.

HISTORY OF A GRAVE IMPOSITION.

The board of directors of the Wholesale Seedsmen's League, at its meeting on April 1, passed a motion expressive of its disapproval of the methods and extent of the congressional free seed distribution as a restraint of trade, and, they might have added, as class legislation, always much opposed to the American idea. To make clear how this abuse has developed, I give a brief record of the appropriations by congress over a series of years to cover the costs of the seeds purchased and distributed.

The first distribution was made in 1839, now 70 years ago, the distribution then being made by the commissioner of patents, the expense being $1,000 with which 30,000 packets were distributed. The patent office continued annually thereafter to distribute seeds, the expenses all the while increasing, the money being taken out of the appropriation for agricultural statistics. In 1852 the first special seed appropriation was made by congress. By 1864 that appropriation had arisen to $50,000, and thenceforward for 45 years, as follows:

Year.	Ttl. App'n.	1887	$ 100,000
1865	$ 61,000	1888	103,000
1866	70,165	1889	104,200
1867	115,000	1890	104,200
1868	85,000	1891	105,400
1869	20,000	1892	105,400
1870	20,000	1893	135,400
1871	30,000	1894	135,400
1872	43,000	1895	165,400
1873	55,000	1896	185,400
1874	65,000	1897	130,000
1875	95,000	1898	130,000
1876	65,000	1899	130,000
1877	85,000	1900	170,000
1878	75,000	1901	170,000
1879	75,000	1902	270,000
1880	75,000	1903	270,000
1881	102,157	1904	290,000
1882	100,000	1905	290,000
1883	80,000	1906	242,920
1884	75,000	1907	240,920
1885	100,000	1908	287,000
1886	100,000	1909	258,000

In 1900 the distribution had grown to 15,000,000 packets, not of rare varieties, but of common every-day seeds, such as turnip, cabbage, radish, pumpkin, as can be obtained from any cross roads store; there is nothing in these seeds to advance the agricultural tone of the country. This 15,000,000 packets of 1900 has increased by leaps and bounds until now it is proposed to issue this spring 60,000,000 packets of free seeds, common every-day seeds, to be sent out from the United States seed shop. In these 60,000,000 packets at a retail price of five cents per packet is represented a restraint of trade to the extent of $3,000,000. Certainly this paternalism is a restraint of trade, as the volume is equal to half the annual sale in small flat packets of that of all the seed houses of the land. The interesting point is raised that this restraint is by the government itself,—not by some individual or some trust, but by government.

The original intention of the authors of the governmental free seed distribution was to advance the art of agriculture by the introduction of new or but slightly known and supposedly valuable varieties drawn from all parts of the world of seeds of vegetables, fruits, flowers, grains, grasses, fibers, forage plants, and the encouragement of new agricultural industries,—an excellent plan—really a statesman's idea,—and for which $50,000 should be ample, but the Department of Agriculture seriously fails in these purposes, for now the free seed distribution is mostly of the most common varieties of seeds, purchased at the cheapest price, an example of offensive class legislation with a vengeance. It is an octopus, a gigantic graft, supported in its increasing growth by the votes of the country members of congress who wish to compliment, at the expense of the tax payers in general, their rural constituents by presents of free seeds, 62,000 packets from each congressman, in the hope that they may be re-elected to office as good fellows and again get more graft, a practice discreditable to congressmen as the law-makers of the land, discreditable to them as men, take them in any sense, for they all well know the whole distribution is such a farce and a stench as drags the United States Department of Agriculture far below the dignity of any other department of government; it is a department which should be the people's pride, but, by the free seed distribution of standard varieties of seed, it is made the butt of every joker in the land.

Why should seedsmen handle this subject with gloves—kid gloves? Any other commercial interest so outrageously interfered with would use sledge-hammer arguments. The congressmen know this is one of the most offensive grafts, as it is an annual and steadily increasing fraud, and that its promoters and abettors are only grafters. They know that the nearly $300,000 wasted on seeds and labor is only half of what the distribution costs the government, for there is a secondary expense of an equal amount forced on the post office department by the loading down and blocking the operations of the post-offices, mails and delivery men by the thousands of tons of mail matter, an expense saddled on a distinct department of government and just about equal to the amount of money spent on seeds and their handling by the Department of Agriculture. The whole seed subject as connected with the government is most unsavory.

It is the lower branch of congress upon which rests the blame for the continuance of this most ridiculous and asinine free seed distribution as inclusive of common seeds of garden vegetables. The Secretary of Agriculture, as head of an executive branch of government, must carry out the several provisions of the general act of congress known as the agricultural appropriation bill, assigning money for various purposes, and among these ordering and defining the free seed distribution as inclusive of garden vegetables. But if congress would cut out the garden vegetables and direct that the cash expended be only used for the purpose of purchase and distribution of big things, as Durum wheat, and other foreign varieties of wheat, oats, rye, barley, seeds of foreign and promising grasses, clovers, fibers, fruits, the already good work done at a very small expenditure compared with the waste of cash for common garden seeds, would be increased five-fold, resulting in an almost inconceivable profit to the nation. Of course it is too late to arrest the free seed distribution this spring of 1909, but it is hoped that the president of the United States can be induced another year to veto the entire agricultural appropriation if it contains a repetition of this most offensive form of congressional graft.

BURNET LANDRETH.

Seedsmen's Convention—Niagara Falls—June 22-24, 1909.

Attention of delegates to the above meeting is invited to the fact that the Wabash road is the short line from Chicago to Niagara Falls; indeed, to many people it is known as the "Niagara Falls Short Line." This road operates by way of Detroit, (where a stopover of ten days is permitted on either the going or returning trip) and across lower Canada. Rates via the Wabash are lower than any other direct Niagara Falls line and the service is excellent. Leaving here at 3:00 p. m., June 8th, you reach Niagara Falls the following morning just at breakfast time. First class standard sleepers. Wabash dining cars are

THE COLORS OF FLOWERS

Are Best Determined with the Aid of

OUR COLOR CHART

Arranged by F. Schuyler Mathews and lithographed by Prang, this chart is now accepted as the standard in preparing color descriptions by many foreign houses as well as in this country.

PRICE: $1.00, Postpaid.

AMERICAN FLORIST. CO., 324 Dearborn St. CHICAGO.

Vaughan's Lilium Harrisii

Careful Selection of Both Plants and Bulbs.

WITH a good crop of **"Harrisii"** in sight, it would be well for growers to remember that Easter comes on March 27th in 1910, which makes it necessary to force a lily that you can depend on getting in on time. Remember, while we do not claim that our **"Harrisii"** are absolutely free from disease, or that every bulb will produce a perfect plant, we do claim that our grower's efforts in the way of spraying and rogueing are producing results, our stock now being freer from disease than ever before and of genuine **"Harrisii"** type — in fact, the best general crop grown on the Island of Bermuda.

Vaughan's Seed Store,

CHICAGO: 84-86 Randolph St. NEW YORK: 25 Barclay St.

noted the country over for the excellent service they provide. Meals a la carte. The round trip fare from Chicago to Niagara Falls by the Wabash Railroad is $19.50, good for 30 days.

Tickets from Chicago to Niagara Falls and return are good between Detroit and Buffalo by boat in either direction and parties who may desire a lake trip can take advantage of this arrangement. Tickets can be purchased at Wabash Ticket Office, 109 Adams street, or at depot, Dearborn Station. Telephone Harrison 4500.

Catalogues Received.

The Yokohama Nursery Co., Ltd., bulbs, plants and seeds; W. C. Kennedy, St. Joseph, Mo., seeds; Manitowoc Seed Co., Manitowoc, Wis., seeds; Peter Henderson & Co., New York, farm seeds; Winterson's Seed Store, Chicago, seeds, bulbs, shrubs, etc.; Noah's Ark, Boulder, Colo., seeds; W. B. Longstreth, Gratiot, O., seeds; W. H. Barrett, Adrian, Mich., tomato seed; Archias' Seed Store, Sedalia, Mo., seeds; Griswold Seed Co., Lincoln, Neb., seeds; Guthrie-Lorenz Co., Des Moines, Ia.; seeds; I. N. Kramer & Son, Cedar Rapids, Ia., seeds, plants, etc.; The Collegeville Greenhouses, Collegeville, Pa., seeds and plants; Wm. Toole & Sons, Baraboo, Wis., pansy seed and plants; California Nursery Co., Niles, Calif., nursery stock; Ellwanger & Barry, Rochester, N. Y., trees, shrubs, hardy plants, etc.; American Nursery Co., New York, nursery stock; Bobbink & Atkins, Rutherford, N. J., nursery stock; Shatemuc Nurseries, Barrytown, N. Y., nursery stock; herbaceous plants, etc.; Lager & Hurrell Summit, N. J., orchids; W. A. Manda, Inc., nursery stock, orchids, herbaceous plants, etc.; The Palisades Nurseries, Sparkill, N. Y., vines, shrubs, dahlias, bulbs, etc.; Chicago Carnation Co., Joliet, Ill., carnations; R. Vincent, Jr. & Sons Co., vegetable plants, etc.; Jackson & Perkins Co., Newark, N. Y., roses and nursery stock; J. S. Wilson Floral Co., DesMoines, Ia., plants and cut flowers; Morrisville Nurseries, Morrisville, Pa., nursery stock; R. V. Crine, Morganville, N. J., seeds; Forest City Nurseries, Portland, Me., nursery stock; B. Hammond Tracy, Wenham, Mass., gladioli; W. W. Rawson & Co., Boston, Mass., dahlias; M. Crawford Co., Cuyahoga Falls, O., strawberry plants; Valdesian Nurseries, Bostic, N. C.,

NEW CANNA

WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

——Send for List.——

The Conard & Jones Co.

WEST GROVE, PA.

nursery stock; New Haven Nurseries, New Haven, Mo., fruit trees; Chas. W. Schneider, Holm & Olson, Inc., house and bedding plants, bulbs, etc.; Peacock Dahlia Farms, Williamstown Junction, N. J., dahlias; The Conard & Jones Co., West Grove, Pa., roses; The McFarland Publicity Service, Harrisburg, Pa., trade advertising; Illinois Heater Mfg. Co., Chicago, flower boxes; The Crestline Mfg. Co., Crestline, O., pumps, hose, etc.

Imports.

During the week ending May 15 imports were received at New York as follows:

Maltus & Ware, 53 cases plants.

H. Frank Darrow, 33 cases plants, 46 tubs laurel trees, 8 bags agricultural seed.

McHutchison & Co., 91 pkgs. plants.

J. Roehrs Co., 43 pkgs. plants, 148 tubs laurel trees.

Aug. Rolker & Sons, 27 pkgs. plants.

J. M. Thorburn & Co., 2 bags grass seed.

To others, 125 cases plants, 154 tubs laurel trees, 104 bags, 50 bbls. seed.

During the week ending May 22 imports were received at New York as follows:

Maltus & Ware, 205 cases plants.

Wadley & Smythe, 50 cases plants, 284 tubs trees.

H. Frank Darrow, 18 cases plants.

Vaughan's Seed Store, 15 cases plants.

Julius Roehrs Co., 11 cases plants.

McHutchison & Co., 4 cases plants.

Carrillo & Baldwin, 4 cases plants.

F. B. Vandegrift & Co., one case, 19 pkgs. plants.

Fischer's Grand Freesia

PURITY

The Unequalled, White Decorative Freesia :: ::

Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed, avoiding all danger of mixture, as **Purity** does not come true from seed. Dealers getting their stock from me will always be sure of getting the purest stock.

For sale by the Leading Seedsmen :: :: :: ::

RUDOLPH FISCHER,

San Gabriel, R. F. D., Calif.

Dearborn Engraving Co.

Designers, Printers & Engravers

1322 Wabash Ave., Chicago.

...Engravers for this Paper.

DAHLIAS.

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this winter or early spring.

DAVID HERBERT & SON,

Successors to L. K. Peacock, Inc. ATCO, N.J.

P. Henderson & Co., 80 bbls. grass seed.

To others, 96 cases plants, 188 tubs laurel trees, 6 cases orchids, 540 bags, 150 pkgs. seed, 1 case bulbs.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

BEANS sown early and well cultivated escape many of the troublesome beetles and other insects infesting weak and late sown plants.

LOOK out for the first appearance of the tomato worm (Phlegethontius quinquemaculata) on tomatoes, potatoes and other plants of the solanum order. Often when seen early diligent hand-picking will check the attacks of these insects in the early stages, preventing much trouble and mischief later.

GEO. J. REICHERT, late of Buffalo, N. Y., is now located on a 20-acre farm at Bowmansville, 12 miles from that city, and intends to grow garden truck, as his farm is considered one of the best in this vicinity. He will shortly erect greenhouses for winter vegetables and flowers and intends wholesaling cabbage, cauliflower, celery and other seedlings.

INSECTICIDES have to be very strong to kill mature insects, and the plants are apt to be injured thereby. But if the insects are got after when they are quite young a much milder poison does the business for them and is perfectly harmless to the plants. This is especially applicable to insects that later in the season develop a tough hide like the cabbage bug. Leaving old cabbage plants standing on the ground after they have ceased to be of value is likely to breed these pests.

Biting and Sucking Insects.

Two groups may be made of injurious insects as far as their eating habits are concerned, that is, they are either biting or sucking. In the latter group are included those insects which injure the plants by inserting their tube-like mouth parts through the bark of the plant into the softer tissue and sucking up the sap of the plant, according to Bulletin 68 of the New Mexico College of Agriculture. All of the aphides, or plant lice, San José scale, squash bug and chinch bug are good representatives of the sucking insects. The biting insects are those that have well developed mouth parts and which chew and swallow some part of the plant or fruit as their food. The caterpillars commonly known as worms, grasshoppers and beetles are good examples of the biting insects.

Poisonous insecticides, such as Paris green, arsenate of lead, and other arsenical mixtures which can be applied to the part of the plant that is eaten by the insect are the surest remedies. These remedies cannot be used effectively on sucking insects because they do not chew and swallow their food. A mixture that kills by contact with the insect body, such as the kerosene emulsion, soap solutions and lime sulphur wash should be used for the sucking insects. Before applying any of the insecticides a thorough knowledge of the eating habits of the insect injuring the plant should be had. If it is found to be a biting insect, use some one or more of the arsenical mixtures. If, on the other hand, it is a sucking insect then use the emulsions or washes.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

South Manchester, Conn.

The Cheney Farm has a 4-acre strawberry patch that looks as though the ground were covered with snow. Never did we notice such a heavy set of bloom. Temperatures are low, down to 42° May 23, and the sun has hardly been seen for a week. Apples are blooming very heavily this year all through the New England states. A house of Comet tomatoes here is attracting growers in this vicinity. The stems are 1-inch caliper, fruiting heavily.

The partnership of the North & Nettleton Greenhouses has been dissolved, Mr. Nettleton succeeding. Mr. North has settled in Florida.

John Cheney, of Manchester Green, is offering a fine lot of bedding plants, but the cold weather is checking sales.

Thos. L. Brown is getting around again after an attack of grip. B.

Pittsfield, Mass.

T. L. Lowden & Sons have started their two-horse team (double-decker) of flower and vegetable plants on the road. They have also appeared on the street with a new wholesale vegetable wagon.

The plant season has opened up well in the Berkshires. Apple and pear trees are in bloom and form quite a riot of color. The weather is grand.

Nelson Volen has resumed his duties with Foster I. Drake, having been laid up for a few weeks with an injury to his back.

Wm. and Chas. Luce are bringing in rhubarb and bunch onions, Silas Briggs rhubarb and asparagus.

Strong Bros. are on the road with tomato plants in boxes containing 12 plants each. L.

Johnstown, Pa.

The Riverside Truck Farm has sold over 5,000 pounds of lettuce this season out of a house 32x100 feet. H. H. Mishler, the proprietor, will erect two more houses this summer, one lettuce house 40x125, and one plant house 12x60 feet. These are being purchased from the J. C. Moninger Co., Chicago. His intentions are to raise early plants and fancy lettuce.

D. Mishler, Jr., is now engaged in the truck business. He is going to add new houses to his present plant, one 32x100 feet for lettuce, one 12x100 feet for plants. M.

Prices of Indoor Fruits and Vegetables.

The prices of indoor vegetables at leading points May 22 were as follows: New York, cucumbers, 50 cents to $1 per dozen; mushrooms, 75 cents to $1 per pound; mint, 35 to 75 cents per dozen bunches; radishes, $1.75 to $2 per 100 bunches; tomatoes, 25 to 30 cents per pound; grapes, $1.15 to $1.50 per pound; cantaloupes, $1.50 each. Chicago, cucumbers, $1 to $2 per dozen; head lettuce, $3 to $6 per barrel; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, $1 to $2 per pound; peaches, $15 per dozen; English melons, $15 per dozen; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City, cucumbers, 65 cents to $1 per dozen. Cincinnati, cucumbers, 50 to 60 cents per dozen; mushrooms, 40 cents per pound. Boston, cucumbers, $3.50 to $4 per box.

THIS SEASON'S FRESH

MUSHROOM SPAWN

which is now being supplied by

JOHNSON'S, LIMITED,

(The actual makers.)

IS IN SPLENDID CONDITION.

All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.

Correspondence invited for **OVER-SEA ORDERS.**

Special quotations for large quantities. Prices and particulars on application to

JOHNSON'S, Limited,

44 Bedford Row, LONDON, ENGLAND.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10 000 and over	85
Beets, Crosby, Egyptian and Eclipse	1 25
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 25
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	3 00
Chinese Giant and Cayenne	50c per 100

— Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

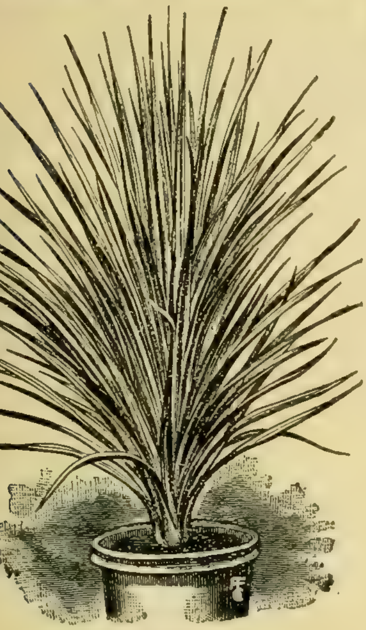
Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

Fine Plants for Window Boxes



DRACENAS,

4-inch......12c. 5-inch......20c each.

	Per 100	1000
Geraniums, standard varieties,		
2¼-inch	$3 00	$25 00
3 inch	6 00	57 50
Lobelia, compacta and speciosa		
2¼-inch	2 00	
Petunias, 2¼-inch	2 50	
3-inch	5 00	
Vinca Variegated, 2¼-inch	2 50	

Asparagus Plumosus, 3-in. 6c; 4-in. 10c.
Asparagus Sprengeri, 2¼-in. 2½c; 3-in. 5c; 4-in. 10c

MOSBAEK GREENHOUSE CO.
ONARGA ILL.

ARAUCARIAS

EXCELSA

Fine Stock

5-in, 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls., 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in, high, each, **$1.25** doz. **$14.00.**

VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., **CHICAGO.**

25 Barclay St., NEW YORK.

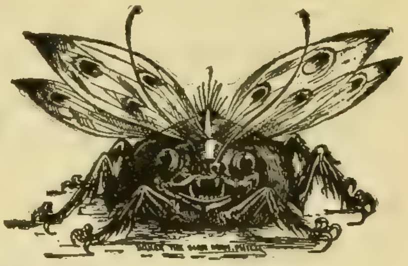
BAY CITY, MICH.—The Schweirs & Potratz Floral Co. has started in the retail business at South Euclid avenue.

HANDSBORO, MISS.—A large nursery, primarily for orange tree growing, will be started here by D. P. Magruder of Gulfport and another business man.

PAWNEE CITY, NEB.—J. E. Atkinson, proprietor of the Northedge Nurseries, reports business good. He expects to rebuild the greenhouse plant completely and add two new greenhouses each 16x60 feet as well as a new office, boiler shed and workroom.

Everybody Talks About It!

LIKE THE BEE



A Prosperous Florist Is Never Idle.

☞ We have plants to sell. So have 100 or 1000 others. ☞ But we have quality and prices that few can offer.

☞ An immense stock of **Bedding Plants** is now ready. Every hole and corner full for immediate shipment.

Per 100

Geraniums, 4-in., S. A. Nutt, dark crimson; John Doyle, Mme. Thibaut, pink: Jean Viaud, double pink and single white; Bishop Wood, red; Poitevine and Ivy-leaved; and other varieties $7 00
Cannas, King Humbert, 4 in.... ....10 00
" Bismarck, Barrett, Poitevine, Black Beauty, Henderson, Italia, 4-in...... 7 00
Dracena Indivisa, broad-leaved, imported stock, big plants...........50c to 75c each
Scarlet Sage (or Salvia), the true Clara Bedman or Bonfire. Ours is the true medium tall genuine variety; deep red, brilliant flowers; a constant bloomer, so much admired in the capital cities of Europe and America. The seeds of this famous variety were gathered by myself in Zurich Switzerland, the home of Salvia. Price 4-in. pots. 7 00
Ageratum, best blue, dwarf varieties, 4-in., in bloom 7 00
3-in. pots............................ 3 00
Heliotrope, best blue, dwarf varieties, 4-in. in bloom 7 00
Begonia Vernon, newest strain, the so well known dark variety, of our own importation. Seeds selected from the best specimen plants by myself during my trip in Switzerland and France. On that account these varieties thrive well in the hottest climate, exposed direct to the heat of the sun in July and August; a constant bloomer; therefore it is very valuable as a bedder, and in many instances takes the place of Geraniums, etc. 4-in. pots................ 8 00
Begonia Flambeau, or Octavie, sells on sight, valuable for window boxes and vases; their fine waxy foliage gives them a beautiful appearance. 5¼-in. pots ..$2 00 per doz. 4-in. pots .... 1 00 per doz.
Fuchsias, in bloom, 4 in................... 7 00
Lantanas, assorted, 4-in..................... 7 00
Nasturtiums, assorted, 4 in.................. 6 00
Stock, German Ten Week 7 00
Vinca Variegata (Periwinkle), 4 in.........12 00
Cobea Scandens, fine blue, bell-shaped flowers; climbing vine, grows 30 to 50 feet in one summer; blooms far into November; nicely staked up, 4-in. pots 8 00

SMALL PLANTS.

Petunias, California Giant, 3-in. pots....... 4 00
" Inimitable (dwarf), 2½-in......... 3 00
Verbenas, assorted, in bud, 2½-in.......... 3 00
Coleus, Verschaffeltii, Golden Bedder and Queen Victoria, 2½-in. pots................ 3 00
Coleus, fancy leaved, 2½-in.................. 4 00
Tagetes, or French Marigold 3-in.......... 3 00
Centaurea Gymnocarpa or Dusty Miller 2½-in......................... 3 00
Parlor or **German Ivy,** 2½ in 3 00
Salpiglossis, 2½-in. to 3-in 3 00
Lobelia Compacta, Trailing and Crystal Palace Blue 3 00
Kenilworth Ivy, 2½-in...................... 3 00
Tradescantia, two best colors, 2½-in....... 3 00
Thunbergia or Black Eyed Susan, 2½-in.... 3 00
Sweet Alyssum, Little Gem, 2½-in........ 3 00
Asparagus Plumosus, 2 in..$25 00 per 1000 3 00
" " 3-in 4 00
Cuphea or Cigar Plant, 2½-in................ 3 00

Per 100

Vinca Variegata (Periwinkle), 3 in..$4 00 to 5 00
Cosmos, 4 best early varieties, made up 3 plants in a pot.............................$4 00
Summer Chrysanthemums, 3 to 4-in. pots 5 00
Asters, Victoria, German, 5 best sorts...... 3 00
Honeysuckle, large, 6-in 50c
Rose Bushes from cold frames (not in bloom), Crimson Rambler, D. Perkins, Lady Gay, 5½ to 6-in. pots.......25c to 30c each
Ampelopsis Veitchi, 4-in. pots (small size), 10c
Dianthus Chinensis, pink, 2½-in..3c each

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants, **Araucaria Robusta Compacta, Glauca** and **Excelsa.** ☞ Florists, bear in mind there is no garden, lawn or porch, etc., in the summer that is complete without the Araucarias; therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria. Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high, same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old, 5-6-7 tiers, 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation, 40c-50c. Can meet all applications.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c to 30c.

Kentia Belmoreana and **Forsteriana,** big plants, only $1.25, $1.50, $2.00 each.

Just arrived, per steamer Manitou, from Australia, a big consignment of **Palms** and **Araucarias,**

O, what a sight! **Moonvine, Moonvine, Moonvine,** the genuine, pure white **Moonvine.** Economy. ☞ Look! Life! Life! Life! What is a life? Your fence is a life: your porch is a life, a mass of flowers; your house is a life; your barn is a life; your garden wall is a life! O, life and joy everywhere! What smells so fine? Flowers and greens everywhere; every spot of our home is a life!

☞ Meine hauschen steht in grunen. ☜

☞ **I am the Moonvine King of America.** ☜

Grower and shipper of the so well known Ipomœa Noctiflora. For the past twenty years we controlled the American market of this beautiful climbing vine, which grows 30-40-50 feet high covering every spot of your fence home, barn, etc., with fragrant, beautiful, pure white waxy flowers, as big as a saucer. 25 000 plants are shipped every spring into every part of America, 4-in. pots, staked up nicely, $12 00 per 100; 3-in. pots, $8.00 per 100; 2½-in. pots, $5.00 per 100.

10 at 100 rates. Please state if in or out of pots. All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., **Philadelphia, Pa.**

Importer, Wholesale Grower and Shipper of Pot Plants.

Mention the American Florist when writing

Miscellaneous Spring Bedding Stock.

Cannas, Moss-rooted, 6 to 12-in-high. Allemania, Kate Gray, Chas, Henderson, Burbank, Washington..... .... $5 00 per 100
Geraniums, strong, 4-in.......... 7 00 per 100
Vinca Variegated, 3 to 4-in......$5 00-10 00 per 100
Alyssum Little Gem, 2½ in.... 2 50 per 100
Ageratum, Dwarf Blue, 2½ to 3 2 50- 3 00 per 100
Cobeas, 3-in..................... 5 00 per 100
Coleus, 2¼ to 3-in.............. 2 00- 3 00 per 100
Dracæna Ind., 3-in .... 5 00 per 100
Dusty Miller, 2¼-in............ 2 00 per 100
Verbenas 2 to 2½-in .... 2 00-3 00 per 100
Salvia, 3-var., 2½ to 3-in........ 2 50-3 00 per 100

WEST END GREENHOUSES, Lincoln, Ill.

Geraniums

Per 100

4-inch stock, 15,000 plants, cool grown, 6 standard varieties, without pots............$6.00
Mme. Salleroi, 2-in., $1.50 per 100; $12.50 per 1000
" 2½-in. 2.00 per 100; 18 00 per 1000
Rose Geraniums, fine 4-in. ....$7.00 per 100

BEDDING AND OTHER STOCK.

English Ivy, 4½-in., 3 to 4 ft. long, fine stock ....15c each
Swainsona, extra large flower, pure white, 2½-in.... .... 2.00 per 100
Stevia, 2 in. .... 2.00 per 100

N. C. MOORE & CO., Morton Grove, Ill.

Mention the American Florist when writing

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June 9-11, 1909

NORTH WALES, PA.—The nursery of Thaddeus N. Yates & Co. here has been sold to Wm. Frost of Holmesburg.

LOVELAND, COLO.—The Loveland Nursery Co. has been incorporated with capital stock $5,000 by N. A. Cramer, C. H. Egge and H. A. Gooch.

THE American Peony Society's annual meeting and exhibition will be held at Cottage Gardens, Queens, L. I., N. Y., June 8-9. Queens is about 30 minutes' ride from New York city.

MARSHALLTOWN, IA.—In the opinion of those qualified to speak there has been no damage to peach trees occasioned by the recent freeze, the flowers not being sufficiently forward to be injured.

OSKALOOSA, IA.—Abner Branson, who has been in the nursery business since 1867, has purchased 15 acres of the old Gruwell farm lying east of Forrest cemetery, where he will establish the Mahaska Nursery and Fruit Farm.

THIS is the hatching season of the tussock moth, and the small caterpillars should be looked for any time this month. Jarring small trees to shake them off and spraying with dilute arsenical preparations are recommended.

BOSTIC, N. C.—The Valdesian Nurseries report all nursery stock looking well. Orders for next fall are already coming in and the indications are that the demand will be greater than ever before. Two-year stock is putting on fine growth and the stock of all varieties is very large and in fine condition, having been greatly helped by the recent rains.

American Association of Nurserymen.

The thirty-fourth annual convention of the American Association of Nurserymen, which, as already noted, is to be held in Rochester, N. Y., June 9-11, promises to be one of the largest and most interesting conventions ever held in Rochester. This city being the nursery center of the world, nurserymen all over the United States are looking forward with interest to the coming meeting. Plans for the entertainment of the numerous visitors are being made by the nurserymen of Rochester and western New York. It is expected that 500 will be present.

The programme for this year's convention will be one of exceptional merit, as the programme committee, of which J. M. Pitkin of Newark is chairman, has taken great care in the selection of those who are to speak. Among those who have sent in assurances that they will speak are Professor L. H. Bailey of Cornell University, Commissioner of Agriculture R. A. Pearson of Albany and Professor W. H. Jordan of the Geneva Experiment Station.

Headquarters of the convention will be at Hotel Seneca, and the business of the convention will be transacted at the morning sessions. Addresses will also be given at these sessions. The afternoons and evenings will be devoted to sightseeing, recreation and enjoyment. For the entertainment of the visitors on Wednesday afternoon it is planned to take them on a tally-ho ride through the city and parks, including the far famed Highland park. On Thursday afternoon the women who attend the convention will be entertained at the Genesee Valley club at a luncheon. In the evening they will

Chas. J. Brown, Rochester, N. Y.
President American Association of Nurserymen.

be entertained at one of the local theaters, while the men will be guests at a smoker, which promises to be one of the features of the entertainment end of the convention. There will be a short business session Friday morning, after which the delegates will visit nurseries in and about Rochester.

The president of the association is Charles J. Brown of Brown Bros.' Nursery Co. George C. Seager is secretary, and C. L. Yates is treasurer, all of Rochester. The vice-president from New York is William Pitkin, a member of the Chase Bros. Nursery Co. of Rochester. Members of the trade have long been holding conventions, as is indicated by the number "thirty-fourth." George C. Seager has been secretary of the association for 18 years and has had a hand in the arrangement of all conventions. Assisted by and working with able committees he will be enabled to give the nurserymen the time of their lives.

Cup Awarded The Jackson & Perkins Co., Newark, N. Y., by the National Rose Society of England for the Best Climbing Rose, Dorothy Perkins.

The Nickerson Cup.

AMERICAN SUCCESS IN ENGLAND.

The accompanying illustration shows the Nickerson cup awarded to Jackson & Perkins Co., Newark, N. Y., by the National Rose Society of England for Dorothy Perkins rose which this firm originated and introduced, as "the best pink climber, blooming in clusters." Last year 12 of these cups were distributed under the auspices of the National Rose Society as the result of a contest for the best roses in different classes. There were two varieties only, Mme. Alfred Carriere and Frau Karl Druschki, which received more votes in their respective classes than Dorothy Perkins. Crimson Rambler received less than one-half as many. None of the other Wichuraiana or Crimson Rambler seedlings came within hailing distance of one of the cups, and Dorothy Perkins is the only rose of American origin which received this distinction at the hands of the National Rose Society of England.

Notes From the Arnold Arboretum.

The swelling buds of Cornus Florida, the various species of pyrus and other early-blooming trees and shrubs at last announce the arrival of spring, and the prunuses, loaded with bloom, add emphasis. The weeping prunuses near the main entrance are a beautiful sight and the later varieties in the same group will be in full bloom when these notes are read. The flowering crabs and pears on the opposite side of the drive need only a few days of real May weather to become a mass of white and pink, and a week or ten days will bring the lilacs and the white and red flowered Cornus Florida.

A new spirea, supposed to be a chance seedling of S. arguta, is attracting flattering attention from all who visit the nursery. The plant, which was sent in by Prof. Waugh, blooms at the same time as S. arguta, but is more graceful in form and more free in bloom. It would seem much superior to its supposed parent and should easily displace it on the nursery lists.

Perhaps the largest lot of Aesculus Chinensis in America is to be seen in one corner of the cold frames. The trees are only infants, but old enough to show their beautiful foliage. We were also shown another variety of the Chinese chestnut that seems even handsomer in foliage and less susceptible to late frosts. The large planting of rhododendrons and kalmias at Hemlock gorge came through the winter in fine form and are well set with buds. It is intended, we believe, to plant the hillside opposite with the seedling rhododendrons from Corea and China. There are many thousands of them, and if only a percentage prove hardy they will in a few years make a grand display.

Everybody's friend, Jackson Dawson, has been afflicted by his old enemy,

bronchitis, for several weeks, but is up and around as usual.

A visitor connected with the trade could not well leave the grounds without another look at the seedlings of the Wilson collection from western China. Since our last visit most of the young plants in frames have been transferred to the nursery rows, but the greenhouse is still full to overflowing with the youngsters in seed pans. We notice two new walnuts among the arrivals. The nuts of both are said to be edible, the trees are supposed to be hardy here, and the foliage of one is especially handsome. We failed to itemize, in our last notes, the large number of clematis, pinus, thuyas, ligustrums and philadelphus contained in this interesting lot of seedlings. A lot of cuttings sent over by the same collector are striking nicely and another lot is due to arrive soon.

Mr. Wilson, after seven years in China, is about to return to America. An interesting tale is told of one of the reasons of the success of his work in the wild regions of the Chinese and Thibetan frontier. The natives believe he is mad. They think any man who spends years in the collection of seeds of their common trees and shrubs must be crazy, and as their traditions and customs command them to respect one so afflicted, he has been enabled to do about as he pleased without interference. Looking at the results of his years of work, there would seem to be "method in his madness." Mr. Purdon, also of the arboretum, has arrived at Pekin, where he is asking for permission to make his trip through northern China. If the consent of the Chinese government can be obtained, it will open to him a vast area of entirely unexplored country.

Nurserymen's Convention—Rochester, N. Y., June 9-11, 1909. The Niagara Falls Route.

Nurserymen on their way to this meeting are requested to use the "Wabash Niagara Falls Short Line" which provides excellent accommodations from Chicago in connection with the West Shore. Leaving Chicago at 12:06 noon in the famous Continental Limited, you arrive at Rochester the following morning at 7:05. Through sleeping and dining car service. If you prefer the 3:00 p. m. train you reach Rochester the following morning at 10:30. The return service is fully as good. Stopovers are permitted at Detroit, Niagara Falls and Buffalo, not to exceed ten days at each point.

Delegates can purchase tickets of the Wabash Railroad for $19.50 to Buffalo and the fare from Buffalo to Rochester and return is $2.76, making a rate of $22.26 for the round trip from Chicago. Tickets from Chicago to Buffalo and return are good between Detroit and Buffalo by boat in either direction and parties who may desire a lake trip can take advantage of this arrangement. Tickets can be procured at Wabash Ticket Office, 109 Adams street, or at depot, Dearborn Station. Telephone Harrison 4500.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

We Offer the Following Plants for Delivery from now until Decoration Day in prime condition

PACKING FREE OF CHARGE

Roses, Lady Gay, Hiawatha, Newport Fairy, in 6½-in. pots $9 00 and $12.00 per doz.
Crimson Ramblers, in bloom 6½ and 7-in. pots, $6.00, $9 00 and $12.00 per doz.
Dracena Fragrans, 5½-in. pots, $6.00 per doz., 6½-in. pots, $9 00 per doz.
Aspidistras, Variegated, In 6½, 7 and 8-in pots, $18.00, $24.00 and $36 00 per doz.
Raphis Humilis, 3 ft tall, at 50c a shoot. Plants from $1.50 to $5 00 each.
Raphis Flabelliformis, 4 to 5-ft. tall 50c shoot. Plants from $3 50 to $5 00 each.
Pandanus Utilis, 6½ in. pots, $12 00 $15.00 per doz.
Pandanus Veitchii. 4 and 4½ in. pots, $35 00 per 100.
Pandanus Veitchii, in 5, 5½ and 6-in. pots, $6.00 $9 00 and $12 00 per doz.
Cibotium Schiedei, 6½-in. pots, at $2.00 each.
Phoenix Canariensis, 7 and 8-in. tubs, $3.00 a pair. 9-in. pots, $5.00 a pair; 9-in. pots, $6 00 and $7.00 a pair; 10-in. pots, $9.00 a pair; 10-in tubs, $10.00 a pair
Boxwood Bushes, 6½ and 7-in. pots, $4.00, $5 00 and $6 00 per doz.
Boxwood Bushes, 8 and 9-in. pots, $9.00 and $12.00 per doz.
Boxwood Pyramids, in 12-in. pots and tubs, $3.00 to $4.00 per pair.
Boxwood Pyramids, in 15-in. tubs, $7.00 to $10.00 per pair.
Dracena Indivisa, 2½-in. pots, $5.00 per 100.
Dracena Indivisa, 5½-in. pots $25.00 per 100.
Orange Otaheite, plants, 2½-in. pots, $8.00 per 100.
Japanese Dwarf Pine Trees, in fancy pots, $3.00, $4.00, $6 00 and $9.00 per doz.
Privet, Golden Leaf California, 6½-in. and 7-in. pots round shaped plants, $6.00 per doz.
Lily of the Valley, Cut, extra selected blooms $5 00 per 100; can be shipped with roots if so desired.
Araucarias, 6, 6½ and 7-in. pots, $1.50, $2.00 and $2.50 each.

Packing free of charge. Cash or satisfactory references must accompany all orders

ANTON SCHULTHEIS
316 19th Street, - COLLEGE POINT, L. I., N. Y.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2½ ft	$2 00	$3 75	3½ ft	$3 00	$ 5 50
3 ft	2 50	4 50	4 ft	4 00	7 00
			5 ft	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$8 00	18-22 in.	30-32 in	$5 50	$10 00
				22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c. per doz., $4 00
18 to 24 in high.....Each, 60c. per doz., $6 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,
84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
Book for Florists, Spring Edition, Now Ready.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,
AND OTHER DECORATIVE MATERIAL
Evergreens In all Choicest Varieties. **Ficus Elastica** 2½-inch pots, $15.00 per 100.
CLEMATIS, and all other Vines and Climbers.
Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.
We shall be pleased to give special prices on lists.
ASK FOR WHOLESALE CATALOGUE.
BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

ARBOR VITÆ
(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

LARGE TREES.
OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

Send Advts. Early for Best Servi ce.

Rose Plants

Fine Strong, Healthy.

	2¼-in. Pots 100	2¼-in. Pots 1000	3-in. Pots 100	3-in. Pots 1000
American Beauty	$5.50	$50.00	$7.00	$65.00
Richmond	3.00	25.00	4.00	35.00
Chatenay	3.00	25.00	4.00	35.00
Ivory	3.00	25.00	4.00	35.00
Bride and Maid	3.50	30.00	4.50	40.00
Asparagus Sprengeri, 4-in. pots			$8.00 per 100	
Asparagus Plumosus, 3-in. pots			5.00 per 100	
Smilax, 3-in. pots			4.00 per 100	

Orders should be placed at once. Stock can be shipped now or when you are ready to plant. Extra fine. Samples cheerfully furnished.

UNITED STATES CUT FLOWER CO., Elmira, N. Y.

Geraniums, double Grant, Bruant, Viaud, Nutt, Perkins, Rose, etc., 2-in, 2c.
Ageratum, 2-in. 2c.
Stevia, Green or Variegata, **Vinca Var.,** strong, 2-in. 2c.
Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem), 2-in,, 2c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white, and yellow; 2-in. 2c. **Swainsona,** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Vinca Var.,** 90c. $8 00 per 1000: **Alternanthera,** 3 kinds 50c: **Ageratum, Coleus,** 60c., $5 00 per 1000: **Artillery Plant, Stevia,** Green and Variegated, 75c. **Asparagus Sprengeri,** 2-in. 2c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Geraniums..

Best Varieties,

2½-in , ready for 4-in.. $2 00 per 100; 200 for $5.00 Ivy Geraniums and Salleroi, 2½-in.. same price.

Cabbage Plants, all kinds.....$1.00 per 1000 $8.00 for 10 000.
Tomatoes, best varieties.....$1.50 per 1000
Cauliflower, Snowball..... 2.50 per 1000
Egg Plants and **Peppers** ..... 2.50 per 1000

J. C. SCHMIDT, Bristol, Pa.

Ferns for Dishes.

Assorted Varieties.

From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN

2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

BENSENVILLE, ILL.—W. F. Dunteman is building two new houses, 27x200 feet, for violets. He is planting an acre of asters, is cutting some 2,000 carnations and 15-20 dozen snapdragons each day.

NEW HARMONY, IND.—Wm. Hartman says trade has been good here ever since the new year and April and the early part of May were especially good. Outdoor work has been delayed on account of wet weather.

LAFAYETTE, IND.—The Indiana Experiment Station proposes to erect this summer a leanto conservatory 15x48 feet and an even span connecting house of 11x20 feet for the botanical department. The main greenhouses will not be built for some time to come. A new station building, costing $100,000, has recently been occupied and the greenhouses are to be attached to the rear of the building and erected as soon as funds are available.

SPRING STOCK IN QUANTITIES

Adiantum Cuneatum, strong, 4-in. pot plants, ready for shift, $8.00 per 100.
Chrysanthemums, leading varieties, 2-in. $2.50 per 100: $20.00 per 1000.
Maranta Massangeana, fine for ferneries. $6.00 per 100.
Ficus Elastica, 5-in. pots plants, 18 to 24-in. high. $40 00 per 100.
Ivy Geraniums, strong, 2½-in. pot plants. Souv. de Charles Turner and Jeanne d' Arc, $3.00 per 100.
Fuchsias, 10 varieties, 2½-in. $2.50 per 100; $20.00 per 1000.
Salvias, Zurich, Fireball, Maroon Prince, Clara Bedman, Splendens, 2-in. $3 00 per 100; $25 00 per 1000; 3-in. $5.00 per 100.
Coleus, Verschaffeltii and Golden Crown, 2-in. $2.50 per 100; $20.00 per 1000.
Lantanas, strong, 2½-in, pot plants, $3.00 per 100.
Begonia, Erfordii, Vulcan, Vernon, fine for pots or bedding. $2.50 per 100; $20 00 per 1000.
Dahlias, well established pot plants, all leading varieties, $3.50 per 100.
Begonia, Rex, 2½-in. pot, at $4.00 per 100.

The Storrs & Harrison Co., PAINESVILLE, OHIO.

OUR NEW CARNATION **SHASTA**

Is always pure white, is always in bloom and is always high grade.
$12.00 per 100; $100.00 per 1000. Send orders **now** to
PATTEN & CO., Tewksbury, Mass. **BAUR & SMITH,** Indianapolis, Ind.

MARY TOLMAN

A new light salmon pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. **HUNT BROS., Park Ridge, Ill.**

SANGAMO

New, brilliant, glistening pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

A New Seedling Carnation :: :: :: **Conquest**

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

White Killarney

It is needless to say much about the value of this

NEW WHITE ROSE

its value is so well established. In support of this statement, we might say that we intend to plant not less than 20,000 for our own growing. We have a splendid stock of both grafted and own root plants which we can deliver immediately on receipt of order—gilt-edged planting stock. We guarantee perfect satisfaction.

Strong plants, 2¼-in. pots, own root.....$30 00 per 100; 250 for $70 00; $250 00 per 1000
Grafted plants..... 35 00 per 100; 250 for 82 50; 300 00 per 1000

HYDRANGEAS In bud and bloom

We offer fine plants well budded, just beginning to show color; in splendid shape for immediate use.
6-in. pots, 4 to 5 blooms each.....$9 00 per doz.

LARGE PLANTS IN TUBS

We have a large stock of splendid plants, grown in tubs and half barrels, **for July aud August flowering.**
Fine plants in tubs.....$2 00 each Extra large plants in half barrels.....$5 00 each

A Few Seasonable Specialties

Boxwood, Pyramidal, fine plants, 3 ft. high.....$2 00 each
4 ft. high.....$3 00 each 4½ ft. high..... 4 00 each
Rubber Plants (Ficus Elastica), very large, bushy plants, in tubs, 4 ft. high, fine for summer decoration..$3 50 each
6-in. pots, 3½ ft. high.....$ 9 00 per doz.
Pandanus Veitchi, fine plants, 6-in. pots..... 12 00 per doz.
Phoenix Roebeleni, extra fine plants, 5-in. pots ..... 18 00 per doz.
Crotons, strong plants, 3-in. pots ..... 3 00 per doz.
5-in.pots.....$6 00 per doz. 6-in. pots..... 9 00 per doz.

Cannas., Beaute de Poitevine, Buttercup, Souv. d' Antoine Crozy, Pierson's Premier, Mlle. Berat, L. Patry, Florence Vaughan, etc. Per 100
Strong, started plants, 3½-in. pots.....$6 00
Dormant roots.....$25 00 per 1000 3 00
Caladium Esculentum, started plants..... 6 00
Geraniums, Double Gen. Grant, extra fine plants, 3½-in. pots..... 8 00
Geraniums, assorted, 3½-in. pots..... 8 00
Vinca Variegata, 4-in. pots, extra heavy..... 12 00
Nasturtiums, 3-in. pots 4 00

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

"BUSINESS NECESSITY"

Edition of 1909, Postpaid, $3.00.

THIS is the only term which describes the American Florist Company's Directory, just out. This book, 548 pages of facts tersely told, is issued annually and is an aid to business and money making which no wholesaler or traveling salesman can afford to be without. It contains the name of every Florist, Nurserymen and Seedsmen, arranged both by states and towns and alphabetically; and lists of experiment Station Horticulturists, Landscape Architects, Horticultural Supply Concerns and Leading Foreign Firms. It will save many times its cost by enabling you to cover America with your catalogue and at the same time waste no printed matter or postage on dead names.

AMERICAN FLORIST COMPANY,
324 Dearborn Street CHICAGO.

A Ready Reference Manual.

Surplus Stock

From 2½-inch pots.
Clean, thrifty stock.

	Per 100	1000
ROSES, mostly summer propagated: Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay, Minnehaha, Philadelphia, White and Yellow Rambler	$3 00	$27 50
Anny Muller	3 50	30 00
Baby Rambler	2 75	25 00
White Baby Rambler	3 00	27 50
Clothilde Soupert	3 00	27 50
Asparagus Plumosus Nanus	3 00	25 00
Asparagus Sprengeri	3 00	25 00
Hibiscus "Peachblow"	3 00	25 00
Jerusalem Cherry	3 00	25 00
Lemon Ponderosa	3 00	25 00
Palm Areca Lutescens	4 00	35 00

Jackson & Perkins Co.
Newark, New York.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

.....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

Finest Roses we ever turned out. Send for samples of what you want.

	2½-in	3-in.		2½-in.	3-in.
Am. Beauty	$6.00	$8.00	Uncle John	$2.50	$5.00
Kaiserin	4.50	6.00	Wootton	3.50	5.00
Bride	2.50	5.00	Richmond	3.50	5 00
Ivory	2.50	4.50	Perle	3 00	5.00
Chatenay	2 50	4.50	LaFrance	4.50	6 00
Bridesmaid	2.50	5.00	Killarney	4.50	6.00
Golden Gate	2.50	4.50			

Our Rose stock is better than ever. Perfectly healthy. Samples submitted.

GEO. A. KUHL, Wholesale Grower, **PEKIN, ILL.**

'Mums 'Mums 'Mums

5,000 Golden Glow ready, R. C. and 2½ in.; R. C., $27.00 per 1000; 2½-in., $35.00 per 1000. **2,000 Pacific Supreme** and **White Cloud,** at same price. **Dorner's new Golden Eagle,** $10.00 per 1000. No more Virginia Poehlmann (sold out) until July 1. All standards, Frost, Touset, Enguehard, Golden Wedding, Appleton, Nonin etc., 2½-in., $2.50 per 100, $23.00 per 1000; R. C one-third less.

I. M. RAYNER, Greenport, L. I., N. Y.

ROSE PLANTS

On own roots. Send for list.

C. M. NIUFFER, Springfield, Ohio.

BEATRICE, NEB.—During the hailstorm May 13, 296 panes of glass at the greenhouse of the Dole Floral Co. were broken. The damage elsewhere in the city from hail was slight.

READING, PA.—The Memorial day exercises, under the auspices of various organizations, will include the releasing of a float constructed of flowers on the river, this being allowed to float down to the strains of a band. May 31 is the date set for the exercises.

SEASONABLE STOCK

	2-in. Per 100	3-in. 1000
GERANIUMS, good assortment	$2 00	$3 00
Our selection, 10 good kinds	$15 00 per 1000	
Ageratum, 5 kinds	2 00	3 00
Cannas, J. D. Eisele, Egandale, Alph. Bouvier, Mme. Crozy, Florence Vaughan		4 00
Jean Tissett, President Myers, Louisiana, Pennsylvania		5 00
Centaurea Gymnocarpa	2 00	3 00
Cineraria Maritima Candidissima.	2 00	3 00
Hardy Chrysanthemums, Small flowering	2 00	
Large flowering	3 00	

	2-in. Per 100	3-in. 1000
Dahlias, pot plants, standard kinds and up to $6 00 per 100. Jack Rose, Virginia Maule, Big Chief	2 00	
	50c each.	35 00
Hardy English Ivy	2 00	
Lemon Verbena	2 00	
Lobelia, Kathleen Mallard	2 00	3 00
Petunias, Dreer's Superb Single	2 00	3 00
Salvia Bonfire	2 00	3 00
Zurich	3 00	4 00
Senecio Scandens (Parlor Ivy))	2 00	3 00
Smilax, extra strong	2 00	
Tradescantia, dark variegated	2 00	
Verbenas, mixed colors	2 00	3 00

Not less than 25 at 100 rates; 250 at 1000 rates. Cash with order.

A Personal Inspection Invited. White Marsh is at Cowenton Station, B. & O. R. R., 15 miles north of Baltimore. We meet all trains.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

ROSES

	Per 100	1000		Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00	**Bride,**	$ 5 00	$ 45 00
" 3-in.	9 00	80 00	**Maid,**	5 00	45 00
" 2-in.	6 50	60 00	**Potter Palmer,** 2½ in	5 00	45 00
Rhea Reid, 2¼-in.	5 00	45 00	**Kaiserin,** 3½-in	6 50	55 00

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white exceptionally fine, ready now, R. C. .. $2 50 per 100, $20 00 per 1000; 2½-in., $3 00 per 100, $25 00 per 1000
No more Virginia Poehlmann R. C. or 2½-in. until June 15.
For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in.... $4 00 per 100; $35 00 per 1000
Smilax, 3-in. ..... 4 00 per 100; 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash.
Terms: 30 days net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond, Rose pots, $15.00 per 100; 3½-in. pots, $18.00 per 100. Brides, Bridesmaids Golden Gates Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3 in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Large Geraniums for Large Beds

4-in.....7½c. 5-in.....15c.

Nutt, Marvel, Hill, Grant, Favorite, Salleroi, 3-in. at.....3c.
Cannas, 4-in pots.....7c.
Asparagus Plu., 3-in. pots 5c

VERN L. SCHLURAFF, Erie, Pa.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,
WEST GROVE, PA.

Roses-surplus

list now ready.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN
WELL ESTABLISHED Plants

Kentia Belmoreana

		Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high		$ 6 00	$50 00
		Each	
6-in. " " "	22 to 24 in. high	$1 00	$12 00
6-in. " " "	24 to 26 in. "	1 25	15 00
6-in. " " "	26 to 28 in. "	1 50	18 00
9-in. tub " "	42 to 48 in. "	5 00	

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high ..... $ 4 00 each
12-in. " 4 plants, 6 feet high heavy ..... 15 00 each

Joseph Heacock Co., Wyncote, Pa.

BAY TREES

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS. Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Washington.

BOWLING.

McLennon made a record in the two-man city tournament, making an average of 204. Scores:

Knox 177	168	198	172	144	—	859
Thomas ...204	186	195	183	197	—	965
	381	354	393	355	341	—1,824
Shaffer 180	181	215	203	141	—	920
McLennon .231	165	182	216	225	—	1,019
	411	346	397	419	366	—1,939

G. S.

At Chicago.

Henry Kruchten was high average man in the bowling at Bensinger's alleys May 21, getting 182 flat for his three games. John Zech, with a poor start, came strong at the finish and notched 176 2/3. Competition for places on the team that will represent the Florists' Club at the S. A. F. convention will begin June 4.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS.
CARNATIONS, for fall delivery. SMILAX. VIOLETS.

IN BEST VARIETIES.

Prices low. Send for list.

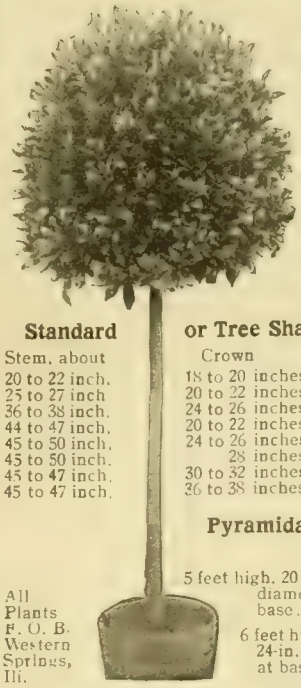
WOOD BROTHERS, Fishkill, N. Y.

J. Kruchten	105	119	134
J. Michaelson	169	139	98
H. Kruchten	182	194	170
M. Fink	71	112	85
E. Winterson	155	130	157
	682	694	644
O. Goerisch	113	121	128
F. Pasternick	118	144	191
W. Graff	107	151	187
J. Zeck	146	176	208
L. Armstrong	113	121	145
	597	713	859
F. Ayers	133	141	174
E. Schulz	118	132	130
J. Craig	117	164	128
F. Krauss	104	115	135
A. Zeck	187	126	161
	659	678	728
E. Farley	91	113	169
L. Vaughan	115	178	169
V. Bergman	170	184	128
T. Vogel	80	94	98
W. Wolf	188	146	181
	644	715	745

ASHTABULA, O.—The firm of Good & Bush has been dissolved by the retirement of Mr. Bush, Mr. Good having purchased his partner's interest.

BAY TREES

(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard or Tree Shaped.

Stem, about	Crown	Each
20 to 22 inch.	18 to 20 inches	$ 4 00
25 to 27 inch	20 to 22 inches	4 50
36 to 38 inch.	24 to 26 inches	6 00
44 to 47 inch.	20 to 22 inches	6 00
45 to 50 inch.	24 to 26 inches	7 00
45 to 50 inch.	28 inches	8 00
45 to 47 inch.	30 to 32 inches	10 00
45 to 47 inch.	36 to 38 inches	12 00

Pyramidal Shaped.

	Each
5 feet high, 20 to 22-in. diameter at base	$ 7 50
6 feet high, 22 to 24-in. diameter at base	9 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

CHICAGO. NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** Office and Store: 76 Wabash Ave., CHICAGO

Geraniums...

Rooted cuttings of Castellane, Viaud, Buchner Ricard and Nutt, at $1.00 per 100, $10.00 per 1000.

ASPARAGUS

Plumosus, ready now. .....$25 00 per 1000
Sprengeri, ready July 1st... 15 00 per 1000

Smilax Ready now at $15.00 per 1000.

HARDY PHLOX

In assortment, principally a fine salmon pink, all of them good varieties rooted cuttings at $1.00 per 100 $7.50 per 1000.

Cash with the order. Honest samples sent free.

ALBERT M. HERR, Lancaster, Pa.

New Carnation Lucille

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convineed that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

BEVERLY, MASS.—J. W. Philbrick will locate in the small store building which is being erected on Abbott street.

BATAVIA, N. Y.—Mrs. Katherine McGuire, mother of the New York Central florist, T. McGuire, died May 14 at her home in Albion.

HARTFORD, CONN.—The season here is fully three weeks late and stock moves slowly. The retailers are making fine displays of pot plants and cut flowers. —T.

WINSTEAD, CONN.—The business outlook for Memorial day is good and quantities of plants will be sold. Some of the large growers are supplying dealers and private parties at the same price.

MONTCLAIR, N. J.—Chester Jay Hunt, president of the Garden Society, has had a remarkably fine display of tulips this season, so good that it has called forth the admiration, not only of local florists, but also of traveling men from Europe.

NORWICH, CONN.—Jacob Reid, who has been gardener to the late Mrs. John Mitchell of this place for the past eight years, has taken charge of the Bradley estate as manager and head gardener. The estate is a large one, situated on the banks of the Connecticut river in Brattleboro, Vt.

CARNATIONS

Rooted Cuttings

	Per 100	1000
Mrs. J. C. Vaughan,	$12 00	$100 00
O. P. Bassett,	8 00	60 00
per 500	$35 00	
Mrs. Chas. Knopf,	12 00	100 00
Ruby,	12 00	100 00
Afterglow,	5 00	45 00
Sarah Hill,	5 00	45 00
Winona,	5 00	45 00
White Enchantress,	4 00	35 00

All Plants F. O. B. Western Springs, Ill.

Vaughan's Seed Store,

84-86 Randolph Street, CHICAGO. 25 Barclay Street, NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

BOOK FOR FLORISTS. SPRING EDITION, NOW READY.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

MY MARYLAND

The Greatest Producing Rose in Commerce Today

Selected plants of the highest quality, ready to ship.

Grafted, $20.00 per 100; $150.00 per 1000. Own root, $10.00 per 100; $90.00 per 1000.

You will kindly remember that we have

Waban Strain White Killarney

that will please you. Grafted, $35.00 per 100; $300.00 per 1000.

A. N. PIERSON, Inc., Cromwell, Conn.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Mention the American Florist when writing

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$6 00	$50 00
Maids, grafted	4 00	30 00
Brides, grafted	4 00	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias,	4 00	35 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Bedding and Miscellaneous Plants

	Per 100
7,000 Vincas,	
Variegated, 2-in	3 00
" 3-in	6 00
" 3 in., strong	8 00
" 3-in., extra strong	10 00
10,000 Geraniums,	
S. A. Nutt and other standard varieties, 2-in.	3 00
" " " " 3-in.	6 00
" " " " 4 in.	8 00
Mme. Salleroi, 2 in.	3 00
Asparagus Plumosus, 2-in	3 00
" " 3-in	5 00
Achyranthes, 2-in	2 50
Abutilon, 3-in	5 00
Begonias, in variety, 2-in	2 00
" " 3-in	5 00
Caladium Esculentum, 3 to 4 in. in circumf.	1 00
" " 5 to 7 in. in circumf.	2 00
Cannas, 3-in. our selection	5 00
Cyperus, 2-in	3 00
" 3-in	5 00
Chrysanthemums, 3-in	4 00
Coleus, mixed, no Verschaffeltii or Golden Bedder	2 00
Echeveria Secunda Glauca	4 00
Fuchsias, 2-in	3 00
Glechoma, variegated, 2 in.	3 00
Heliotrope	3 00
Impatiens Sultani	3 00
Ivy, German	2 50
Lantanas, in variety	2 50
Marguerite Daisies 2 in	2 50
" " 3-in	6 00
" " 4-in	8 00
" " yellow, 2-in	4 00
Manetti Vine	3 00
Myrtle, hardy, 3-in	4 00
Pilea	3 00
Primula Forbesi, 2-in	3 00
Plumbago Capensis	3 00
Roses, Bride, Chatenay, Maid, 2 in.	3 00
" " " " 3-in	5 00
" White Baby Rambler 2-in	6 00
" " " " 3-in	8 00
" " " " 4-in	20 00
Sage, Holt's Mammoth	3 00
Selaginella, Lycopodium Moss, 3-in	4 00
Verbenas	3 00

I. N. KRAMER & SON, Cedar Rapids, Iowa

ORCHIDS

Just arrived, the following:—C. Labiata, C. Mossiæ, C. Mendelii, C Harrisoniæ, C Granulosa, C. Dowiana. Dend. Nobile. D Wardianum, D. Formosum Giganteum. D. Thrysiflorum. Oncidium Varicosum Rogersi. Oncid Phymatochilum. Burlingtonia Fragrans. To arrive shortly: C Trianæ, C. Percivaliana C. Gaskelliana C Schroederæ.

CARRILLO & BALDWIN, Secaucus, N. J.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1 235 Broadway. **T. MELLSTROM,** Agent.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode. D. primulinum. D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

Walden, N. Y.

Business around here has opened up well with the prospect of cleaning up everything with a flower on for Memorial day. Cemetery cleaning and fixing up is coming on in good shape. Carnations will fall short of the demand. Deutzia gracilis and D. Lemoinei will be in and that will help out to some extent. We have had a lot of rain here holding back all kinds of outside planting. Vegetable gardening around here is taking a great number of tomato and other plants.

The Walden Floral Co. with Wm. P. Kestloo as manager has not commenced on the new houses yet.

MAC.

ROSES

OWN ROOT

My Maryland, Rhea Reid and Jardine,

3-inch $12.00 per 100; $100.00 per 1000.

Richmond, Ivory and Chatenay

2½-inch $3.00 per 100; $25.00 per 1000.
3 -inch 6.00 per 100; 50.00 per 1000.

CHARLES H. TOTTY,
Madison, New Jersey.

EARLY 'MUMS

Should Be Planted at Once for Best Results.

We have the following in quantity ready for immediate delivery. Also full quota of **MIDSEASON AND LATE SORTS** for those ready to plant. Price on application.

EARLY

Glory of Pacific, Golden Glow, Ivory, October Frost, Polly Rose, Robert Halliday,

Price: $3 00 per 100; $25 00 per 1000.

Pacific Supreme ..... $4 00 per 100; $35 00 per 1000
Virginia Poehlmann ..... $5 00 per 100

Not less than 25 of a kind at 100 rate; 250 at 1000 rate.

ELMER D. SMITH & CO., Adrian, Mich.

Splendid Plants. **ORCHIDS** Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas: Labiata, Mendelii, Mossiae, Gigas, Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Moutain Fastness to Grower. **Send for Prices.**

G. L. FREEMAN, 388 Appleton St., **Holyoke, Mass.**

PHALÆNOPSIS AND VANDAS.

Importations Received Every Two Months.

Phalaenopsis amabilis,
Phalaenopsis Schilleriana,
Phalaenopsis Sanderiana,
Phalaenopsis Stuartiana,
Vanda Sanderiana,
Vanda Batemannii,
Vanda Boxallii,
Dendrobium superbum.

We also receive many other varieties of orchids from the South Pacific and East Indies.

We respectfully solicit your inquiry in this line.

MacRorie-McLaren Company, 721 Crocker Building, San Francisco, Calif., U. S. A.

NOW READY 1909 EDITION **Trade Directory.**

Miscellaneous Plants

Alternantheras, 4 varieties. $2.50 per 100.
Bouvardias, pink, white, scarlet and Humboldtii. 2-in. pots $3.00 per 100.
Carnations, R. C., from soil, $2.00 per 100—Pink: Dorothy; Scarlet—Elbon.
Chrysanthemums, the best three early varieties: White Cloud Pacific Supreme, Golden Glow. 2½-in. pots. $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2.00 per doz.
Lobelia, Double blue, 2½-in. pots $3.00 per 100.
Hydrangea Otaksa, 2½-in. pots $3.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground, $1.00 per doz.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Phlox, Drummondi, dwarf; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadricolor; Golden Feather, Cupheas, Snapdragon, Lantanas.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2.50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Vinca Var., 2-in., $2.00 per 100, 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia), Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas. Ageratum,** blue and **Heliotrope.**
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100.

Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newton, N. J.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.
2½-in .....$5.00 per 100; $45 00 per 1000

CYCLAMEN.
3-in.....$7.00 per 100 4-in.....$15 00 per 100
5-in.....$25 00 per 100

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

Geraniums..

5000 S. A. Nutt, Mme. Barney, La Favorite,
In 2¼ and 2½-inch pots
Strong, healthy stock.

WOODWORTH & PARKER,
GENEVA, OHIO.

Newton Highlands, Mass.

The season here is very backward and very little is doing as yet in bedding out. From present appearances flowers for Decoration day will be scarce. Outside of funeral work there is little doing in the flower trade. It has been a remarkably favorable spring for the nurseryman, the conditions being nearly ideal for planting. Peonies are nearly a week late but lilacs will hardly hold until Memorial day. F.

Phoenix Canariensis,

IN TUBS
3-ft. at $2.50 each.

Dracæna Indivisa,

7-in. pots, fine stock, 2½ to 3-ft. high, at $7.00 per dozen.
Large stock up to $12.00 per dozen.

BEDDING STOCK

Cannas..

In 4-in. Pots.

	Per 100
Mixed lot at	$ 6 00
Allemania,	$1 25 per doz.
Chas. Henderson,	1 25 per doz. 8 00
Chicago.	1 25 per doz. 8 00
Discolor,	1 25 per doz. 8 00
Florence Vaughan,	1 25 per doz. 8 00
L. Patry,	1 25 per doz. 8 00
Mlle. Berat,	1 25 per doz. 8 00

	Per 100
Ageratum, 3-in. pots	$ 5 00
Cobea, Scandens, 4 in. pots	8 00
English Ivy, 4-in. pots: 3 to 4-ft. long. Per doz. $ 1 50	12 00
Geraniums, assorted varieties, strong plants but not in full bloom	8 00
Lobelia, blue	2 00
Mignonette, 4-in. pots	8 00
Marguerite, 4-in. pots	8 00
Nasturtium, 2½-in. pots	3 00
Santolina, 2-in. pots	3 00
Vinca, Variegated, 3-in. pots	8 00

The Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Surplus Stock

		Per 100
1700	**Ageratum,** Little Blue Star, 2½-in. pots.	$2 00
4000	**Alternanthera,** 2-in. pots	2 00
1000	**Aster,** Carlson, Queen of the Market and Giant Branching, from flats	50
300	**Cobea** Scandens, 2½ and 3-in. pots	3 00
4000	**Coleus,** fine assortment, 2½-in. pots.	2 50
100	**Cuphea,** 2½-in. pots	2 50
700	**Dusty Miller,** 2½-in. pots	2 50
100	**Feverfew,** 2½ and 3-in. pots	2 50
350	**Ivy,** English, 2-in. pots	2 00
100	" " 3 in. pots	3 00
1000	**Lantanas,** assorted varieties, 2½-in. pots,	3 00
200	**Lantanas,** Weeping, 2½-in. pots	3 00
500	**Lobelia,** Bedding Queen, 2½-in. pots.	2 00
250	**Moonvine,** Grandiflora, 2½-in. pots.	3 00
100	**Marguerite,** Queen Alexandra, 4 in. pots	6 00

		Per 100	1000
3700	**Roses,** Monthly, leading varieties, 2 years, 4-in. pots	$7 50	$60 00
1000	**Roses,** Monthly, leading varieties, 3 in. pots	5 00	40 00
7000	**Roses,** Monthly, leading varieties, 2½-in. pots	3 00	25 00
300	**Roses,** Hybrid Perpetual, Jacq., Keynes Normandy, Masson, and Coq. Blanches, 4-in. pots,	7 50	

		Each
50	**Roses,** Baby Rambler, Pink, 5 in pots	25c
75	" " Red, 5-in. pots	25c
50	" " White, 6-in pots	25c
50	" Crimson Rambler, 6 in. pots,	25c

		Per 100
700	**Smilax,** 2-in. pots	$2 00
400	**Sevia,** Serrata Nana, 2½-in. pots	3 00
2000	**Salvia,** St. Louis, 2½-in. pots	2 50
250	**Tradescantia,** Wandering Jew, 2½-in. pots	2 00
1500	**Verbenas,** assorted colors, 2½-in. pots	2 50

The Phoenix Nursery Co., Bloomington, Ill.

PETUNIAS

	Per 100
Seedlings from double seed, 2½-in. pots	$2 50
Asparagus Sprengeri, 2¼-in. pots,	2 00
Asparagus Plumosus, ready July,	2 00
Pansy, new crop July 1,	

GERANIUMS

	Per 100
8 varieties, 3 to 3½-in. pots, my selection	$4 00
Smilax, ready July	1 25
Primroses, ready July 10	2 00
per oz	$4 00

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

15,000 S. A. Nutt

Geraniums, strong, bushy plants in bud and blooom.

The Parker Greenhouses, Norwalk, O.

COLEUS

In 10 Very Best Varieties.

Including Verschaffeltii, Golden Bedder, Beck with Gem, Sensation and other good ones. **$2 00 per 100; R.C., 75c per 100, 6 00 per 1000.**

ASPARAGUS SPRENGERI, extra strong, 2¼-in. pots, $2 00 per 100; $18.00 per 1000.

WALTER W. COLES, Kokomo, Ind.

For RELIABLE STOCK From RELIABLE DEALERS
Keep Tab on Advts. in THE FLORIST.

The Advance Ventilating Machine

Is in use in 40 states, has pleased and is pleasing hundreds of florists. Made of the best material, in a mechanical manner, it will last and is always ready for work. It will take care of all the ventilation that the shafting pipe will carry. Our shafting pipe at 8c for the double strength and 5c for the single strength, is the best grade, new pipe, all painted, straightened, drilled and furnished with our patent couplings and will satisfy you that we are moderate in our profits. Get our estimates, net prices and circular. Give us a trial. We guarantee satisfaction or your money back.

THE ADVANCE CO., Richmond, Ind.

THE ART OF

Floral..... Arrangement.

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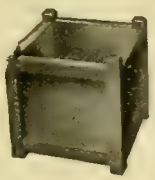

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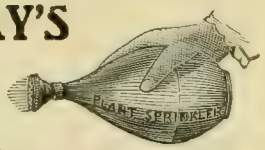

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Iris. E. S. Miller, Wading River, L. I.

IVIES.

Ivy, English, 4-in., $1.50 per doz.; 5-in., $2 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ivies, German, fine, 2½-in., 3c; 2-in., 2c. Hammerschmidt & Clark, 117 Friendship St., Medina, O.

ENGLISH IVY. Fine bushy plants, 3 to 4 ft. tall, 4-in. pots, $15 per 100. Cash. John Reck & Son Bridgeport, Conn.

Ivy, hardy English, 2-in., $2 per 100. Parlor ivy, 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

English ivy, 4½-in., 3 to 4 ft., 15c each. N. C. Moore & Co., Morton Grove, Ill.

English ivy, 2-in., R. C., 75c. J. H. Dann & Sons, Westfield, N. Y.

Ivy, German, 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

JERUSALEM CHERRIES.

Jerusalem cherries, 2½-in., $3 per 100; $25 per 1,000. Jackson & Perkins Co., Newark, N. Y.

LANTANAS.

Lantanas, 2½-in., $3 per 100. Storrs & Harrison Co., Painesville, O.

LEMONS.

Lemon Ponderosa, 2½-in., $3 per 100; $25 per 1,000. Jackson & Perkins Co., Newark, N. Y.

LILACS.

Lilacs. Jacs Smits, Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the Valley. Jacs Smits Ltd., Naarden, Holland.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the Valley. H. N. Brun's, 1407-11 W. Madison St., Chicago.

Lily of the valley, cut blooms, $5 per 100. Anton Schultheis, 316 19th St., College Point, N. Y.

LOBELIA.

Lobelia Kathleen Mallard, 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Lobelia, dbl. blue, 2½ in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

Lobelia, comp. and trailing, 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Phila.

MOONVINES.

Moonvines (Ipomea grandiflora), extra strong, grown from seed, 3-in., $5 per 100; 2½-in., $3.50. Edwin Bishop, Roslyn, Md.

Mushroom spawn. Johnson's, Ltd., 44 Bedford Row, London, England.

Moonvines, 2½-in., $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

The Brookville Moss and Peat Co., Brookville, N. J. Dealers in Baled Sphagnum Moss. See our Special offer in the American Florist of May 15, page 804. Correspondence solicited.

Sphagnum. Both quality and quantity, bag or barrel, $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

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Mushroom spawn. Sure Crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., N. Y.

Mushroom spawn. Lambert's Pure Culture American Spawn Co., St. Paul, Minn.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries, Chestnut Hill, Philadelphia.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

ORANGES.

Orange Otaheite, 2½-in., $8 per 100. Anton Schultheis, 316 19th, College Point, N. Y.

ORCHIDS.

Orchids, just unpacked, Oncidium varicosum Rogerslii, O. splendidum, O. crispum, O. Forbesii, O. sarcodes, O. Wentworthianum, O. grande, Miltonia candida, M. spectabilis, M. flavescens, Lycaste Skinneri, Scuticaria Steelii, Zygopetalum crinitum, Z. Gautieri, Cattleya Warnerii Phalænopsis amabilis, P. Schilleriana, Vanda Sanderiana. To arrive in a few days: Cattleya Trianæ, C. labiata, Odontoglossum crispum, Dendrobium formosum, D. nobile, D. thyrsiflorum, Vanda cœrulea, Cattleya Percivaliana. Lager & Hurrell, Summit, N. J.

Orchids, Phalænopsis amabilis, P. Schilleriana, P. Sanderiana, P. Stuartiana, Vanda Sanderiana, V. Batemannii, V. Boxalii, Dendrobium Superbum. MacRorie-McLaren Co., 721 Crocker Bldg., San Francisco.

Orchids, Cattleyas: Labiata, Mendelli, Mossiæ, gigas, gigas Sanderiana, aurea, chrysotoxa. G. L. Freeman, 388 Appleton St., Holyoke, Mass.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

PALMS.

Phœnix Rœbeleni, 5-in., $18 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Phœnix Canariensis, 7 and 8-in. tubs, $3 per pair; 9-in. pots, $5 per pair; 9-in. pots, $6 and $7 per pair; 10-in. pots, $9 per pair; 10-in. tubs, $9 per pair. Anton Schultheis, 316 19th St., College Point, N. Y.

Nice specimen Latania palms, 8-in. pots, $15 per 10; nice specimen Latania palms, 10-in. pots, $20 per 10. Wagner Park Conservatories, Sidney, O.

Phœnix Canariensis, in tubs, 3 ft., $2.50 each. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Raphis humilis, 3 ft., 50c per shoot; plants, $1.50 to $5 each. Flabelliformis, 4 to 5 ft., 50c per shoot, plants, $3.50 to $5 each. Anton Schultheis, 316 19th St., College Point, N. Y.

Palms, Areca lutescens, 2½-in., $4 per 100; $35 per 1,000. Jackson & Perkins Co., Newark, N. Y.

Palms, sago, 4 to 6 leaves, 8c per leaf. Perennial Gardens Co., Toledo, O.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Bobbink & Atkins, Rutherford, N. J.

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FOR SALE.—Specimen plant of Pandanus Veitchi, spread 6 feet, several hundred perfect leaves, suitable for show purpose, house broke and reasonable. O'Hara, 311 Cambridge Ave., near Belmont and the lake, Chicago.

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Pandanus Veitchi, 6-in., $12 per doz. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Pandanus. P. J. Berckmans Co., Augusta, Ga.

PENTSTEMONS.

Pentstemons, trade packets of Wells' gigantic flowered strain, 25c to $1 each. The finest novelty for bedding ever sent out, all colors. Chas. H. Totty, Madison, N. J.

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Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

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Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

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PETUNIAS.

Petunias, double, 4-in., $7 per 100; California Giant, 3-in., $4; Inimitable, 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Petunias, Dreer's superb single, 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Petunias, dbl. mixed, from 2-in. pots, 2c; from 3-in. to clear out at 3½c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Petunias, seedlings from dbl. seed, 2½-in., $2.50 per 100. Jos. H. Cunningham, Delaware, O.

Petunias, dbl., R. C., 10 kinds, $1 per 100. Byer Bros., Chambersburg, Pa.

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Primroses, $2 per 100. Jos. H. Cunningham, Delaware, O.

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Privet, golden leaf Calif., 6½ and 7-in. pots, $6 per doz. Anton Schultheis, 316 19th St., College Point, N. Y.

Privet, California and Japanese, 1½ to 3 ft. E. Y. Teas Co., Centerville, Ind.

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Rhododendrons. Jacs Smits, Naarden, Holland.

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ROSE PLANTS.
2½-Inch Stock.

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Maids	$3.00	$25.00
Brides	3.00	25.00
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Rhea Reid	5.00	45.00
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Roses, own root, 2½-in., Crimson Rambler, Dorothy Perkins, Queen of Prairie, Balt. Belle, Y. Rambler, $25 per 1,000. C. Zeimet, Novæ Anglæ, $40 per 1,000. Anne de Diesbach, Baron do Bonstettin, Coq. des Alps, Coq. des Blanches, Cl. Victor Verdier, Cl. Jules Margottin, Duc de Cazes, Duchess de Caylus, Gruss an Teplitz, Francois Levet, Hermosa, K. A. Victoria, La France, La Reine, Mme. Alf. Carrier, Paul Neyron, Mrs. Laing, Jules Margottin, Victor Verdier, Prof. Koch, Mme. G. Luizot, March. of Lorne. W. & T. Smith Co., Geneva, N. Y.

Roses, monthly, leading vars., 2-yr., 4-in., $7.50 per 100; $60 per 1,000; 3-in., $5 per 100; $40 per 1,000; 2½-in., $3 per 100; $25 per 1,000. Hybrid perpetuals, Jacq., Keynes, Normandy, Masson, Coq. Blanches, 4-in., $7.50 per 100. Baby Rambler, pink and red, 5-in., 25c each; white, 30c each. Crimson Rambler, 6-in., 25c each. The Phœnix Nursery Co., Bloomington, Ill.

Roses, 3-in., Am. Beauty, $7 per 100; $65 per 1,000; Richmond, Chatenay, Ivory, $4 per 100; $35 per 1,000; Bride and Maid, $4.50 per 100; $40 per 1,000. 2¼-in. pots: Am. Beauty, $5.50 per 100; $50 per 1,000; Richmond, Chatenay, Ivory, $3 per 100; $25 per 1,000. Bride and Maid, $3.50 per 100; $30 per 1,000. United States Cut Flower Co., Elmira, N. Y.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per 100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. Rhea Reid, 2½-in., $5 per 100; $45 per 1,000. Cardinal, 2½-in., $6 per 100. Bride, Maid, Potter Palmer, Kaiserin, 2½-in., $5 per 100; $45 per 1,000. Potter Palmer, Kaiserin, 3½-in., $6.50 per 100; $55 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Roses, 2½-in.: Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay, Minnehaha, Phila., White and Yellow Rambler, $3 per 100; $27.50 per 1,000. Anny Muller, $3.50 per 100; $30 per 1,000. Baby Rambler, $2.75 per 100; $25 per 1,000. White Baby Rambler and C. Soupert, $3 per 100; $27.50 per 1,000. Jackson & Perkins Co., Newark, N. Y.

Roses, Am. Beauty, 2½-in., $6; 3-in., $8. Kaiserin, 2½-in., $4.50; 3-in., $6. Bride, Maid, Uncle John, 2½-in., $2.50; 3-in., $5. Ivory, Chatenay, G. Gate, 2½-in., $2.50; 3-in., $4.50. Wootton, Richmond, 2½-in., $3.50; 3-in., $5. Perle, 2½-in., $3; 3-in., $5. La France, Killarney, 2½-in., $4.50; 3-in., $6. Geo. A. Kuhl, Pekin, Ill.

Roses, strong, clean stock, grafted; Bride, Maid, Killarney and Richmond, $12 per 100. Own roots: Bride, Maid, Killarney, Ivory, Gates and Richmond, $6 per 100; all from 3½-in. pots. Also Dracæna indivisa, pot-grown, plants 5½-in., $25 per 100. P. R. Quinlan, Syracuse, N. Y.

OWN ROOT ROSES, 2½-in. pots.
Bride, Bridesmaid, Richmond, Mrs. Potter Palmer, Chatenay, Rhea Reid, $5 per 100; $40 per 1,000. Strong, clean stock.
S. J. REUTER & SON, INC.,
Westerly, R. I.

ROSES, own root, 2½-in. stock: Mrs. Jardine, My Maryland, Rhea Reid, Queen Beatrice, $10 per 100; $90 per 1,000. Bride, Maid, Ivory, Chatenay, Richmond, $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Roses, 1-yr. bench, Am. Beauty, $7 per 100; $65 per 1,000. Maid, grafted, $3.50 per 100; $30 per 1,000. From 2½-in.: Maid, Bride, $3 per 100; $25 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Roses, My Maryland, grafted, $20 per 100; $150 per 1,000; own roots, $10 per 100; $90 per 1,000. White Killarney, grafted, $35 per 100; $300 per 1,000. A. N. Pierson, Inc., Cromwell, Conn.

Rose White Killarney, 2¼-in., own roots, $30 per 100; 250 for $70; $250 per 1,000; grafted, $35 per 100; 250 for $82.50; $300 per 1,000. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Roses, Lady Gay, Hiawatha, Newport Fairy, 6½-in., $9 and $12 per doz. Crimson Rambler, in bloom, 6½ and 7-in., $6 to $12 per doz. Anton Schultheis, 316 19th St., College Point, N. Y.

Roses, Kaiserin, 2½-in., $27.50 1,000; 3-in., $55 per 1,000; Hermosa, 2¼-in., $25 per 1,000. Crimson Rambler, 2¼-in., $25 per 1,000. E. G. Hill Co., Richmond, Ind.

Grafted roses, strong, healthy stock. Rhea Rein, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, Bride, Maid, Golden Gate, 3-in., $5 per 100. Geo. M. Emmans, Newton, N. J.

Roses, leading varieties. Leedle Floral Co., Springfield, O.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses, Bride, Richmond, Killarney, 2½-in., own roots. Thorn Hedge Greenhouses, Newtown Square, Pa.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, own root. C. M. Niuffer, Springfield, O.

Roses, leading vars. Dingee & Conard Co., West Grove, Pa.

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Salvias, Zurich, Fireball, Maroon Prince, Clara Bedman, Splendens, 2-in., $3 per 100; $25 per 1,000; 3-in., $5 per 100. Storrs & Harrison Co., Painesville, O.

Salvias, 3 vars., 2½ and 3-in., $2.50 and $3 per 100. West End Greenhouses, Lincoln, Ill.

Salvias, Bedman, Zurich, Splendens, 2¼-in., 2c. Hammerschmidt & Clark, 117 Friendship St., Medina, O.

Salvia Bonfire, 2-in., $2 per 100; 3-in., $3. Zurich, 2-in., $3; 3-in., $4. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Salvia Zurich, from 3-in. pots, 4c; Lord Fauntleroy extra strong, from 3-in. pots, 5c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Salvia Bonfire, 4-in., $8 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Salvia, Zurich, R. C., $1.50 per 100; $12.50 per 1,000. Perennial Gardens Co., Toledo, O.

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Seeds, bean, beet, cabbage, carrot, kohl rabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

Seeds, Asters, Vick's Mikado Pink packet, 25c. Vick's Imperial Lavender, 1-64 oz., 40c; 1-32 oz., 60c; 1-16 oz., $1; ⅛ oz., $1.50; ¼ oz., $2.50; ½ oz., $4.50; oz., $8. Vick's Non-Lateral Branching, 1-32 oz., 25c; 1-16 oz., 40c; ⅛ oz., 60c; ¼ oz., $1; ½ oz., $1.75; oz., $3. James Vick's Sons, Rochester, N. Y.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

Seeds, Primula obconica grandi., blood red, per 1,000 seeds, $1.50; tr. pkt., 50c; real pink, pure white, mixed hybrids, per 1,000 seeds, $1; tr. pkt., 50c. Compacta, 1,000, $1.50; tr. pkt., 50c. Zangen, Hoboken, N. J.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

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Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordan, Mich., Sister Bay, Wis.

Seeds, Asparagus plumosus nanus, 25c per 100 seeds; $2.50 per 1,000. Stoke's Seed Store, 219 Market St., Philadelphia.

Seeds, pansy, new crop, $4 per oz. Jos. H. Cunningham, Delaware, O.

Winter onion sets. Vaughan's Seed Store, Chicago and New York.

Seeds, Improved Teneriffe onion seed. Varela's improved onion seed. Frederico C. Varela, Teneriffe, Canary Islands.

Seeds, Rosa multiflora nana and all other flower seeds. J. M. Thorburn & Co., 33 Barclay St., New York.

Seed, pansy, 1,000 seeds mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seed potatoes, Red River stock. Onion sets. Vaughan's Seed Store, Chicago.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton Zvolanek, Boundbrook, N. J.

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Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, sweet peas, tomatoes, Lima beans, lettuce, asters, cosmos and other flower seeds. John Bodger & Sons, Gardena, Calif.

Seeds, growers for the wholesale trade only. Braslan Seed Growers' Co., San Jose, Calif.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, Puget Sound Cabbage. Chas. H. Lilly & Co., Seattle, Wash.

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Smilax, nice plants, fall sown, 50c per 100; $3 per 1,000; Smilax, strong, 1-year, $2 per 100; $18 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 3-in., $4 per 100. United States Cut Flower Co., Elmira, N. Y.

Smilax, $1.25 per 100. Jos. H. Cunningham, Delaware, O.

Smilax, $15 per 1,000. A. M. Herr, Lancaster, Pa.

Smilax, strong, 2-in., $2 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Smilax, 3-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Smilax. Wood Bros., Fishkill, N. Y.

SPIREAS.

Spireas, J. Smits, Ltd., Naarden, Holland.

STEVIA.

Stevia, green or var., 2-in., 2c; R. C., 75c per 100. Byer Bros., Chambersburg, Pa.

SWAINSONA.

Swainsona, 2-in., 2c; R. C., $1 per 100. Byer Bros., Chambersburg, Pa.

Swainsona, 2½-in., $2 per 100. N. C. Moore & Co., Morton Grove, Ill.

VEGETABLE PLANTS.

Vegetable plants, cabbage, field-grown, leading vars., $1 per 1,000; 10,000 and over, 85c. Beets: Crosby, Egyptian and Eclipse, $1.25 per 1,000. Celery: White Plume, Golden Self Blanching, Giant Pascal, $1.25 per 1,000. Egg plant: N. Y. Improved and Black Beauty, $3 per 1,000. Lettuce: Big Boston, Boston Market, Tennis Ball, Grand Rapids, $1 per 1,000. Pepper: Ruby King, Bull Nose, Sweet Mountain, Neapolitan, $3 per 1,000; Chinese Giant and Cayenne, 50c per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Vegetable plants: Cabbage, all kinds, $1 per 1,000. Tomatoes, $1.50 per 1,000. Cauliflower, Snowball, $2.50 per 1,000. Egg plant and peppers, $2.50 per 1,000. J. C. Schmidt, Bristol, Pa.

Tomatoes: Earliana, Chalk's Jewel, Greater Baltimore and B. B., $1.25 per 1,000. Sweet potatoes: Big Stem, $2 per 1,000. Cabbage: Jersey Wakefield, $1 per 1,000. Edwin Bishop, Roslyn, Md.

Early and late tomato plants, $1.50 per 1,000. Early and late cabbage, $1 per 1,000. Sweet potato plants, $2 per 1,000. Cash. Mrs. Edward Hayden, Greenview, Ill.

VERBENAS.

Verbenas, 40,000 plants in bud and bloom, price $2.50 per 100; $20 per 1,000. J. L. Dillon, Bloomsburg, Pa.

Verbenas, mixed colors, 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Lemon Verbenas, 2-in., $2 per 100. R. Vincent Jr., & Sons Co., White Marsh, Md.

Verbenas, asst., 2½-in., $3 per 100. G. Aschmann, 1012 W. Ontario St., Phila.

Verbenas, 2-2½-in., $2 and $3 per 100. West End Greenhouses, Lincoln, Ill.

VINCAS.

Vinca Var., finest stock, long and heavy, $10 and $12.50 per 100. Bellamy Bros., 207 Delaware St., Syracuse, N. Y.

Vincas variegated, 3½ and 4-in., $6, $8 and $10 per 100; 5-in., $13 per 100; 2½-in., $3 per 100. Cash with order. Geo. Bischoff, Ann Arbor, Mich.

Vinca variegata, 4-in., $12 per 100. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Vinca, variegated, 2-in., 2c; R. C., 90c per 100; $8 per 1,000. Byer Bros., Chambersburg, Pa.

Vincas, 4-in., $12 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vincas, 300 for $5; 2½-in. J. C. Schmidt, Bristol, Pa.

Vinca variegated, 3 to 4-in., $5 to $10 per 100. West End Greenhouses, Lincoln, Ill.

VIOLETS.

Violets, Baronne Rothschild, the freest, most fragrant and best paying single violet, R. C., $10 per 100. Chas. H. Totty, Madison, N. J.

Boston violet, very strong, well rooted divisions, $5 per 100. Geo. Corbett, College Hill, Station K, Cincinnati, O.

Violets. Wood Bros., Fishkill, N. Y.

STOCK WANTED.

Wanted—250 each, Boston and Piersoni ferns; small plants. Wagner Park Conservatories, Sidney, O.

Wanted.—One plant Pandanus utilis, 6 feet high. State price. Shafer Estate, Ballston Spa., N. Y.

TO EXCHANGE.

We are long on Geraniums and short on Enchantress. Will exchange Geraniums in 4-in. pots for Enchantress in 3-in. pots. N. C. Moore & Co., Morton Grove, Ill.

WHOLESALE CUT FLOWERS.

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Amling, E. C., 32-36 Randolph St., Chicago.

Berning, H. G., 1402 Pine St., St. Louis.

Deamud, J. B. Co., 51 Wabash Ave., Chicago.

Ford Bros., 48 W. 28th St., New York.

Froment, Horace E., 57 W. 28th St., N. Y.

Growers' Cut Flower Co., 39 W. 28th St., New York.

Guttman, Alex. J., 34 W. 28th St., N. Y.

Henshaw & Fenrich, 44 West 28th St., N. Y.

Holton & Hunkel Co., 462 Milwaukee St., Milwaukee, Wis.

Hunt, E. H., 76 Wabash Ave., Chicago.

Kennicott Bros. Co., 48-50 Wabash, Chicago.

Kessler Bros., 50 W. 28th St., New York.

Keuhn, C. A., 1122 Pine St., St. Louis.

Kruchten, John, 51 Wabash Ave., Chicago.

Krueger Bros., Toledo, O.

Langjahr, Alfred H., 55 W. 28th St., N. Y.

Manhattan Flower Market, 46 W. 28th St., New York.

McCallum Co., 937 Liberty Ave., Pittsburg.

McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.

McKellar, Chas. W., 51 Wabash, Chicago.

McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.

Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.

Millang Bros., 41 W. 28th St., New York

Chas. Millang, 444 6th Ave., cor. 27th St., New York.

Murdoch, J. B. & Co., 714 Penn Ave., Pittsburg, Pa.

Niessen Co., Leo, 1208 Arch St., Phila.

N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.

Perkins & Nelson, room 112 Coogan Bldg., cor. 6th Ave. and 26th St., New York.

Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.

Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.

Pollworth, C. C. Co., Milwaukee, Wis.

Randall, A. L. Co., 19 Randolph St., Chicago.

Raynor, John I., 49 W. 28th St., New York.

Rice Bros., 128 N. 6th St., Minneapolis, Minn.

Robinson, Henry M. & Co., 11-15 Province St., Boston.

Seligman, John, 56 W. 26th St., New York.

Sheridan, Walter F., 39 W. 28th St., N. Y.

Shibeley-Mann Co. Inc., 1203 Sutter St., San Francisco.

Smith & Co., W. C., 1316 Pine St., St. Louis.

Traendly & Schenck, 44 W. 28th St., N. Y.

Vaughan & Sperry, 58-60 Wabash Ave., Chicago.

Welch Bros., 226 Devonshire St., Boston.

Winterson, E. F. Co., 45-49 Wabash, Chicago.

Young, A. L. & Co., 54 W. 28th St., N. Y.

Young, John, 51 W. 28th., N. Y.

Young, C. & Sons, 1406 Olive St., St. Louis.

Young & Nugent, 42 W. 28th St., New York.

Zech & Mann, 51 Wabash Ave., Chicago.

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Bassett & Washburn, 76-78 Wabash, Chicago.

Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.

Bruns, H. N., 1409-11 W. Madison, Chicago.

Budlong, J. A., 37-39 Randolph St., Chicago.

Elliott, W. H., Brighton, Mass.

Hill, The E. G. Co., Richmond, Ind.

Jensen & Dekema, 674 W. Foster Ave., Chicago.

Poehlmann Bros., 35-37 Randolph, Chicago.

Reinberg, Peter, 35 Randolph St., Chicago.

State Nursery Co., Helena, Mont.

Weiland & Olinger, 128 E. 3rd St., Cincinnati, O.

Weiland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Wittbold, Geo. Co., 1657 Buckingham Pl., Chicago.

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Buffalo, N. Y.—Palmer's.

Chicago—Hauswirth, Florist, Auditorium Annex.

Chicago—Wittbold, Florist, 1657 Buckingham Place.

Cincinnati, O.—Julius Baer, 138 E. 4th St.

Dayton, O.—Matthews, 16 W. 3rd St.

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Denver, Colo.—Daniels & Fisher.

Denver, Colo.—The Park Floral Co.

Detroit, Mich.—John Breitmeyer's Sons, Cor. Miami and Gratiot Aves.

Galveston, Tex.—Mrs. M. A. Hansen.

Helena, Mont.—State Nursery Co.

Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.

Kansas City, Mo.—Geo. M. Kellogg Flower and Plant Co., 906 Grand Ave. Also Pleasant Hill, Mo.

Kansas City—S. Murray, 1017 Broadway.

Los Angeles, Calif.—J. W. Wolfskill, 218 W. 4th St.

Louisville, Ky.—J. Schultz, 644 4th Ave.

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Omaha, Neb.—Hess & Swoboda, 1416 Farnam St.

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Blowers. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Building material, lumber for greenhouse benches, shiplap, drop siding, sheeting, flooring, white cedar posts, etc. We are in special position to furnish "Pecky Cypress;" everything in pine and hemlock building lumber. Adam Schillo Lumber Co., cor. Weed and Hawthorn Sts., Chicago.

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Building material, cold frames, hotbed sash. Hitchings & Co., 1170 Broadway, N. Y.

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Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Wizard Shredded Cattle Manure, 100 lbs $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs. $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

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Glass, High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22nd and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, New York.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

Free to Florists—Sample box of Red Pots. George E. Feustel, Fairport, Iowa.

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Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 for 1,000.

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Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit, Mich.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

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Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

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The largest manufacturers of these goods in America. Send for catalogue.

Montreal.

EVERYBODY BUSY.

Everybody is rushed and, as usual when things do turn brighter, it comes and finds us not prepared. The retail stores are all working to their fullest capacity; funeral work takes a large part, but orders for bedding plants are the most troublesome and least profitable, and many of our first-class stores would be glad if this trade could be done by the growers entirely. This would give them a larger profit and rid the retailers of a lot of trouble without much loss.

The first monthly exhibition of the Gardeners' and Florists' Club, held at the club rooms, proved to be an unexpected success; there was a large entry list and the flowers shown were of a very high class. The awards follow:

Twelve pansies.—Hall and Robinson, first.
Twelve sweet peas.—J. Eddy, first; Hall & Robinson, second.
Six antirrhinums.—J. Miles, first; J. Eddy & Son, second.
Six carnations.—J. Kean, first.
Six roses.—J. Kean, first; E. Hibbs, second.
Special prizes were awarded to Hall & Robinson for six Killarney roses; J. Kean for a vase of carnations and J. Luck for a vase of marguerites, Queen Alexandra.
First prizes were won by G. Miles for Oncidium varicosum.

Two children of James Kean were severely injured by the explosion of a cap of dynamite; ill luck seems to follow the lad who exploded the dynamite. Only a year ago he fell off a sink into a glass, severely lacerating his face, marking it for life, and now he has lost his thumb and two fingers of his left hand.

A. Asselman is going to build a greenhouse 25x100 feet for general plants.

LUCK.

Northampton, Mass.

The town of Hadley is to lay a line of pipe to East Hadley this summer to supply the immense greenhouses which A. Montgomery is going to erect at the latter place. It is understood that fine roses are to be a specialty, as the soil seems to be adapted to them.

Field, Parks and Sinclair, at the center, report cut flowers fairly active and good call for bedding plants. F. D. Keyes is kept hustling all of the time with design work.

Plant trade is brisk at the Bridge Street Greenhouses, although the cold weather has retarded sales somewhat.

Chas. Lewis reports business from his greenhouse as brisk.

G.

CHITTENANGO, N. Y.—Owing to the closing of local industries trade has not been as good as it might be, according to A. R. Ellis, but he is still selling more than he can grow and intends building this summer. Plant trade has been especially good and prospects for Decoration day are excellent.

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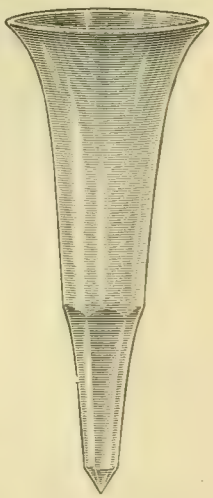

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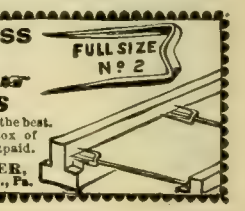

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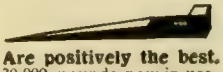

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RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

ELIZABETH, N. J.—Henry Leahy is out with a magnificent new delivery wagon. The rear part of the wagon is of glass, this constituting good advertising as the quality of the flowers can be seen by all.

BRISTOL, CONN.—There are fine shows of cut flowers in the retailers' windows, but sales are slow. Cool, cloudy weather has prevailed all through April and so far in May, and the season is quite three weeks late.—T.

JACKSONVILLE, FLA.—C. A. Mason had the decorations at the Shriners' banquet May 14, and these were very elaborate and good; about 200 palms and pot plants were used, 1,500 carnations and quantities of southern smilax. Many congratulations were tendered Mr. Mason.

WINSTON SALEM, N. C.—The Fallon Floral Co., of this city, owned by John Fallon, of Staunton, Va., and Frank Fallon, of Roanoke, Va., changed hands May 18, when the owners sold the complete plant to Martin McNulty, who has been the company's manager here since its establishment about a year ago, the consideration being $15,000. The sale of the plant here does not affect the Fallon greenhouses in Virginia and they will be continued as heretofore.

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This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.
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Worcester, Mass.

The show of the Worcester County Horticultural Society May 20 brought out some fine tables of flowers. Geo. McWilliam had two tables of lily of the valley and pansies, which were much admired. M. J. Whittall had six calceolarias of exceptionally good quality. The tulip displays, both double and single, were very good. The awards were as follows:

Cut flowers: Mrs. J. C. Whitin, first; Allyne W. Hixon, second; Mrs. Simeon E. Fisher, third; Mrs. A. E. Underwood, fourth.

Pansies: Charles Potter, first; Mrs. Percy G. Forbes, second; Mrs. J. C. Whitin, third; Mrs. H. R. Hildreth, fourth.

Zonal geraniums: H. F. A. Lange, first; E. W. Breed, second; Allyne W. Hixon, third; H. B. Watts, fourth.

Gratuities: W. A. Bazely for Dimorphotheca aurantiaca and geranium seedlings. Mrs. J. C. Whitin, Dendrobium thrysiflorum. M. J. Whittall, display of calceolaria.

Wild flowers: C. E. Boyden, first; Allyne and Stanley Hixon, second.

Tulips: E. W. Breed, first; Mrs. Edward Warren, second; Mrs. Percy G. Forbes, third; Mrs. E. J. Whitney, fourth.

Lily of the valley and pansies; G. Marston Whiting. R

☞ Has stood the test of over a Quarter of a Century.

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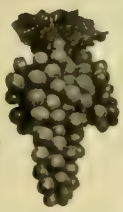
MANURE



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TRADE MARK
Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE
Pure - Uniform - Reliable
A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE
Easy to Handle and Apply
Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

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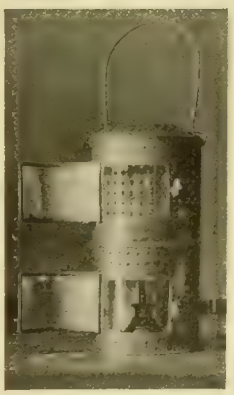

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BENJAMIN DORRANCE,
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The Superior Improved Internal Fired Boiler
Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use: shipped on skids ready for installation. Specially designed for greenhouse use.

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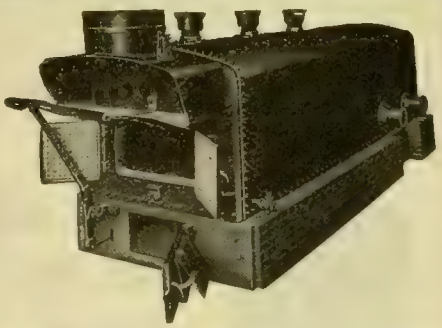

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Ask for list of users and get acquainted with the men who know.

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Use our patent Iron Bench Fittings and Roof Supports.

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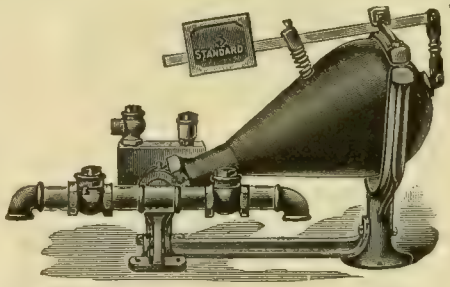

The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

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Pittsburg.

TRADE UNSATISFACTORY.

The market this week has been a continuation of last, very unsatisfactory. Wagonloads of flowers are being moved daily but at figures that do not look well on paper. Lily of the valley is moving very slowly, due partly to the field stock that is swamping the market, selling at 15 cents per 100 and down. Sweet peas are no longer holding their own, their downfall being caused on account of arriving in very poor shape. Prospects for Memorial day are very good. The plant trade, in fact, has never been better.

NOTES.

Anton Krut of Butler is cutting sweet peas in unlimited quantities. He states business has been very satisfactory with him.

Mrs. E. A. Williams had a very novel window display last week of dogwood blossoms, yellow daisies and ferns.

B. A. Mick of Wellsville, O., who has been out of business for some time, has opened a new store at that place.

The Breitenstein Co. is handling all kinds of plants and shrubbery, a new enterprise for this firm.

J. J. Fuchs, of the south side, reports several large funeral orders last week.

The Southview Floral Co., of Carrick, is cutting some fine Chatenay roses.

Mrs. Elicker of Homestead, who has been ill the past week, is around again.

The New York Cut Flower Co. reports plant business very good.

Visitors: E. J. Fancourt of S. S. Pennock-Meehan Co., Philadelphia; Anton Krut, Butler; the Misses Keeney, Monongahela. J.

Syracuse, N. Y.

Bellamy Bros., successors to L. E. Marquisee, are busy moving their greenhouses from Delaware street to Onondaga avenue, to make way for a new residence. It is expected that the building operations will cover a period of two months and the firm, when it is finally located, will have a new office building on the Onondaga avenue site. The moving will not interfere with the business. At the present time Bellamy Bros. are working on several new seedling carnations and report that they are coming along well. They report a good demand for plants for outdoor flower beds, a liberal amount of funeral work and a fair sale for roses, carnations and sweet peas.

P. R. Quinlan, head of P. R. Quinlan & Co., has just returned from a trip to Venezuela, where he went in the interests of his asphalt business. Mr. Quinlan says a native of Venezuela told him that the acts of ex-President Cipriano Castro had hurt that country.

Because of backward and cold weather retailers and growers of this section are in doubts of being able to take care of the Memorial day trade. Although there have been no frosts the cold has retarded growth. Lilacs will be available and some tulips, but peonies are doubtful.

Funeral work at the beginning of the week was good. A. V. B.

WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
Send for Catalog and Prices.
S. WILKS MFG. CO.,
3525 Shields Ave. CHICAGO.

Cleveland.

BUSINESS GOOD.

Business the past week has been very good, all stock moving fairly well, carnations and white roses having the best call. Long American Beauty and Richmond roses had a good call, and the quality was never better. Iris is plentiful, but does not bring the price for the quality shown. Gladioli move slowly. The demand for Easter lilies has been very good, but they were hard to get. Callas also had a good call. Smilax was in demand, being used in the churches on Sunday.

NOTES.

John Blechschmidt, the Miles avenue carnation grower, has sold his range of houses to a Mr. Hoffman, who will continue the business beginning June 1. Mr. Blechschmidt goes into his new houses at this time.

C. B. Wilhelmy has purchased the greenhouses next to his on W. Twenty-fifth street, formerly occupied by F. C. Witthuhn. Mr. Witthuhn will move across the street to new quarters about September 1.

Mrs. Amber Phillips of the Home Gardening Association is engaged in establishing gardens in connection with the day nurseries in this city.

The Neal Dow W. C. T. U. held a meeting Tuesday at which plans were made for flower mission day.

C. B. Wilhelmy, 3610 W. Twenty-fifth street, was presented with a fine baby boy Saturday morning.

F. H. Moritz has a fine lot of hydrangeas for his Decoration day trade.

C. F. B.

Washington.

WORK FOR SCHOOL EXERCISES.

The season of commencements is here; the retailers are busy with decorations, and are rapidly booking orders for bouquets and basket arrangements to be used at the closing exercises of the various schools and seminaries. The president and leaders in official life are still here and will be as long as congress stays, but every day adds a few more to the closed houses of the fashionable district. It is expected that there will be a good sale of made-up cemetery baskets, as well as other decorative materials; owing to the fact that Memorial day comes on Sunday, the retailers no doubt will have three busy days. The increase in temperature and the copious rains have come as a godsend to the grower, and it is expected that there will be sufficient outdoor stock to supply the great demand for Memorial day. The first water lilies of the season were seen in some of the stores the past week, and outdoor sweet peas are brought to the city in great quantities, a fact which has helped to decrease the price of them to a great extent. There are a goodly number of fine gladioli and peonies to be secured. American Beauty roses are rather scarce and in poor condition.

G. S.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter. be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.
4-250 horse power **Heibe** water tube boilers with Oliver patent grates: 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.
1-48x21 locomotive fire box boiler. 60 horse power, 100 lbs. pressure.
24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!
A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.
Good for 60 lbs. pressure. Free from patches, bulges or blisters.
Complete with all fittings.
We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted: 50 4½-in. tubes: 110 lbs. pressure.
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2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

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2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.
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BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.
5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

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Write for Prices.

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Mention the American Florist when writing

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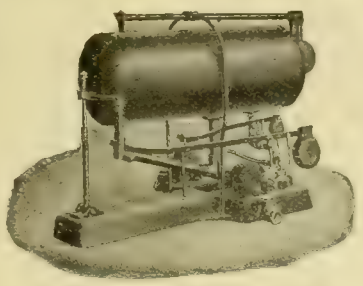

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And You Buy a Guarantee.

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Write us the size of boiler and number of square feet of glass, for our price.

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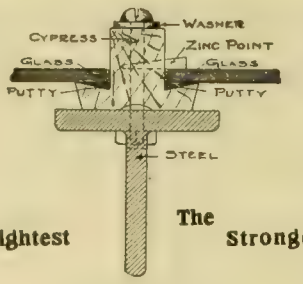
The Payne Steel T" Bar Greenhouses



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Half full Size.

HOUSES of this type constructed with both curved glass eaves and straight glass eaves. Least amount of shadow. Least amount of wood. No drip. Greatest durability.

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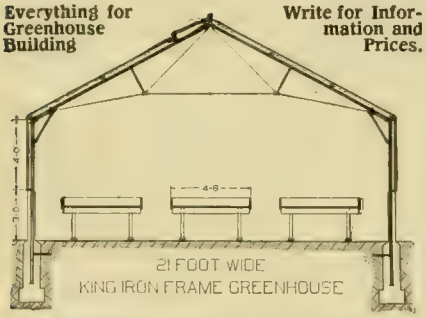

In Widths From 14-ft to 54-ft.
WITHOUT POSTS.

King Truss Sash Bar Houses
Iron Gutters and Eaves
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King Construction Co.
NORTH TONAWANDA, N. Y.

Mention the American Florist when writing

This Range is at Pomfret, Conn.

The Superintendent is Mr. John Ash who has such an enviable reputation for his successes with fruit, especially potted, grown in this range.

His orchard house is the curvilinear one at the right. When the crop is off he uses the house for 'mums—some forty varieties which were culled from over a hundred he imported.

Since taking this photo, we have erected what Mr Ash says is "an ideal rose house." It is connected by a passage to the work room at the left and is our Sectional Iron Frame Construction like the rest of the houses.

If you want to know the particulars about this rose house or any part of the range—will be glad to hear from you.

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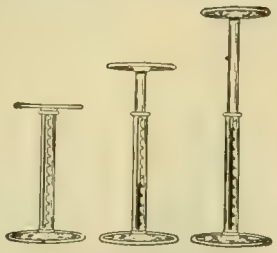

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Morristown, N. J.

Fifty-two members of the Morris County Gardeners' and Florists' Society met May 12 to hear Dr. F. G. Lipman, of the New Jersey Agricultural Experiment Station, of New Brunswick, lecture on "Soils and Fertilizers." The doctor has been working hard at the station and throughout the state in this line for the past 15 years, so he was of all men well fitted to tell us a few things. This he did in as simple a manner as possible. He was really eloquent without any effort and we can well ponder on and profit by what he said.

How to get large crops from grounds that have been somewhat exhausted at a minimum of cost is the problem, and to succeed to any extent one must understand somewhat what is needed in the soil to produce a given crop, and then try to supply that want as economically as possible. The glass ranges of the station are being increased and there will be an increase later in the special crops grown under glass, and then the florist may hope to get special benefits, as do now the farmer and gardener. An after discussion took place, and many questions were answered by the doctor. A rising vote of thanks was given the speaker for his able discourse.

We had quite an attractive informal exhibition. Wm. Duckham had a fine lot of shrubs in flower as well as herbaceous stock and spring bulbs. Alexander Brown, gardener to G. Macculloch Miller, had a fine lot of antirrhinum and Alexander Michel had a fine lot of tulips, as did F. G. Neipp of Chatham. John Dunn, Wm. Wilscherg and Alfred Neipp were elected to membership. The next flower show will be held October 27-28 at Assembly rooms, Madison. The schedule is being revised by the executive committee. The club is to affiliate with the New York Florists' Club, on the occasion of its outing. A good time is anticipated. E. R.

PLATTEVILLE, WIS.—Wm. A. Schaefer reports that business has been good right along, especially at holidays and Mother's day. He will erect a new greenhouse 26x100 feet this summer.

HADDONFIELD, N. J.—John Brown of 31 East Main street disappeared May 15 and much concern is felt by his wife and friends at his continued absence. Mr. Brown had been in poor health for some time previous to his disappearance.

DE SOTO, MO.—G. M. Thost has torn down his old greenhouses on North Main street and erected a more modern plant in a better location. He is growing carnations and chrysanthemums for the St. Louis market and has had fine crops of late. Just now he is busy planting chrysanthemums. All his stock looks well, especially the young field carnations.

A FLORAL PILLOW.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. **CHICAGO AND NEW YORK, JUNE 5, 1909.** **No. 1056**

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

AMERICAN PEONY SOCIETY.

Sixth annual meeting at Queens, N. Y., June 8-9, 1909. C. W. WARD, Queens, N. Y., Pres.; A. H. FEWKES, Newton Highlands, Mass., Sec'y.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the every day florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue, as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Sweet Peas.

Late sweet peas under glass must be carefully looked after and kept growing as long as possible as it will be some time before the outside rows are ready. The root action has to be kept up and heavy watering and feeding are not good in this respect, but sufficient water and feed are necessary to maintain a vigorous growth, or the flowers will get smaller and poorer in substance right along. Some shading will be necessary, especially in small houses, but a very heavy shade robs the flowers of color and substance. The houses cannot, of course, be kept too cool now, plenty of air night and day being required. The principal need of the outdoor crop now is frequent cultivation between the rows. See that support is given in good time to late rows and, should there be any doubt as to the soil being good enough to carry the crop, mulch with good manure or give a good sprinkling of superphosphate and sulphate of ammonia.

Outdoor Plantings.

With the beginning of June, the danger of severe frost, sufficient to damage any stock planted outside, is practically over and the work must be rushed to completion as soon as possible. Those growers who have made good time with carnation and aster planting will have this all out of hand and can turn their attention to the tender stock. Dahlias are an important crop to many and, as their seasons in most localities is only too short, the plants that have been hardened and prepared as described in previous notes should be planted out without delay. Give the plants at least three feet between them both ways, and more between the rows if possible. Plant carefully, opening good holes with the trowel and firming the plants well; nothing is gained by rushing this part of the work. If the plants have been kept well supported the stakes in the pots can remain until planting is finished, but if these are small and insufficient a man should come behind the planters and stake and tie the plants. See that plenty of room is left in the ties, or, as the stems swell, the tie will bind and injure them. Water thoroughly and, after all are tied, loosen up the soil around the plants with a hoe and leave all tidy.

Forget-Me-Nots.

There is always a demand for a few of these flowers and a number of cuttings should be made now of the small side shoots that are crowding around the old plants. There are usually a few roots on these divisions and they may be set out now on prepared beds in the open at six inches apart each way. Give a good watering after planting firmly and if the work is carefully done hardly a plant will miss. Forget-me-nots should be given a good open position and delight in a moderately heavy and fairly moist soil. In a light rich soil they grow very freely at the start and make strong, sappy plants but are often attacked with mildew in hot weather. Plants that grow more slowly are more vigorous and usually escape. Cultivate the soil between the plants regularly until the ground is nearly covered and a fine lot of stock, suitable for planting in the benches inside in November or in sheltered beds outside, will be the result.

Tulip Bouton d'Or.

After the bulk of the yellow narcissi are over yellow tulips are in good demand and around Memorial day there is probably no better yellow kind in existence than the single Bouton d'Or. We have seen beds of this tulip this season that flowered abundantly last year, were simply left alone as far as culture was concerned and have produced a magnificent lot of flowers again this time, some of the bulbs that threw one flower last year producing five and six in some cases and averaging four this time. They were grown on light, sandy soil, not particularly rich or good and as a good many of the flowers retailed at two and three cents each there is certainly money in them. This is no fancy picture, but the actual results of leaving the old beds from last season, and growers who are thinking of throwing away the bulbs that have flowered may well think

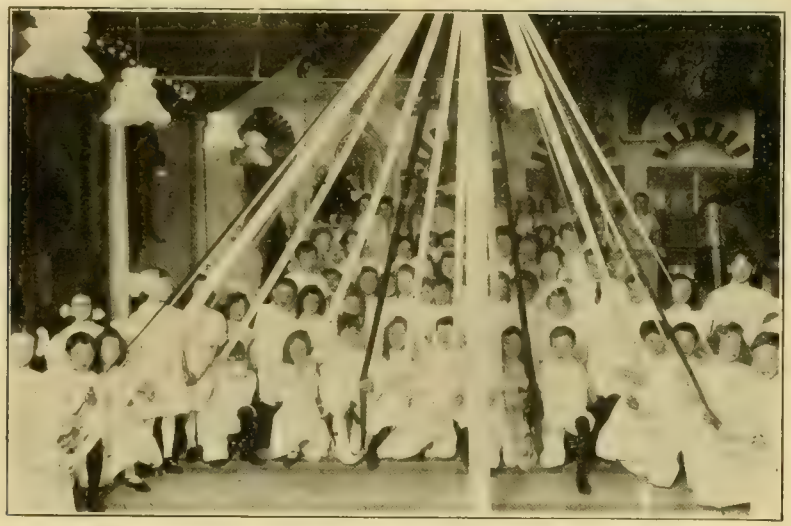
again before doing so. Bouton d'Or is a good bright yellow, the flowers stand up on good stems and, grown under these conditions, they last a very long time. A good succession of flowers is provided from the same bulbs, though the secondary ones may not be quite as good as the first. There are few places in which room could not be found for a few thousand of this and other good May flowering tulips. Planted at six inches apart the bulbs can be left two years at least, probably three, when they may be taken up, divided and replanted in fresh soil.

Bouvardias.

The summer outdoor quarters for bouvardias should be well prepared and it is better to defer planting a few days than to plant on lumpy, ill-prepared soil. The roots of this plant in the earlier stages are very fine and delicate and these need fine soil around them. While not recommending planting in very bleak, windswept positions the bouvardias must have plenty of air and should not be grown under the shade of trees. Distant protection by trees or buildings or by the natural conformation of the ground is all right, but free exposure to air is necessary to build up good, well consolidated growth that will answer to a little gentle forcing in early winter. The soil should be in good heart and any falling off in this respect must be made good by adding well decayed manure. Fresh strong manures must not be used as they force the growth unduly, and most of the varieties, especially those of the Humboldti and Jasminoides section grow strongly enough outdoors without this. From the first, pinching the shoots to form a bushy well balanced plant should be attended to. The shoots in the white varieties mentioned grow naturally more erect than those of the Vreelandi types, these being more spreading. But the former are very free growing so both must be given good room so that the air gets well around each plant. Plant firmly, water the plants home and, should the weather prove hot spray the heads regularly to keep green fly in check, and cause a free break. Owing to the constant manipulation of the growth necessary, bouvardias should be planted on beds about five or six feet wide so that the plants may all be reached without treading on the soil in wet weather.

Planting Chrysanthemums.

When the plants and benches are both ready the sooner the early chrysanthemums are planted the better. Some growers still persist in using soil that is of no value for any other crop for chrysanthemums, depending upon feeding afterwards with liquid manure to get depth and solidity in the blooms. This is wrong from all points. New soil cannot be provided for every crop, and these plants are long suffering in this way and give fair results in soils that would be useless for roses. But it is always better to use at least a part of new soil with the old. Manure, neither in the soil or later in a liquid form, cannot altogether make up for a deficiency in the soil; otherwise we might go on with the same soil indefinitely and use manures best suited to each crop. Practical growers know this to be a fallacious idea. When there are plenty of plants and long-stemmed flowers are needed it is better policy to plant two or three in each station at one foot apart than to plant single specimens closer. This leaves more room to cultivate between the plants in the earlier stages without damaging them. Never let the plants get hard and potbound before planting out, as they stand still in such cases and are losing time. The early kinds have only a short season to grow and everything possible should be done to prevent a check such as this entails. That old favorite, Ivory, is still one of the finest earlies. It may be planted closer than most varieties, owing to its small foliage and is always a profitable kind to grow. Virginia Poehlmann is a quick producer, stands close planting and is a fine globular flower when well finished. October Frost, Golden Glow, Pacific Supreme, Robert Halliday and Polly Rose are all good in their respective colors and these may all be planted now. After planting, the grower must be careful with the watering. There is no need of soaking the soil all over the bench, as there are no roots in it to take up the moisture and the only result is to make it sour and unfit for the roots to enter. On the other hand, if kept on the dry side a much better rooting system will result and the growth will be more satisfactory in every way.



UNIQUE ADVERTISING.

May Party Given in H. R. Hughes' Store, Chicago.

THE RETAIL TRADE

Unique Advertising.

Probably nothing more unique in the way of new ideas for popularizing one's place of business has been attempted than the children's May party given by H. R. Hughes in his store, 690 W. Van Buren street, Chicago, on May 15. The event was well advertised beforehand, and the fact that 16 of the best fancy dancers among the 10-year-olds of the neighborhood were to be selected by means of a competitive drill caused a vast amount of interest among the juveniles, and it was soon the talk of the neighborhood, old as well as young. On the eventful day the store was cleared and the 16 dancers took their places around the 10-foot May pole which had been set up. Some 82 children were the guests of the occasion. Refreshments were served and orchestral music helped to make more joyous the already happy children as well as attract the attention of some heedless passers-by. But there was really little need of this latter, as the gay scene was plainly visible through the broad show windows and naturally attracted the attention of such as had any eyes at all. All this time customers were waited upon with the same attention and courtesy as if nothing else were going on.

Decorated Hydrangea.

SEE SUPPLEMENT WITH THIS ISSUE.

The decoration of a pot plant in a manner that will get the best possible effect from it is not as easy as it looks. The retailer who treats all plants alike, with a lofty disregard of color, habit and general appearance gets through his work at a rapid rate. He ties nice little bows of red ribbon at equal distances over his araucarias and aucubas at Christmas, is patriotic and uses the national colors on Memorial day on all and sundry plants and never stops in his hustling career to consider such side issues as color contrast, suitable receptacles for various plants or small matters of this kind. But unfortunately for his peace of mind, discriminating customers see a better class of work in other stores and leave his establishment for those where this high standard is maintained.

For plants of more or less regular outline, like the hydrangea and Indian azalea a pot cover or hamper with a handle is a great aid to the decorator, for this may be lightly trimmed with asparagus or other trailer and a knot of chiffon or gauze ribbon be used, which has a very decorative effect, yet would be totally out of place if attached to the plant itself. Plants with a clean stem or with many stems, like the rambler roses, for instance, may have the gauze or any other description of ribbon attached and it will be an improvement if the colors are well matched or contrasted. Hydrangeas

look extremely well in some of the newer forms of birch bark hampers and pot covers, the silvery gray tint of the bark showing up the green foliage and pink flowers to perfection, neither detracting from the effect of the other. There is a boldness about the plant itself that, combined with the soft neutral tints of the birch and the flowers, is irresistibly attractive and one is drawn to such an effective plant when tired of the purely showy though telling varieties.

Regarding the mat pot covers, these form a cheap method of decorating azaleas and similar subjects. More care than is common ought to be taken to prevent clashing of strong colors, otherwise not much mistake can be made. These covers are very effective used for heaths (erica). A fairly tall specimen of E. melanthera is very attractive with a light bow of chiffon towards the top of the plant and a green mat cover, and the same may be said of E. Cavendishiana and even E. hyemalis, though the latter, owing to its somewhat pyramidal habit, does not lend itself so well to the ribbon method. The whole question of plant decoration, in short, resolves itself into finding the proper and suitable decorative material to use with the various plants and using sufficient of them to give a good effect, not enough to crowd the plants and detract from the beauty of what should be the principal attraction.

Wreath of Roses and Lilies.

Photography, no matter how good, never does justice to a colored floral design and although only a glance at the accompanying illustration is sufficient to show that it represents a fine floral wreath yet the beautiful color scheme does not appear. This superb wreath was the work of Geo. Wienhoeber of the Fleischman Floral Co., Chicago, and it was in his best style. It was mounted on a rustic easel of unpeeled rods and stood over six feet high. At the bottom of the wreath were deeply tinted flowers of Lilium lancifolium rubrum, these becoming paler and fading higher up into the soft rose pink of Mrs. Potter Palmer rose, the whole forming a beautiful combination of tints we have seldom seen excelled. Good, artistic work of this class, whether in small or large pieces, should be the aim of every retailer, for when once a name for it is obtained there will be no lack of customers willing to pay the right price for it.

WREATH ON EASEL BY FLEISCHMAN FLORAL CO., CHICAGO.

Mrs. Potter Palmer Roses, Lilium Lancifolium and Sweet Peas.

Memorial Day Flowers in Chicago.

The demand for wreaths and other memorial devices started in earlier than usual this season and on all three days, Saturday, Sunday and Monday, wagonloads of fine floral pieces could be seen going to the various Chicago cemeteries. Early on Sunday the latter were thronged with people and the amount of money spent was probably far ahead of that of last year. This at least is the opinion of the principal retailers, who are in a position to know. It is customary to grumble at the peonies on Memorial day, much as we are accustomed to see the faults in our best friends, and this season was no exception. But the grumbling took such widely divergent forms that it lost some of its power of influencing the writer. "They are cut too tight." "They have been in cold storage too long and will fall to pieces." "There is no variety," and other things were said about them, but when it comes to making up big wreaths at a moderate price it would be difficult to fill their place with anything one-half as good. In some of the best stores we saw some very beautiful flowers and, judging only by memory, we thought that they compared very favorably with those of last year.

There was a grand lot of stock of all kinds on the market and the retailers purchased heavily. Carnations were not as plentiful as might have been expected and the blame as usual was cast upon the wholesalers for shipping all the best of the stock out of town. Truly at such times the lot of the wholesaler is "not a happy one." When we go out of town we are told that the Chicago wholesalers "ship any old thing out here" and save the best for the home trade, where the retailers are made independent owing to the market being close. The finest carnations we saw anywhere were at the Ernst Wienhoeber Floral Co.'s, grown by Emil Buettner at Park Ridge. They were grand in stem and color, large and fresh. Gladioli are certainly in great shape this season. The fine Gandavensis hybrids are splendid in color, large and good in every way. The favorite America is seen but does not seem at all plentiful as yet. The Bride and Childsii are still to be seen but the larger varieties quite overshadow them now. Another popular Memorial day flower is the lilac and great bunches of fresh and beautiful flowers were seen on every hand. Some splendid wreaths were noted made of lilac over the very dark colored magnolia leaves, these combining great richness with simplicity in a very effective manner.

Everyone is delighted with the sweet pea this season. The Spencer types have been grand and they fill a blank for small flowers of moderate price that formerly existed after the violets were over. Not that the best forms have been cheap by any means, for they have held up well in price and must have given fine returns to the grower. The cape jasmines were late this time and the first flowers were poor, but these are coming in much better order now though the stems are still short. In bulbous stock there are still plenty of fine tulips in yellow, white and rose. The parrot tulips are beautiful but do not seem to take the fancy of the public much. They are fine in a mass but a vase of a dozen does not look so well as the same number of the ordinary varieties. Roses keep along an even keel. American Beauty is com-

ing in small but of very fair color. Richmond and Killarney are not as good as they were, but there are some very choice Kaiserin in. The pretty little Bon Silene was noted in characteristic form and color and Mrs. Jardine seems to be rising in favor. In novelties and small flowers there is a greater variety than usual. Marigolds, stocks, pansies, Narcissus poeticus, mignonette from the greenhouse as well as the wild form, apple blossoms and many other minor stocks give the retailer a chance to please patrons with a taste for something different to the ordinary, while orchids are used in increasing quantities in the best class of work, Cattleya gigas being again in full supply.

THE ROSE.

A GROWER who has handled many thousands of My Maryland says this rose does not root as freely as most other teas, but makes a big callus in the sand, and if the callused cuttings are potted they go ahead just as well as those that have formed roots.

A Few Words on My Maryland.

Having grown a house of My Maryland this past season, a few facts regarding it may interest readers. The house contains 2,500 plants and was planted June 15. Solid beds are used throughout and all grafted stock. We did not begin to propagate from the house until November, and after December nearly all the flowering wood was taken for grafting. Blind wood cuttings were used for own-root plants, three eyes being the average per cutting. This house gave us 50,000 scions for grafting, 25,000 own-root cuttings and the following list will show the number of flowers per month. No flowers were counted that were of such poor quality as to be unsalable.

July, 1908	10,673
August, 1908	14,219
September, 1908	12,033
November, 1908	6,883
December, 1908	3,797
January, 1909	3,151
February, 1909	2,021
March, 1909	10,476
April, 1909	10,406

There has been an avearage cut of 700 blooms per day thus far in May and the prospect of an increase on this, as the house is just coming into full crop. Looking over the cut by months, a falling off from the normal cut will be noted during the months we were using the wood for propagating purposes.

The question of own-root versus grafted we cannot argue, as our plants are all grafted. Without a doubt My Maryland is a wonderful rose. It is one which pleases the public and one which can be grown successfully providing it is given a little additional heat from November until April. If grown at 60° at night the flowers will be larger than if grown at 62°, but it seems safe to say that the rose should not be allowed to go below 60°. By permission of John Cook, I quote the following from his letter of March 6: "We have kept this rose on an average of 60° and we give it plenty of water and none of the plants have stopped growing the last five years." Roses are like rose growers, and we know better how to handle them after more experience with their individual peculiarities. WALLACE R. PIERSON.

American Beauty in the East.

American Beauty plants for this season's planting should now be growing vigorously in 2¼-inch pots ready to be shifted into 3-inch for from three to four weeks before planting in the beds. This, for the majority of the houses, should be by the end of June. In planting, they should be carefully selected, keeping plants of the same size and strength together. Plant out 12 inches apart in the rows with 18 inches between each row. Personally, the writer prefers solid beds with concrete walls eight inches high, leaving the plants in from two to three years, replanting one-third to one-half each year. If possible, a sod is manured very early in the spring and plowed as soon as fit to work. It is then cultivated every week until used, bone being added in the house.

Every effort is made to keep the plants growing from the time they are rooted until thrown out at the end of the season. Cutting is commenced when, in the judgment of the grower, the plants are strong enough to stand it, being careful to cut only from such plants as are growing well. All buds not to be cut are kept pinched before opening. As soon as the plants have taken hold of the soil, it is firmed down with a rammer, usually a piece of 1-inch steam pipe. The bed is then leveled and a light mulching put on to keep the soil cool and prevent drying out. Before this, however, the beds usually have been weeded twice. In the fall a little bone and soil are sprinkled on the beds, but generally no more manure is given until spring. ALFRED BURTON.

ROSE MY MARYLAND.

Points on American Beauty Culture.

In the course of a somewhat lengthened experience in cultural matters the writer has frequently been asked how to grow certain plants and, having expressed inability to explain thoroughly in a few minutes' conversation what it has taken a good many years of careful observation to learn, has possibly been thought uncommunicative. This by the way, but, apropos, we would say that no amount of teaching on paper can make a rose grower. To be successful, and to be sure of his ground the grower must be in practice for a few years as there are little things that crop up continually, seemingly unimportant, that make all the difference between success and failure. Success in culture is an elusive quality in any case, but by watching small things and carrying out the requisite details at the proper time and in the proper manner, keeping everything right from the start the grower at least will deserve it.

PROPAGATION.

American Beauty is nearly always grown on its own roots. There is no advantage in grafting the plants for this variety makes a sufficiently strong growth at all times and the principal advantage accruing from grafting is a good and vigorous start in life owing to the stronger rooting qualities of the manetti or other stock used for grafting on. Cuttings should be made of medium sized wood in a half ripened condition, young and green or old hard wood being unsuitable. A good length is about 3½ inches. Shoots much longer than this often fail to root freely while, if they are much shorter, the leaves get down on the sand which is not desirable. The constant watering will weigh the leaves down fast enough and in order to prevent this as far as possible the cuttings should be inserted in a slanting direction. With a stiff putty knife or a similar tool make a slanting cut in the sand and insert the cuttings with the leaf on

ROSE MY MARYLAND, GROWN BY A. N. PIERSON CO., INC., CROMWELL, CONN.

the upper side. Owing to the natural angle at which they grow the leaves will then stand almost or quite perpendicular, the best position. The sand must be made very firm and the cuttings well firmed as they are inserted. They should have more room than is generally given the tea roses, about 1½ inches apart in the rows being a good distance. As soon as a few rows are in give a thorough soaking of water and see that they are kept moist until rooted. The temperature of the sand should be 65° or thereabout, that of the house about 55°.

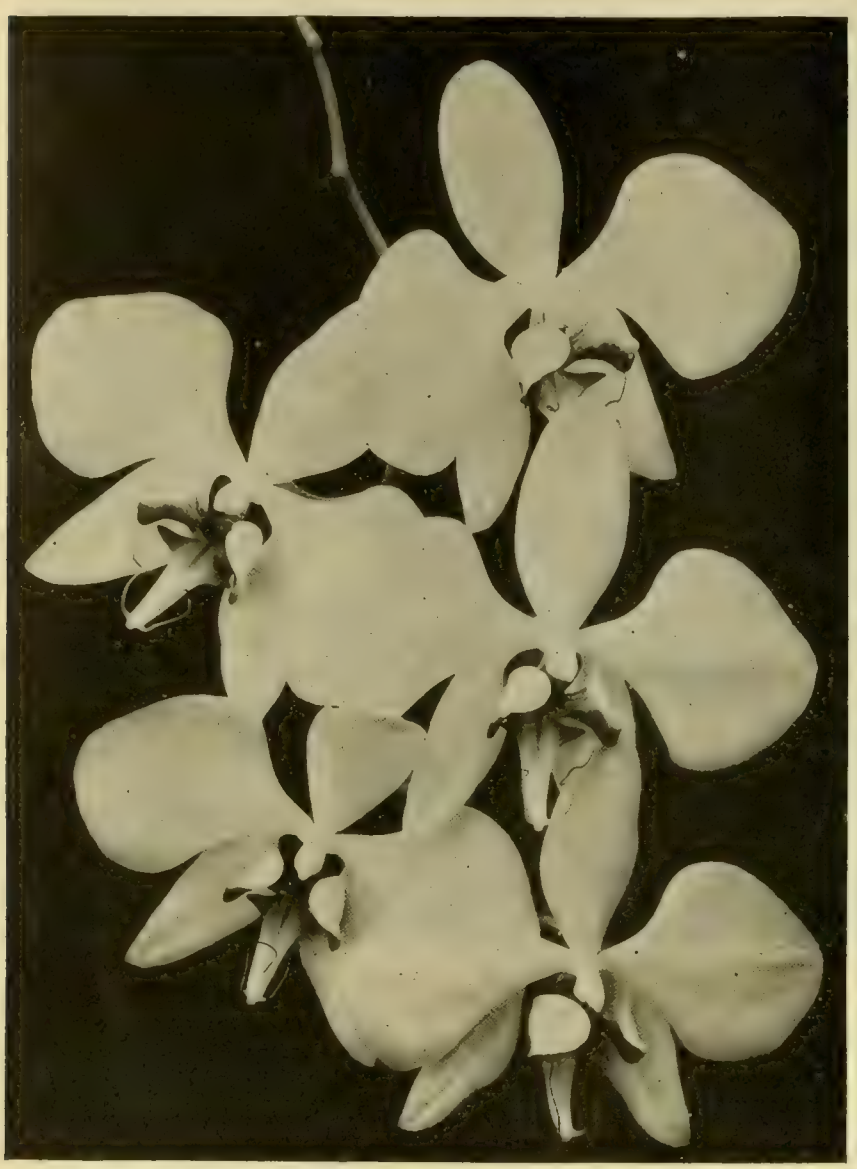
In about five weeks the cuttings should be examined and will by then probably be rooted, though 40 days or even more sometimes is necessary, much depending on the time of year. As to this, growers who raise large numbers of plants for shipping trade begin propagating as early as the middle of December and keep at it until the middle of March. But for home use or where only a moderate number of plants are needed it is better to wait until after the turn of the year, say the middle of January. They will then root more freely and the young plants will be less likely to receive a check than if rooted earlier. The aim of the grower right through the time the cuttings are in the bench must be to keep the leaves from wilting and to do this plenty of water is needed and, if the weather should be bright, light shading is also necessary. These few details carefully carried out should insure a good batch of rooted cuttings.

CARE OF YOUNG STOCK.

As noted above from 35 to 40 days should be sufficient time to root the cuttings and the young plants may then be potted into 2-inch pots. A few days of nursing treatment after potting, keeping the atmosphere around them a little close and lightly shading if bright, and the plants will be able to take care of themselves in an ordinary American Beauty temperature of say 60° at night with a crack of air on, except on the coldest nights. The success of the plants in the bench depends to a great extent upon how they are treated at this stage. Kept in a hot, moist house without plenty of air the plants will make very free and vigorous looking shoots and the inexperienced grower may imagine he has a fine lot of stock. But the class of wood that is being made under such circumstances is not the kind that is needed. It is soft and later on will be attacked by black spot or some other trouble. The wood that experienced growers like to see is hard looking, short jointed and the leaves feel rustling to the touch. The plants may not be growing very rapidly but they are growing into money and preparing for a successful career.

Even in the earliest stages, and all through the game American Beauty likes plenty of water, must have it in fact, but it is just as easy to overwater this as any other rose. Let the plants be looking for water before it is given and then give a thorough watering. Provided they are carefully selected for size when standing, then the plants in the ordinary way will dry out fairly even but this is a matter for the grower on the spot and if he sees that certain plants or certain parts of the bench are drying out quicker than others he will water accordingly. But the grower who is never satisfied unless his plants are always wet will not make a success as a Beauty grower. An occasional day's drying is good for any plant and as natural as watering and unless they get it plants get into a soft condition and ready, like children who are pampered and kept indoors, to take any disease that happens along.

About six weeks in the small pots will be long enough for the plants to become well rooted and ready for a move. With stock from cuttings inserted in January this will bring them ready in April and, if the benches can be spared at that time they may be planted at once from the 2-inch pots, thus saving the work of shifting into 4-inch. Even if they get a little hard in the pots it will do no harm. They must not be pot-bound and starved or they will be checked and it will take weeks for them to get over it. But for small stock that is to be planted out right away it is a benefit rather than otherwise for them to "feel their pots." If it is decided to repot then it should be done before the plants get hard in the pots or it will be difficult to keep the old ball of roots moist without saturating the new soil. By this it will be seen that it is necessary



PHALÆNOPSIS AMABILIS.

for the grower to make up his mind what he is going to do with his plants and do it, not be halting between two opinions while his stock is starving or drying up in the pots. Circumstances occur sometimes that upset the best calculations and the best laid plans are not always carried out, but the man who plans ahead, with the knowledge that by a certain date he will need so much room for his stock is the one who usually comes out on the the right side.

SOIL AND PLANTING.

In most cases the question of soil is not decided by the grower. He has to make the best of the soil that is to hand and improve it by adding to it whatever it may be short of naturally. A moderately heavy soil is best for roses of all kinds and the grower with such a soil at command holds a stronger hand than he with a light sandy or brashy soil through which water runs very quickly. Good cow-manure is the best fertilizer and, when the watering and other details of culture are well understood, this may be used in fairly fresh condition and large quantities, the amount depending entirely upon the soil. The preparation and composting have been frequently described in THE FLORIST, so we may consider that the soil is on the benches and ready for planting. Use plenty of help when doing this, so that the plants are not kept about on the bench to dry out in the sun. Plant firmly with a trowel at one foot apart along a line and set the plants just a little deeper than they were growing in the pots. Let the man with the hose follow close on the heels of the planters and if the weather is bright, spray the plants well overhead as well as watering the roots thoroughly.

AFTER TREATMENT.

Although when the plants are set and started to grow the grower feels a little relief, yet they still need care. The same care is needed as to watering and the same ample supplies of air are necessary. The water should be given around the plants only, not all over the bench, for the longer the soil can be kept on the dry side between the plants the better rooting system they will have. Plants always saturated with moisture may do well, apparently, during the summer and be a riot of green leaves and shoots but when the cool nights of September come around then such plants will be soft and will fall a prey to black spot. And while on this topic it may be well to warn growers against too frequent spraying. It is very tempting on a hot day when the rose plants seem to be asking for water to give them a good washing with the hose. And it is necessary occasionally. But the leaf of the rose is naturally protected from fungus spores, and constant spraying washes away this protection, leaving the leaf exposed to this danger. This, the writer is well aware, is debatable ground and he does not wish to draw any hard and fast line, but there is no doubt at all that the majority of growers of American Beauty spray a good deal too much in summer, with the result that their plants are not in condition to withstand any slight check in fall or early winter.

There are very few weeks in the year when some ventilation at least is not necessary, while during the spring and fall the houses should never be entirely closed except for violent storms. The air should always be kept moving, never stagnating, and then all will be well. During hot weather, of course, it is impossible to ventilate too freely and as long as the night temperature is around 60° all will be well along this line. Thus the summer season may be described as preparatory for the winter's work of the plants. They gather strength and stamina to sustain them during the dark days and only such plants as are well looked after and assisted to form a good root system by this careful watering can be expected to give a good account of themselves in winter. Regarding what growers term setting the buds this consists of running the plants a little drier and cooler for a week or two in advance of the time when flowers are needed. Only experience and observation of the effect of this treatment will make the grower sure of his ground but it is quite safe to let the plants go with half the usual quantity of water for a couple of weeks and drop the temperature to 55° for the same period, this having the effect of forming buds. But it is one of the details which beginners will be well advised to leave alone until they feel they have command of their plants and to experiment with carefully at first.

COMMERCIAL

May Flowering Tulips in England.

We have had a glorious week for prolonging the cut flower trade, cold at night and very dry. I am only naming two varieties which we are growing in acres both for bulbs, as also for the cut flower trade, which we do from the extreme west of England to north of Scotland. These are Golden Beauty or Boutoun d'Or (Lutea), the brightest yellow in cultivation. Among other good qualities is the long lasting in the bed. Picotee (Maiden's Blush) is white, with graceful recurved petals, margined rose. A very effective variety for all purposes, trade and private. From early morning in the bud until the sun opens them they present a very noble appearance. Men cut the blooms and women pack them, over 20 of the latter being so employed.

S.

ORCHID NOTES.

REPOT Cattleya gigas directly after flowering if the plants need this attention, as a flush of new roots usually occurs at this time.

Phalaenopsis.

MOTH ORCHIDS INCREASING IN FAVOR.

Recent importations in large quantities of the beautiful moth orchids, (phalænopsis) have served to bring this genus more into the limelight. As with so many other splendid orchids the simple life of the average commercial greenhouse and the haphazard methods of cultivation followed do not suit these aristocrats of the orchid community. Yet their culture is not difficult and if growers would only get out of the habit of treating everything alike and study the likes and dislikes of their plants a little all would be well. If Engish growers can get such splendid results as they do under the murky skies and in the fog laden atmosphere of the great cities, surely it is not too much to expect that with our clear air and brilliant sunlight we can at least do as well. It is simply a matter of attention and knowledge of the peculiarities of the plants.

Phalænopsis is a fairly extensive genus, but two or three species stand out head and shoulders above all the rest as beautiful and showy yet refined flowers. P. amabilis, P. Schilleriana and P. Stuartiana are three of the very best and a grower who possesses a good stock of these three kinds and their varieties may consider himself well equipped for entering the cut flower end of the business as far as moth orchids are concerned. We may say here, however, that we speak of P. amabilis as including such kinds as P. Aphrodite, P. grandiflora, P. Sanderiana and a few others that seem hardly entitled to specific rank though very beautiful varieties. In the culture of phalænopsis growers must constantly keep in mind their truly epiphytal nature. The roots must be clinging closely to something firm and substantial and there is nothing so good or so natural as wood. Were it possible to keep the atmosphere of the greenhouses constantly moist and charged with ammonia or some other indefinable element that is always present in a proper growing atmosphere and in the native habitat of these plants, then we would unhesitatingly say grow these orchids on bare blocks of wood, water them at the roots several times daily, keep up a high temperature, shade from bright sun only and all will be well. The nearer the grower gets to these conditions and the less he hampers the progress of the roots with moss, peat and other compost the greater his success will be.

Coming to detail, the most suitable receptacle for phalænopsis to date are the cylinder-shaped wood baskets. They have been in use for a number of years and are still the best. Unlike the root of a dendrobium or other orchid that likes to twine around small bits of charcoal and grow close together, those of a phalænopsis seem to delight in running in straight lines up or down a block of wood and the long rods of the cylinders allow of this. We are not saying that the plants will not do well in the ordinary basket, but have noted this peculiarity for many years and give this thought for what it is worth. The growing season for phalænopsis begins in early spring and finishes in autumn, but there should be no unusual excitement at the former or sudden drying off at the latter. The seasons should merge into each other as it were, for violent changes cause checks that are followed by the loss of leaves in winter and this means loss of strength to the plants. This leaf dropping, as it is termed, is the worst trouble to the grower of phalænopsis and, though any grower can induce the plants to put on good growth in summer, unless this is properly consolidated by a sufficient quantity of air, the forced leaves get loose at the axils and, at the turn of the year when growth is again getting active, fall off. But it is folly to think these plants cannot be grown. They are not even difficult to grow if the grower will consider their habits. All they want is reasonable care and attention to the requisite details. Then they need no more skill than carnations, roses or any other crop.

COMMERCIAL.

Miltonia Vexillaria.

A SHOWY AND BEAUTIFUL ORCHID.

Cattleyas have been, and still are, the most sought for, indeed one might say the only thing in orchids for the American cut flower trade. These and the Brazilian lælias, their compeers, have been well exploited and probably they will always be the most popular, for they are showy yet refined in coloring, large and may be produced practically the year around since the reintroduction of the old C. labiata. But there are signs that the up-to-date grower will have to look out for a variety in his stock of these plants as well as in other lines and it will be necessary for him to look out for other showy and fine flowering species that can be grown at a profit. We do not want small flowering species and botanical curiosities. There is no room for such truck in the business of the grower of orchids for cut flowers, beautiful and interesting though they may be to collectors and orchid fanciers. The man who is in the business for dollars and dimes must seek something that will bring them. The subject of the accompanying illustration is no novelty.

MILTONIA VEXILLARIA.

It has been before the public for many years, but it has, as far as the writer is aware, never been tried out as a commercial cut flower in America. Yet it is one of the most beautiful orchids in existence, as fine in flowering as the cattleyas, as easily grown by a grower who knows his business and a superb species in every way. It flowers but once in a season, it is true, and for this reason the flowers would not be available all the year around. Still by a little manipulation they can be cut for at least three months on end if a sufficient quantity of plants is grown, and this is as much as can be said of any species of cattleya. The color ranges from the deepest rose pink to nearly pure white, and the flowers last well in good condition if allowed to finish properly on the plants before being cut.

The culture of Miltonia vexillaria, as mentioned above, is not difficult. But the plants will not look after themselves in the way cattleyas do. Cattleyas grow and flower freely—for a time—with the most rudimentary kind of culture; they have few insect enemies and, unless the roots are rotted out with over supplies of water, they go on and flower annually for a number of years. Now with this miltonia the grower has to obtain clean plants and keep eternally after them to keep them clean, also to provide them with a good rooting medium and water carefully if they are to keep in health and flower freely any length of time. We do not wish to scare growers by a formidable list of what has to be done, for all these things are easy, but simply to point out the absolute necessity of keeping the plants right. Any grower who is not prepared to do this had better leave this orchid severely alone or he will be money out and in a surprisingly short time.

M. vexillaria is also known as Odontoglossum vexillarium, but odontoglossum is a name to scare those growers who have tried and failed to keep O. crispum and such like kinds cool enough to retain life in them, so we will stick to the better known and more suitable term. The species is rather a restless one. It grows more or less all the year around, consequently should never be severely dried. During the summer months it is impossible to keep the plants too cool. Shade the house or houses, dampen the floors and benches regularly and water and feed in accordance with the weather and the state of growth on the individual plants. In winter maintain a minimum temperature of 50° at night and reduce the atmospheric moisture. If this was all the growers' task would be easy, but thrips often upset the nicest calculations and this active little insect has been the ruin of more plants of this beautiful orchid than any other thing. If allowed it eats into the hearts of the young growth and simply paralyses it, makes white paths all over the pretty pink flowers and black unsightly patches in the growth. There is just one way and that is to prevent the insects from getting a hold by frequent fumigation and by dipping the plants regularly in a nicotine solution and spraying them afterwards. We have not gone fully into the details of culture, as outside these leading points they are much the same as for other orchids. But we would like to see such a beautiful species well and largely grown in this country. COMMERCIAL.

CHRYSANTHEMUMS

Benching.

For early blooms there is no time to be lost before planting. Such kinds as Glory of Pacific and its sport Polly Rose (Estelle), Ivory, both white and pink (the latter properly speaking is Agnes L. Dalskov), are all of dwarf growth. To produce fair length stems before the early buds appear they should be planted not later than June 10 and if they have been in the soil 10 days or more so much the better. To secure early flowers it is important to save the early buds. Those to be cut early in October should be disbudded from July 20 to August 10. From this it will be seen there is approximately only 60 days for the plants to make growth and set buds. Some varieties are fairly rampant, pushing their stems upward very rapidly, and soon fill the soil with roots. Of such Robert Halliday and October Frost

Chrysanthemum Virginia Poehlmann.
Grown by Komitsch & Junge, Secaucus, N. J.

are examples and will produce sufficient stem from now on.

Golden Glow seems to be in a class by itself. When planted in May it will produce good blooms soon after September 15 from early July buds or may be planted at intervals for succession and thus extend the flowering period to the end of October. We recommend this method to those who require a constant supply of yellow from the end of September to the advent of Col. D. Appleton, which is generally ready by October 30. When this system is adapted a continuous cut is assured by taking the first bud that appears, as the later plantings will not set bud until the bench is well filled with roots.

Cuttings of the midseason sorts should be put into the sand immediately so they will be ready about June 20. It is unnecessary to shift from 2-inch to larger pots; this labor can better be diverted to filling the benches. We would not advocate planting poorly rooted cuttings directly on the benches, but the strong growing sorts, if well rooted and the soil is friable, may be thus treated with good results if proper attention is given to watering and shading until they are established. They may be shaded by papers or by inverting a 4-inch pot over each plant; in either case the shading should be removed at night. The percentage of loss will be much less than the cost of establishing them in pots.

Whatever the condition of the stock, large or small, leave a depression around each plant to receive the water. It is best to confine the supply of water to the depression until the plants show signs of making rapid growth. Planting late does not bring about the desired results; some customers insist on having early varieties in their July shipments. It is true they will flower, but they cannot mature as early as those benched in May or produce as high grade of blooms. When we consider the disbudding should take place in July and August the fallacy of planting such kinds in July is apparent.

ELMER D. SMITH

To Be Done Now.

IN THE GREENHOUSES.

Pot Begonia semperflorens singly in 2½-inch pots and give them a stand at a good distance apart in a light house or frame.

Shade the late sweet peas and keep the moisture and feed going at the roots.

A lath house or a structure covered with linen or other thin shading material will form better growing quarters than the ordinary greenhouse from now on for araucarias.

Select enough stock of geraniums and other bedding plants for stock purposes and keep them back. It is folly to sell out clean and have to purchase later.

Pot on young smilax and asparagus and keep them moving. Pinch the smilax before it runs over the sides of the pots and gets tangled up with other plants.

Begin watering calanthes as soon as the roots commence to run in the new soil and increase the supply, as they take hold and grow freely.

Coxcombs should be kept in small pots until the color of the combs can be seen. Potted earlier the plants will be tall and ungainly before the combs appear.

Spread out the young Boston ferns and grow them on in a slightly shaded house with a moist atmosphere, but avoid spraying the plants overhead.

Plants of Begonia Gloire de Lorraine, Agatha and others of this section shipped in from a distance should be given a rather close and shady position until again established in the pots.

There is still time to root cuttings of geraniums for winter flowering, but no more time should be lost. The plants will have to be grown in pots right along and given good culture.

OUTDOORS

Watering is not necessary yet. Cold water slopped over young growing plants at the first sight of the sun is a great check to growth when it will do most harm.

If there are any more asters, stocks or other annuals to plant out, get them out without any more delay.

Thin the rows of beet and use any of the thinnings that may be necessary to make good in the ranks. Before planting them pinch off the end of the root.

Spray early, both to prevent fungus attacks by coating the foliage and also to check incipient attacks and insects.

Sow portulaca sowewhat thickly on any hot dry bank or similar place where it is difficult to get other plants to thrive.

Kochia scoparia may be planted now as a finish to shrubs, borders, or as

single specimens in small beds on lawns. The summer cypress, as this kochia is called, has a fine appearance all summer and turns to a beautiful color in autumn.

Kohlrabi may be sown now on good clean soil. When the soil is poor the growth is slow and the roots tough and stringy. Half grown roots are very good when properly cooked.

Keep after the young tomato plants. If they are to be grown to single stems pinch out every lateral on sight and keep the roots on the dry side until the first bunches of fruit are set.

Impatiens aurea, the native jewel weed, is fine for growing in damp positions in the wild garden, thriving either in sun or shade if the bottom is moist.

The Preservation of Cut Flowers.

SUGAR SOLUTIONS.

Sugar (saccharose) is the most highly recommended preservative. While certain flowers (lilacs, pelargoniums, lilies, sweet peas, nemophila, cephalaria, etc.) do not keep so well in sweetened solutions as in pure water, and while others (marguerites, Chrysanthemum lacustre, tulips, etc.) keep no better in such solution, a large number of varieties have their lasting qualities notably increased, sometimes even tripled. The great difficulty is to ascertain the strength of the solution required, which varies from two to 20 per cent, according to the species and even varying among the varieties of a species. Of all the flowers experimented upon, the linaria of Morocco appeared the most sensitive, being benefited by even a two per cent solution and most helped by one of 15 per cent or even higher. Pentstemon Hartwegi gave the same results. With Lychnis Chalcedonica, the keeping quality is prolonged by a 2 per cent solution, also by one of 10 per cent, but 5 per cent seems to be the most effectual. Experiments with 15 varieties of pinks have shown a 10 per cent solution to be the lowest limit and one of 15 per cent the most desirable. Experiments on roses have extended over 45 varieties and have shown the best results with solutions of between 7 and 10 per cent. Some sorts have even kept better with a 5 per cent solution, but this is too weak for most kinds, which show even poorer results than in clear water.

With the 35 varieties of chrysanthemums, the preference seems to lie between a 15 per cent and a 17 per cent solution; with orchids, between 10 and 20 per cent; with the solidagos, in the neighborhood of 14 per cent. Experiments have been less numerous with divers other flowers which benefit equally by the sugar solution. Trifolium rubens, Datisca cannabina, Achillea millefolium, Hibiscus Syriacus, Œnothera macrocarpa, Montbretia crocosmæflora, which keep better in a 10 per cent sweetened solution than in pure water. In the cases cited above, the sweetened solution has been used as the conserving medium. In another series of experiments, the flower stalk was allowed to stand for about an hour and a half in a concentrated solution of sugar, and afterwards placed in pure water and a 50 per cent solution was required to attain better results than the ordinary method. Pinks, roses, peonies, marigolds, Cerastium tomentosum, Deutzia crenata, Lychnis Chalcedonica flos-cuculi, Orchis mascula, maculata and Morio and the trifoliums, benefit more or less by this mode of treatment, while other flowers, such as violets, syringas, digitalis, aquilegias, aconite, Heuchera sanguinea, etc., do no better than in pure water. Generally speaking, this mode of treatment, though more economical, is less efficacious than that of keeping the flowers in the sweetened solution.

In case the keeping quality of the flower is not increased, this treatment is sometimes of advantage to flowers which deteriorate quickly in clear water. Iberis pinnata, for instance, becomes too long in pure water; in the sugar solution it remains shorter and the flowers of better color. Cerastium tomentosum, on the contrary, if tied in bunches and placed in the sugar solution becomes longer and more elegant and lasts about one-third longer. Also roses, pinks and peonies, cut in bud, are found to open sooner than in pure water, as is also the case when the stems are kept constantly in the sweet solution. In this latter case the size of the flower may be greatly increased; it is more than doubled in Linaria maroccana, whose inflorescence is far longer than in pure water, although the color is less intense. In the 10 per cent solution of sugar the lythrum, the red trefoil and the pink achillea open their flowers much sooner and better than in pure water.

SALINE SOLUTIONS.

Experiments were also made with nitrate, chloride and sulphate of potassium and nitrate and chloride of sodium. In general, when flowers lasted longer in comparison with the use of clear water, the results were still inferior to those of the sugar experiments. We saw that the use of sugar hastened the development of roses; chloride of sodium had the same effect; chloride of potassium on the contrary, delayed the development. One hour in a 10 per cent solution of chloride of sodium had unfavorable results or none at all in many plants, such as iberis, saxifraga, aquilegia, snapdragon, pentstemon, iris, gilia, etc. It lengthened the duration of pansies, marigolds, scabiosa, etc. Roses and peonies opened more quickly; Scilla Peruviana and Ornithogalum umbellatum developed much better than in water. The same strength of nitrate of potassium hastens the unfolding of peonies and certain roses, the growth of Mimulus luteus and lengthens the marigold's life a little. It has no effect upon pansies, digitalis, marguerites, Iris Germanica, pinks, Eschscholtzia Californica or potentilla. The 10 per cent solution of bipotassic phosphate is without effect upon roses and carnations, eschscholtzia and anthemis; it is useful to mimulus and orchids, especially Orchis mascula.

This same dose of 10 per cent of chloride of sodium (salt) is superior to bipotassic phosphate for Scabiosa arvensis, Lychnis Chalcedonica, and even to the 50 per cent sugar for bleeding hearts and ornithogalum, while in general the sugar has a better effect than any of the salts tried, even on the orchids. Salt, however, gave interesting results with lilies and pelargoniums, which are not affected by sugar, and it also hastens the unfolding of nymphæas and roses. The bipotassic phosphate seems to us at present to be the best preserving medium for orchids; the period of Orchis laxifolia is doubled in a solution of one-ten-thousandth.

VARIOUS SOLUTIONS.

The combination of sugar and phosphates gave good results in the keeping of chrysanthemums and orchids. Chrysanthemums did particularly well in a solution of 15 per cent sugar and .0001 phosphate. Chloral added to the 10 per cent sugar solution in proportion of from .001 to .0001 produced an excellent effect on orchids and linaria. On this latter flower the best proportion of sugar alone is about 15 per cent, but the addition of chloral to this amount is harmful. On Lychnis Chalcedonica the chloral seems to counteract the sugar. Alcohol added in the proportion of 10 per cent acts remarkably well on certain flowers such as primulas and the composites; however, if the flower develops slowly and lasts a long time the part of the stem submerged in the solution is soon withered and made useless.

Glycerine is useful in the proportion of one per cent for daisies and forget-me-nots; two per cent for lychnis; four per cent for linaria. A short immersion in a 50 per cent solution with glycerine gave less good effect than a similar use of sugar. The action of various salts now recommended as stimulants to plant growth has been studied. Chloride of cæsium acts well on marigolds; sulphate of manganese on columbines was better than chloride of cæsium; fluoride of potassium about the same. Finally, sulphate of manganese .0001, added to a 12 per cent sugar solution, gave good results on lilacs, which responded to neither of these reagents alone; the blooms enlarged, the color shaded more pink and kept a remarkable freshness. Among the violent poisons, suiphide of mercury prolongs the life of iris, anthemis and dicentra; black oxide of copper and arsenate of lead have the same effect on marigolds. These experiments have given results that are sometimes exact, sometimes uncertain, but have shown definitely that no one preserving medium can be advised for various sorts of flowers, nor can the strength of a solution be ascertained that will apply generally. It is only ascertained that the use of sugar and some other substances, especially salt, bipotassic phosphate, chloral and sulphate of manganese, in proper proportions, prolong the life of flowers to an extent that will pay for the expense; also that the effect on color and in hastening or retarding the unfolding of the bud is not without practical interest.—Revue Horticole.

OBITUARY.

Joseph Mason.

Joseph Mason, who for years published Mason's Monthly in the interests of horticulture, died at Vineland, N. J., May 24. He was born in Essex, England, 79 years ago. He went to Vineland 37 years ago and has been one of its leading citizens, being mayor for two terms. He was an indefatigable worker in the interests of horticulture and floriculture and did pioneer service in beautifying Vineland.

Julius Friedlander.

Julius Friedlander, an old time florist of New York, whose store was in Times square 30 years before this name was applied to it, died May 25 at the home of Walter Gantz, 124 West Fifth street, Bayonne, N. J., of cancer of the stomach. He was 56 years old and leaves a widow, two married sons, three brothers, and a sister. The latter is Lottie Abeles, wife of Edward Abeles, the star in "Brewster's Millions," and herself a member of the company. Mr. Friedlander's mother is still living at the age of 86, in Norwalk, Conn. Mr. Friendlander's father, the late Ludwig Friedlander, opened a florist's shop at Broadway and Forty-eighth street in 1868, and it was never closed until illness forced the son to give up the business in the fall of 1908. Mr. Friedlander was little more than a boy when his father's business was established. There was then a small structure with a fence around it on the site of the Times building. There were many fine private estates in the vicinity. The owners of these places, long ago displaced by business blocks, were liberal patrons of the Friedlander flower store.

SOUTH HADLEY, MASS.—Joseph A. Beech has sold his house to Joseph Champagne.

THE AMERICAN FLORIST

1885 TWENTY FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

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THE Illinois legislature, both house and senate, have confirmed the appropriation for the florists' experimental work at the Illinois University, $15,000 for the coming two years. Friends of the work wanted $35,000.

THE seventeenth national irrigation congress meets in Spokane, Wash., August 9-15 next, for the consideration of and action on irrigation, drainage, forestry, deep waterways, good roads and home building. The motto of this association as printed on its literature reads: "Save the forests, store the floods, reclaim the deserts, make homes on the land." This shows the importance of the congress.

SEVERE hailstorms are reported from various points in Pennsylvania, but florists apparently escaped much damage. Much fruit was injured.

WE would remind our readers that good clear photographs of brides' bouquets, table or church wedding decorations or other good work of any description are always welcome.

ALTHOUGH reports are by no means complete Memorial day business seems to have been very satisfactory along all the principal lines. Plenty of good stock was on hand in most cases, carnations being the shortest item.

BRITISH growers of sweet peas are holding out the hand of friendship to growers in this country and much good should result in the matter of clearing up the synonomy and other matters relating to this important flower if specialists in the two countries combine in their efforts along this line.

EXPERIMENTS by the Department of Agriculture tend to show that there is little difference in the effect, as a spray, of Bordeaux mixture, factory-boiled lime-sulphur solution and self-boiled mixture, the little difference there is being in the rotation above given, the Bordeaux being the most effective.

THE twenty-sixth annual report of the board of park commissioners of Minneapolis, Minn., is a finely got up book of 96 pages the cover having a pretty scene in Mississippi park printed in colors. There is an excellent portrait of the Hon. Jesse E. Northrup, president of the board and many other illustrations showing pretty spots in the various parks, new buildings and other interesting things as well as a full report of the work done and in hand by the president and by Superintendent Wirth.

THE premium list of the sixth annual exhibition of the American Peony Society, to be held June 8-9 at the Cottage Gardens, Queens, N. Y., is to hand. In the commercial classes there are 27 prizes ranging from $15 to $5 for collections and individual varieties, while in the amateur classes there are 14, ranging from $5 to $2. Entries must reach Manager R. T. Brown, Cottage Gardens, at least two days before the exhibition opens and all express charges on exhibits sent must be prepaid. Consignments must be sent addressed Cottage Gardens Co., Queens, Long Island, N. Y.

The Way the Wind Blows.

Mark Twain says the wind blows from the north, or the south, or the east, or the west, or some point approximating in those general directions.

In a contemporary a gentleman gives a testimonial, and the writer of the introduction says, in part: "A man whom no inducement would influence to write such a testimonial unless every statement was unqualifiedly true." Perhaps the writer meant well, but the words have a strange ring. Florists as I have found them are a straightforward class of men, and as a whole are head and shoulders over the average business man or tradesman. In all my dealings with the florists of this country I have yet to find one case of graft or dishonest dealings. Honor and square deals are what have been handed out to me and others I have known. It looks from this distance that every man who writes a testimonial would have to go before a justice of the peace and take a solemn oath that what he had written was true, and it places anyone who has written a testimonial under suspicion of having had some inducement passed along to give his opinion or views. Cut out all this nonsense.

I see my friend Badgley gave an interesting lecture on roses. The rose men must be getting educated these days. The old saying, "Old men for council and young men for war," seems to have passed, as our young men growing up in the business seem to have a firm hold on all things pertaining to their calling in the various lines of horticulture, but I cannot understand what friend Badgley means when he says: "As selling cut flowers through a commission house or otherwise should be watched as closely as the fires in the boilers." I think it would be a good thing for the various clubs where lectures are given to have an official report of the proceedings, questions put to the speaker and answers, as there are points brought out only those that are at the meetings know anything about.

The elements these days and carelessness are certainly working great havoc amongst greenhouse men. It seems a pity that in a few minutes the florist can lose everything he has. Perhaps the savings and hard work of a lifetime are swept away, and often the owner is at an age when the stamina for hard work isn't so ready as was the case years ago. I know of no trade or profession where there is more risk, worry and brain power needed than there is in ours. Let us hope that the events just passed and the losses entailed by our brothers in the west and Canada never again may be repeated. RAFFIA STRINGS.

Florists' Hail Association.

The following losses have been adjusted by the secretary of the Florists' Hail Association since May 5, 1909:

S. R. Faulkner, Omaha, Neb.	$ 166.60
E. A. Barnhart, Clinton, Mo.	40.50
E. J. Larimer, Herrin, Ill.	18.41
H. Meyers, Council Bluffs, Ia.	37.90
J. R. Elder, Sioux City, Ia.	257.80
T. J. Olsan, Ames, Ia.	75.70
G. Sorenson, Florence, Neb.	19.50
Wm. Stolba Floral Co., Cedar Rapids, Ia.	15.61
M. K. Bishop, Sioux City, Ia.	21.00
Wm. Goos, Davenport, Ia.	6.30
J. T. Temple, Davenport, Ia.	100.24
Hess & Swoboda, Omaha, Neb.	2,209.13
Blackman Bros., Nevada, Ia.	156.76
A. Woerner, Clinton, Mo.	10.64
C. Ederer, Omaha, Neb.	1,627.50
Herman Roth, Lafayette, Ind.	293.34
John Steidle, St. Louis, Mo.	21.25
Hagerman & Carter, Oklahoma City, Okla.	77.83
P. B. Floth, Omaha, Neb.	547.96
Paul Paulsen, Omaha, Neb.	557.25
J. E. Mathewson, Sheboygan, Wis.	200.78
Hagerman & Carter, Oklahoma City, Okla.	914.10
F. Keuchenmeister, Wichita, Kan.	12.58
R. Koeppen, Springfield, Mo.	17.60
Stiles Co., Oklahoma City, Okla.	1,818.60
J. H. Temple, Olathe, Kan.	7.55
Pioneer Floral Co., Springfield, Mo.	92.50
Geo. Zimmer, Omaha, Neb.	269.50
Palmer's Greenhouses, Cherokee, Ia.	43.85
Mary Bliss, McPherson, Kan.	11.40
L. H. Reams, Council Bluffs, Ia.	92.25
J. W. & E. E. Arnold, Omaha, Neb.	206.92
A. Grofert, Kalamazoo, Mich.	77.00
F. Keisel, Lafayette, Ind.	12.53
R. Frow, St. Louis, Mo.	11.55
Greenville Bros., Omaha, Neb.	315.14
John R. Lomas, Dallas, Tex.	18.40
B. Jacobs, Canton, Ill.	82.99
Fred Dorner, Lafayette, Ind.	520.49
Chas. A. Simonson, McPherson, Kan	15.50
B. F. Schilling, Lafayette, Ind.	34.10
T. C. Hemphill, Wichita, Kan.	30.98
G. A. Thomas, Sioux Falls, S. D.	28.28

Meetings Next Week.

Butte, Mont., June 11.—Montana Florists' Club, Columbia gardens.

Chicago, June 9.—Gardeners' and Florists' Union No. 10615, 10-12 Clark St.

Cincinnati, O., June 12, 8 p. m.—Cincinnati Florists' Society, Jabez Elliott Flower Market.

Davenport, Ia., June 10.—Tri-City Florists' Club.

Dayton, O., June 7, 8 p. m.—Dayton Florists' Club, 37 E. Fifth street.

Detroit, Mich., June 7, 8 p. m.—Detroit Florists' Club, Cowie building.

Grand Rapids, Mich., June 7.—Grand Rapids' Florists' and Gardeners' Club, Board of Trade rooms, Pearl street.

Hartford, Conn., June 11, 8 p. m.—The Connecticut Horticultural Society, County building.

Madison, N. J., June 9, 7:30 p. m.—Morris County Gardeners' and Florists' Society, Masonic hall.

Montreal, Que., June 7, 8 p. m.—Montreal Gardeners' and Florists' Club, Royal Guardians building, 211 Sherbrook street, West.

New London, Conn., June 9, 8 p. m.—New London County Horticultural Society, Elks' hall.

New York, June 9, 3 p. m.—Horticultural Society of New York, Botanical Garden.

Omaha, Neb., June 10, 8 p. m.—Omaha Florists' Club, City hall.

St. Louis, Mo., June 10, 2 p. m.—St. Louis Florists' Club, Bowman hall, 1023 Locust street.

Winnipeg, Man., June 10.—Winnipeg Florists' Association.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—Grower of roses, carnations 'mums and general stock; designer and decorator. Address
Key 825, care American Florist.

Situation Wanted—By first-class, experienced and competent rose grower; 35 years old; $18 per week. Address
Key 820, care American Florist.

Situation Wanted—Gardener and viticulturist good references; married; wishes position; prefers private place. Address
Key 818, care American Florist.

Situation Wanted—Good grower and propagator; well up in all greenhouse work; strictly sober; good references. Address
Key 823, care American Florist.

Situation Wanted—By a young married man; grower of roses, carnations and 'mums, also designer; best references. Address
Key 819, care American Florist.

Situation Wanted—As foreman and grower of high grade roses, carnations and general stock by a married man, highest recommendations as to ability. Key 814, care American Florist.

Situation Wanted—By experienced grower of roses, carnations, violets, chrysanthemums, decorative and bedding plants; middle aged, single, sober; state wages. Address
Key 822, care American Florist.

Situation Wanted—Competent grower of carnations and chrysanthemums with general experience in greenhouse work, wants position in commercial place. Address
Key 817, care American Florist.

Situation Wanted—By sober, young man; 24; experienced as rose carnation and 'mum grower; capable of taking charge of section or commercial place; kindly state wages. Address
Key 824, care American Florist.

Situation Wanted—As foreman on good private or commercial place; thoroughly experienced both with greenhouse and out-door work; good references; age 35; English.
Key 815, care American Florist.

Situation Wanted—By first-class cut flower grower; capable of taking charge; roses and carnations a specialty; highest references as to ability etc.; West preferred. Address C. W. W.,
2613½ First Avenue, Seattle, Wash.

Situation Wanted—By practical all-'round man; inside or out; private or commercial; eight years in last position; married; English; 25 years' experience on private and commercial places. Address Key 821, care American Florist.

Help Wanted—Experienced gardener; good pay and steady position for good man. Call at 3116 Indiana Avenue, Chicago.

Help Wanted—Helper in roses and carnations, young man preferred. Address
JOHN N. BOMMERSBACH, Decatur, Ill.

Help Wanted—Rose and carnation grower, on a first-class up-to date place; must be temperate; state experience and wages. Address
Key 808, care American Florist.

Help Wanted—A good grower of pot plants and general stock; good at bedding and lawn work; married man preferred. Address
Key 826, care American Florist.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address
Key 849, care American Florist.

Help Wanted—Young man in mail order department of a large catalogue house; must be a good potter and able to water; state experience and salary. Key 809, care American Florist.

Help Wanted—A florist experienced in growing 'mums, roses and carnations; to take charge of 4 000 feet of glass, must be single and sober; send reference and wages wanted. Address
Box 632, Pullman, Wash.

Help Wanted—Working grower foreman 30,000 feet of glass; roses, carnations, 'mums and some pot plants; western man; will pay best wages to competent man. Address
Key 812, care American Florist.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist.

Help Wanted—Reliable florist and gardener for general stock; must be capable of taking charge; good place for the right man; state wages wanted and experience; single man preferred.
WM. WEAVER, McAlester, Okla.

Help Wanted—A first-class grower of roses carnations, chrysanthemums and a general line of potted plants for the retail trade; send references; position open now; good wages.
HUBBARD'S SEED HOUSE, Topeka, Kans.

Help Wanted—Reliable traveling salesman to work market gardener trade also to work in store, must have a thorough knowledge of the seed business; good references required.
J. F. NOLL & CO., 115 Mulberry St., Newark, N. J.

Help Wanted—A competent young man single, one with a knowledge of carnation and rose growing, and general retail greenhouse work, give reference also state wages with room and board.
H. S. CRUIKSHANK, Florist, St. John, N. B., Can.

Help Wanted—Experienced man in shrubbery and herbaceous department of a large commercial place; must be experienced and thoroughly reliable; strictly temperate; give full particulars with salary wanted. Address
Key 810, care American Florist.

Wanted to Lease—With option of buying; greenhouses with from 15,000 to 30,000 feet of glass must be in good condition and well stocked; middle or middle western states preferred.
Key 811, care American Florist.

For Sale—A valuable greenhouse property in a good town; no competition; ill health.
DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—Greenhouse property; 10,000 feet of glass; ideal location; write for particulars to
Box 114, Lansing, Mich.

For Sale—$500 will buy the only greenhouse and florist business in one of the best counties of Illinois. Possession given after June 15. Investigate this bargain without delay. Address
Key 806, care American Florist.

For Sale—Greenhouse business in the city of Toronto, Ontario, as a going concern; fully stocked; 20,000 square feet of glass, modern construction. Apply promptly
ROBERT W. KING & CO., Agent,
248 Wellington St., Toronto.

Foreman Wanted.

Grower who has been successful with plants as well as cut flowers; must be strictly reliable and sober; state past experience, salary expected, etc. in first letter. Address

Key 816, care American Florist.

WANTED.

Nursery Foreman.

Permanent position for right party. Must be well up on growing high grade ornamentals, and a good handler of men.

Landscape Foreman.

Experienced in carrying out landscape work and familiar with ornamental stock.

The Elm City Nursery Co.

NEW HAVEN, CONN.

The Season is Late

AND THERE IS STILL

HEAVY DEMAND FOR

BEDDING PLANTS
WINDOW BOX PLANTS
PLANTS FOR VASES

Advertise Your Surplus Now.

Forcing Bulbous Stock in the South.

A paper read before the New Orleans Horticultural Society by Richard Eichling.

The methods of forcing and growing of the various bulbs hereafter mentioned are only adaptable at a latitude of from 31°-29°. The storing of the bulbs after their arrival is very important. The most suitable place is a well ventilated dry room provided with sufficient shelves alongside the walls. In case of severe cold weather, a safeguard against freezing must be provided for. In placing the bulbs on the shelves, make not more than five layers to prevent them from getting heated and keep a watchful eye on the stock during winter and especially towards spring to discard all the softened and spoiled ones.

Roman hyacinths and Narcissus Paper White, Trumpet Major and Von Sion can either be planted in the regulation bulb boxes for early forcing or in the cold frame in parallel rows half an inch apart from side to side and one inch apart from top to bottom with a covering of an inch and a half of soil. Cover the frame with boards in such a manner that the rain may run off. After the growths are about four inches above the soil, remove the boards and replace with well fitting clear sash. Ventilate according to the temperature; a board covering during frost is sufficient.

HYACINTHS AND NARCISSI.

Miniature Dutch hyacinths and Narcissus Trumpet Major and Von Sion grown in a cold frame will yield very satisfactory results, saving time and money. Hyacinth and narcissus bulbs planted in boxes should be placed in a shaded spot, free to the north winds; covered with charcoal, dust or light soil about four inches thick. As soon as the growths appear above the surface, bring the boxes inside and force them according to needs. If overstocked, bring the flowering boxes in an airy, cold and well shaded place and water sparingly between the rows; the cold frame stock in such a case shade with trellis shutters. From the time the bulbs are planted, either in boxes or in the cold frame, never allow them to get dry.

Freesia refracta alba and candidissima, the last named a new pure white variety, should not be planted before the middle of September in boxes, the cold frame or in the open ground. With the cold frame process, I obtained the best results, saving time, had fine, long stemmed flowers in season and found that the bulbs had greatly increased in number. Freesias planted in boxes should have a watering of liquid manure once a week after the buds are formed until in bloom.

CALLAS.

Callas can be profitably grown in pots, raised benches or solid beds. If grown in pots, one and one-half to 2-inch sizes are good enough, but for the cut flower trade two to two and a half inches are better. For the former use a 6-inch pot and for the latter a seven or 8-inch as the size of bulb demands. Crock the pots well, use a medium rich soil and plant so deeply that only the tip of the bulb protrudes above the rim of the pot. Put the potted bulbs in a cool house under the bench and water well. Keep them somewhat dry until partly rooted and the growths are from six to eight inches long, then place the plants on the bench about eight inches apart from pot to pot both ways. Give them a layer of old cow manure, a free supply of water and during sunny weather a frequent syringing. Renew the manure layers occasionally and as soon as the plants have about four to five well developed leaves water once a week with liquid cow manure. Never allow more than four to five leaves on the plant, as each additional one takes part of the strength from the plants as well as from the flowers.

Callas grown on the bench or in the solid bed should be provided with a good drainage, the soil made somewhat richer than for potting purposes. With the watering be more careful, the moisture will remain longer and the danger of the plants to rot off is greater. When in full growth, feed in the same way as is done in pot culture; likewise cut off all unnecessary leaves. Plant the bulbs neck deep and from eight to ten inches apart. Use a well ventilated house and give a night temperature from 55°-60°. It is best to plant fresh bulbs every season; carried over stock will not even justify the labor of potting or planting.

EASTER LILIES.

Lilium Harrisii and L. longiflorum giganteum are real money makers when successfully grown and brought in the market at the proper season, especially at Easter. Success depends a great deal on the condition of the bulbs and the proper house after the plants are about one foot high. As soon as the stock arrives, it should be planted and placed either in a cool house under the bench or in a deep cold frame and in the latter instance covered with boards. Crock the pots well, use a little old cow manure on the bottom, which will help the young growing plants considerably, and have the bulbs covered with one and a half inch of soil, which allows the top roots to get a good hold and adds to the feeding of the plants and buds later on. Any good half rich loam will do for potting. After the growth is about three inches long, take the plants from under the bench or cold frame and place in a cool, half-shaded house or frame for about 10 days to get the plants accustomed to the light and to stiffen up. After that, grow them on in the open cold frame until it is time to bring them inside for forcing and expose those growing in the house to the full sun.

Water carefully pot by pot only what is getting dry after the bulbs are planted, but never let them get dry after the plants have once a good rootball and on sunny days syringe the growing stock well. Plants about two feet high can easily be brought in the forcing house under a night temperature up to 75°, but keep the plants always well syringed. Give a manure watering once a week until the buds begin to show color. It is advisable to harden off all plants partly in bloom, and not used immediately; in a cool, shaded house the flowers open slower and will last longer. If there is no facility for cold storage, make arrangements with your shipper to send the bulbs on at your own convenience, because lily bulbs, even if taken out of the boxes, will not keep as well as hyacinths or narcissus in our southern climate.

JAPANESE V. BERMUDA BULBS.

On account of the scarcity of pure undiseased Bermuda stock, the Japanese Lilium longiflorum giganteum has to a great extent taken its place. These bulbs, free from any disease, grown in the same manner as the Bermudas, and kept during winter in cold storage, can be planted in a cold frame as late as the middle of April, giving a fine crop from the end of May until July.

Of the spring and summer flowering Japanese varieties, I have found L. lancifolium album, roseum, rubrum and auratum the easiest to grow, ready sellers as pot plants and very useful as fancy cut flowers. Plant fresh stock during the winter months; a late planting may not give the expected results. I would not recommend the planting of cold storage bulbs of any variety during summer, because they bring only from one to three flowers and a great many lose their flowering germ entirely. Northern cold storage stock of Lilium giganteum for early winter is all right.

VARIOUS BULBS.

Iris Hispanica cannot be highly enough recommended as a prolific bloomer. Plant the bulbs at the middle of October in the open ground, in medium rich soil, one inch and a half apart in the rows and about five inches from row to row and cover them a little over an inch with soil. Give a good watering after planting, keep the bulbs partly dry in the beginning, but, as soon as the growths start, do not allow them to get dry. The flowering season lasts from the middle of March until the middle of April, which

Fancy and Dagger FERNS $2.50 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1 25
Leucothoe Sprays.....$1.00 per 100; 1000. 7.50
Boxwood.....35c per bunch; 50 lbs.. 8 50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.
15 Province St. and 9 Chapman Place, BOSTON, MASS.
WHOLESALE COMMISSION FLORISTS
Hardy Cut Evergreens and Florists' Supplies
We have the stock and can fill all orders, large or small.
New Crop Fancy and Dagger Ferns, $2.00 per 1000.
FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

E. A. Beaven
LOG MOSSES
Natural and Perpetuated.
Special prices for quantity lots for future delivery.
EVERGREEN, ALABAMA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns. Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK

New Crop Ferns
FANCY and DAGGER ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
Evergreen, Alabama.

John P. Scherer, 636 Gardener St., Union Hill, N. J.
Telephone 328 L Union. Smilax, Ferns, Palm Leaves and all kinds of Green Goods.

For Commencements, Weddings
AND GENERAL WORK

We Shall Have an Immense Stock of Beauties. Roses and Carnations. Roses Very Cheap.

We Have a Large Range of Glass Planted Especially for Summer Flowers.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$2 50 to $ 3 00
20 to 24 inch	2 00
15 to 18 inch	1 50
8 to 12 inch	1 00
Shorter stems	$ 50 to 75

KILLARNEY and RICHMOND.

	Per 100
Long and select	$8 00 to $10 00
Good average lengths	6 00 to 7 00
Medium lengths	5 00
Short lengths	3 00

KAISERIN, MAID, BRIDE and PERLE.

Long and select	$8 00
Good average lengths	6 00
Medium lengths	5 00
Short lengths	3 00
Short Roses in not less than 500 lots, per 1000,	$20 00

CARNATIONS.

	Per 100
Fancy, long, Red O. P. Bassett	$3 00 to $4 00
White and Winsor	3 00
Enchantress, fancy	2 50 to 3 00

SWEET PEAS, pink and white, per 100	$ 50 to $1 00
LILY OF THE VALLEY, per 100	4 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, New Crop, per 1000	2 00 to 3 00

Bassett & Washburn,
Store and Office: 76 Wabash Ave. **CHICAGO.** **Greenhouses: HINSDALE, ILLINOIS.**

often happens to be Easter time, when such flowers are most in demand.

Tuberoses, single, are the only ones to plant successfully and profitably in the south. The bulbs should be planted in rows during the month of March, either singly or in clumps, according to the stock and space on hand, in a rich soil with a facility to drain off during heavy rains. After the plants are growing, water well during dry spells and especially when they are in bloom. The flowering season lasts from July until sometimes the end of November, providing we have not too wet a spring or summer which proves always disastrous for tuberoses. The flowers of this species open freely and the spikes are more graceful than those of the double variety. Let the plants dry off when the season is over, dig them up and store them away in a cool, dry place until the shipping and planting season begins. Ranunculuses, anemones, double and single, tulips, double and single, Scilla Sibirica, crocus, Lilium candidum, etc., are not profitable to grow below a latitude of 32° because these bulbs require a more severe winter to get well rooted in order to produce good saleable flowers.

All Specialties
— FOR —
Garden Parties,
June Weddings and
School Exercises
Should Be Advertised Now

Drop Fertilizer Merger.

J. P. Morgan & Co., it was learned recently, have given up financing the proposed merger of independent fertilizer concerns, which has been in process of formation for several months. Morgan & Co. were to have taken a block of the new company's capital stock and to have supplied the combination with a large amount of cash.

It has been reported from time to time that certain companies which it was desired to include in the combination were not assenting to the plan, and these reports seem to some extent to be borne out by the fact that the financing of the merger was dropped by Morgan & Co. for the reason that the organizers were not able to fulfill certain conditions laid down by the bankers. It is not understood that any reopening of the negotiations with Morgan & Co. is contemplated.—Press Clipping.

President Taft Caught Stealing Flowers.

WASHINGTON, D. C., May 24.—President Taft and his aid, Capt. Archie Butt, were for a few moments in danger of taking a trip to the calaboose. An irate keeper of "Uncle Jimmie" Wilson's flower beds on the grounds of the Department of Agriculture caught them picking the flowers.

When the guardian of the grounds appeared he did not recognize the president and began to call him. The president cleverly turned the hue and cry against Capt. Butt and joined the watchman in giving him a lecture. When the watchman discovered who the large man was he stopped his talk. The president confessed the incident to the secretary of agriculture today and commended the latter's watchman service.—Chicago Tribune.

NEW CASTLE, IND.—Herbert Heller is in a very serious condition and his relatives are greatly worried.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75
	Per 100
Killarney, select	$ 6 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, se'ect	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	2 00
Good	1 50
Easter Lilies, short	8 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Valley	2 00 to 4 00
Daffodils	3 00 to 4 00
Callas	8 00 to 15 00

Asparagus Plumosus
Extra quality, per bunch..... 75c

Fancy Ferns, per 1000.....$ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing

Tacoma, Wash.

TRADE GOOD.

Business is good and has been right along. Stock seems to have been more plentiful than in past seasons and, generally speaking, of much better quality. The lead has been the carnation, the price of which has remained firm for good, fresh stock, although some inferior stock found a sale at reduced prices. Roses have come to this market in good supply and splendid quality. None are grown here worth speaking of, under glass, but our outdoor roses are always fine and this season has been so cool and backward that they have come along slowly, but with strong, clean growth, so that within another month there will be plenty of fine flowers in this immediate locality. At present carnations are rather scarce and with no other prospect for several months to come. The growers all plant tomatoes and take out the carnations every year, which causes a scarcity all summer and generally up to December. This season we find most places are going to grow the plants under glass all season and some have thriving looking stock in the benches now. Those who plant in the field have already finished and the stock is starting very well, when we consider it is rather a dry season. At every place we found bedding stock practically sold out, although we found H. W. Manike with some good stock on hand yet which may be considered good property, although he is anxious to turn it into the cash at every opportunity—he needs the room.

NOTES.

We have not seen any chrysanthemums planted yet, but at the Northwestern Floral Co.'s we found something worth mentioning in the way of a new sport of Mrs. Jerome Jones which is practically a constant bloomer with a fuller and better flower than its parent, of a pure white, crown tipped with a purplish tint in a beautifully delicate way. We saw a plant of it with half a dozen good 5-inch flowers on it that has been in bloom practically all the time for several months. It shows a good bud on every new shoot coming and every crown bud will bring a good bloom if left on. The habit is good, robust and strong with excellent stem and foliage that clothes it nicely well up to the flower. We call the attention of the specialists to it and hope it may get the place it deserves. As a regular fall bloomer it is fully up to the parent and probably easier to do.

It is said that on account of storage reservoirs being unfinished the city authorities are about to cut off the lawn sprinkling and it will prove a very serious thing for a great deal of newly planted stock as well as the new lawns just getting nicely started. We hope such a thing may be avoided, for this season the city should be at its best to show the beauties of the well kept residences in this city of homes.

A. A. Hinze is practically out of bedding plants of every kind and reports that he can hardly get enough carnations to supply the demand he has.

Much is going on in the way of landscape gardening and those who are engaged in that work are quite busy all the time.

TACOMA.

JUNE WEDDINGS
and School Closing Exercises

WE OFFER SOME VERY CHOICE STOCK

AMERICAN BEAUTIES

These are grown specially for summer use, and are the best Beauties that can be found on this market. Try them and be convinced.
Also extra good quality

Maid, Bride, Richmond, Killarney and Kaiserin Roses

We also offer **CARNATIONS**

of the choicest varieties, the quality of which is unsurpassed on this market.

SWEET PEAS

with us are certainly fine. We have them in the light pink or Enchantress shade, lavender, red, white, and navy blue, an excellent violet shade.

PEONIES

We have them in white, pink and red; the quality of them being **unexcelled.**

We can supply you with fine

Valley, Smilax, Asparagus, Adiantum

and all other stock in season.

Send in your orders and secure the BEST THE MARKET AFFORDS

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

—THE—
J. M. McCullough's Sons Co.,
Wholesale Commission Florists.
— CONSIGNMENTS SOLICITED. —
Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.

316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

Shibeley-Mann Co., Inc.
WHOLESALE DEALERS IN
FLORISTS' SUPPLIES and Cut Flowers
1203 Sutter St., SAN FRANCISCO, CAL.

Killarney Extra Select Fancy. Coming in large supply; splendid quality; $2.00 per doz. for

American Beauty to $20.00 for the Extra long. in large supply; fine quality; $3.00 per 100

Peonies Our local growers are just coming in. The supply is large and the quality fine.

Carnations In large supply. **Fancy Valley** always on hand. Send for our weekly price list unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago.**

PRICE LIST

A Large Supply of Good Stock in All Lines :: :: :: :: :: ::

American Beauties

	Per doz.
Long stems	$3.00
30-inch stems	2.50
24-inch stems	2.00
20-inch stems	1.50
15-inch stems	1.25
12-inch stems	1.00
Short stems	.75

	Per 100
Richmond	
Select	$6.00 to $8.00
Medium	4.00 to 5.00
Killarney	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid,	4.00 to 6.00
Bride,	4.00 to 6.00
Ivory	4.00 to 6.00
Perle,	4.00 to 6.00
Roses, our selection	3.00

CARNATIONS

$2.00 per 100.

Easter Lilies $1.50 per doz.

	Per 100
Valley	$3.00 to $4.00
Callas	1.50 per doz.
Asparagus Plumosus	
Extra quality, per bunch	50c to 75c
Fancy Ferns, per 1000	$3.00

PETER REINBERG

35 Randolph St., CHICAGO.

VASSAR, MICH.—Several greenhouses in this vicinity were wrecked by a severe rain and hail storm which occurred May 16.

SALEM, O.—Case & Weirick, proprietors of the Grandview Greenhouses, have their buildings erected and are now open for business. This young firm has a very desirable location and by dint of hustling has been able to throw its place of business open prior to Memorial day.

Wholesale Flower Markets

ST. LOUIS, June 2.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 6 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 4 00
" Rhea Reid	4 00@ 8 00
" Richmond	2 00@ 6 00
Carnations, fancy	2 00@ 3 00
" common	1 00@ 1 50
Lily of the Valley	3 00@ 4 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, dagger, per 1000, $2 00	
Smilax	12 50@15 00

CINCINNATI, June 2.

Roses, Beauty, $1 00@$ 4 00	
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb, 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	12 50@15 00

BUFFALO, June 2.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	2 00@ 4 00
Callas	8 00@10 00
Cattleyas	60 00@75 00
Daisies	1 00@ 2 00
Lilac	25 00@50 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	2 00@ 3 00
Pansies	40@ 50
Peonies	5 00@ 8 00
Sweet Peas	50@ 1 00
Tulips, outdoor	50@ 2 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	3 00
Galax, per 1000	1 50
Smilax strings	15 00

MILWAUKEE, June 2.

Roses, Beauty, 1 00@ 3 00	
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodills	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, " "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz	1 75@2 50

MACOMB, ILL.—F. E. Bonham is setting out the bedding plants in the city park.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

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Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

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Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

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462 MILWAUKEE STREET,
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RICE BROTHERS
Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

Chicago.

A DECLINING MARKET.

The note of warning sounded in this column last week that there would be a general shortening up all along the line, due to the cold wet weather, and that prices would consequently soar was proved true by existing conditions last Friday and Saturday, as the Decoration day business this year was fully 20 per cent larger than any previous year in the memory of "the oldest inhabitant," and even then a great many orders, especially for carnations, were only partly filled. Owing to the fact that Decoration day fell on Sunday and that Monday was observed as the legal holiday conditions were somewhat different than in former years, as there were really two holidays for which to provide, but even then numbers of dealers did not seem to appreciate what effect this would have on the flower market and waited until the last moment to place their orders in the hope that prices would fall and consequently were caught with short supply and were forced to pay top prices even as late as Monday morning. Before noon, however, large shipments of carnations to one house broke the market and prices began to tumble and as a consequence the fancy blooms that had been selling for as high as six cents could be bought for two. This, of course, had its effect on the rose market and at the opening of business on Tuesday prices had dropped all along the line. Several of the growers cut an enormous crop of American Beauty, which is moving freely, but at low prices. One of the best features of this holiday which we note with a great deal of satisfaction was the almost entire absence of pickled stock. Whether this was due to the early demand or to the fact that growers generally are awakening to the fact that this antiquated method of doing business does not pay we do not know, but, whatever the cause, the result is very gratifying and will make for a more stable condition. Large growers nowadays, who are marketing their own product, are in direct telephonic communication with their greenhouses and keep their finger continually on the pulse of the market and are thus enabled to order in shipments as needed, thus preventing either a glut or a shortage. If this same method were followed by the commission men there would be neither the one nor the other and the flower business would then be conducted on the basis of supply and demand, with the result that everyone would be much better off. Cape jasmine cut very little figure on the market this year, and while the crop was only about one-half that of former years prices remained normal. Peonies were plentiful and of uniformly good quality, while sweet peas were in great profusion and never finer. There are still some few of the best eastern cold storage ferns to be seen and these are bringing top prices, while the ferns now coming in are the soft southern stock that is very hard to work up.

NOTES

Shipping orders came in so thick and fast May 28 that the bowlers in the Florists' Club had to stick close to business and were unable to go to the alleys last Friday night On June 4 play begins in earnest on the Bensinger drives when competition to decide on the team that will represent the club at the S. A. F. convention to be held at Cincinnati in August will be inaugurated. Every member of the Florists' Club and all who are identified with the flower business in Chicago who are interested in bowling should make it a point to attend these Friday night contests and either enter the competition or help root for their representatives.

The flowering trees and shrubs in the various parks are now at their best and those interested should not fail to make a tour of them. The herbaceous plantings in Garfield park are coming into line and the various species will be very interesting from now until the end of the season.

T. E. Waters of the A. L. Randall Co.'s supply department left on Tuesday on an extended business trip, to be gone about two months. Mrs. Waters left for the east on Wednesday, where she will spend the summer.

Henry Bassett, a brother of O. P. Bassett of the firm of Bassett & Washburn, died at his late residence, 772 Warren avenue, May 26, at the advanced age of 78 years Interment was on Friday, May 28, at Elmwood.

Hubert S. Morton, the Thirty-first street retailer, is going to sell out and go west. He anticipates leaving June 18.

The Bohannon Floral Co. has moved into its new quarters at 11 Monroe street.

Most of the wholesalers shut down at noon on Decoration day.

Now for the June weddings.

Visitors: R. R. Davis of R. R. Davis & Co., Morrison; W. W. Platter, Carbondale; Karl Hirsch of Hillsdale Floral Park, Hillsdale, Mich.; C. H. Woolsey and H. B. Sullivan, Rockford.

Cincinnati.

FLOWERS SCARCE

Trade the past week was very satisfactory. With a shortening of stock in some lines and growers holding back for Decoration day it took severe skirmishing at times to get flowers enough to fill orders. Several out-of-town orders had to be turned down owing to the fact that the wholesalers did not trust to ship the flowers on hand for fear of arriving at their destination in bad shape. Memorial day business was big. Not one of those interested in the business at this writing has had time to figure the volume of business done, but we can safely state that it was at least 25 per cent larger than last year. Everything was sold out. The carnation, of course, was the flower mostly in demand, with not half enough for orders. Next came peonies; immense quantities of these were shipped into the city and at closing time on Sunday it was a hard matter to locate a good bunch in any of the wholesale houses. Ernst Mack of Price Hill hit the market with about 780 Lilium longiflorum giganteum and they were eagerly snapped up. They were indeed a fine lot. Roses in most cases were poor and did not bring any price worth mentioning. The better grades, what few there were, brought $6 to $8 per 100, but these sales were few and far between. Sweet peas and daisies were good property and the same may be said of lily of the valley. Iris at present is fine and some very choice stock is to be had. In the green goods line smilax still remains scarce, while both Asparagus plumosus and A. Sprengeri are in ample supply. Kentucky fern is being shipped into the city in great quantities and seems to be in active demand.

NOTES.

Wm. Wittaker, who was operated on at Christ hospital about two weeks ago, had recovered so far that he was able to be taken to his home last Wednesday, but on Saturday took a decided turn for the worse and grave fears are felt as to the outcome. However, we hope he will be spared, as few men have more friends than good-natured Billy Wittaker.

Harry Balsley, the man who sells those nice red flower pots, was a caller this week minus a mustache, otherwise he is the same old Harry. He reports business as very satisfactory. The last seen of him he was arranging for space for a display of his wares at the coming convention.

Will Murphy states that applications for space are coming in nicely and from present indications when Horticulture Hall is opened for the visiting florists next August it will remind one of a miniature exposition. One firm took 500 feet the past week.

The J. M. McCullough Sons Co. and C. E. Critchell receive big shipments every day and at times one wonders where the fern leaves are used, but then this is a big country.

J. A. Peterson went to Chicago Monday night on a business trip.

S.

LOS ANGELES CALIF.—H. N. Gage has bought out The Fernery, of Long Beach, and will operate at that place under the name of Gage, Florist, doing a general retail business.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO

WRITE FOR SPECIAL PRICES.

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central **6004.** **Catalogue Free.**

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

CHAS. W. McKELLAR,

51 Wabash Ave., CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in Peonies, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

"THE BUSIEST HOUSE IN CHICAGO"

J. B. DEAMUD CO.

51 Wabash Ave., CHICAGO

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.

FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——

76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,

CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO, June 2.

Roses, Beauty, extra select ..		3 00
" " 30 in		2 50
" " 24 in.....		2 00
" " 20 in		1 50
" " 15 in		1 25
" " 12 in		1 00
" " Short		75
	Per 100	
" Bride, Bridesmaid, select..	4 00@	6 00
" " medium	3 00@	4 00
" Chatenay, Sunrise....	3 00@	6 00
" Golden Gate, Uncle John..	3 00@	6 00
" Kaiserin	3 00@	6 00
" Kate Moulton.....	3 00@	6 00
" Killarney, select.....	6 00@	8 00
" " medium	4 00@	5 00
" Mrs. Marshall Field	4 00@	6 00
" Mrs. Potter Palmer.....	4 00@	6 00
" Perle	6 00@	6 00
" Richmond, extra select....	6 00@	8 00
" " medium.....	4 00@	5 00
Carnations, select, fancy.....		2 00
" common.....		1 50
Callas .....per doz.	1 00@	1 50
Cattleyas.....per doz.		6 00
Daisies.....	75@	1 00
Forget-me-nots		1 00
Lilium Harrisii per doz.	1 50@	2 00
		15 00
Lily of the Valley.....	3 00@	4 00
Peonies, select.....	3 00@	6 00
Snapdragon, per bunch	1 00@	1 50
Sweet Peas.....	75@	1 00
Tulips.....	2 00@	4 00
Adiantum	75@	1 00
Asparagus Plum. strings..each	50@	60
" sprays	2 00@	4 00
" Sprengeri.....	2 00@	3 00
Ferns.....per 1000	3 00@	4 00
Galax, green..per 100 15; per 1000		1 00
" bronze..per 100 15; per 1000		1 00
Leucothoe sprays.....	75@	1 00
Smilax strings .....per doz.		1 50

Quality Counts..

Let us have your next order for

Roses and Carnations

and other Seasonable Flowers.

JOHN KRUCHTEN,

51 Wabash Ave., CHICAGO.

WEILAND & RISCH

Wholesale Growers and Shippers of

CUT FLOWERS

59 Wabash Ave., CHICAGO.

Phone Central 879.

Write for our wholesale price list.

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Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO

Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

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POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in

Cut Flowers

All telegraph and telephone orders ——given prompt attention.——

Greenhouses: MORTON GROVE, ILL.

32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

The Benthey - Coatsworth Co.

35 Randolph St. **Wholesale Florists** CHICAGO.

NOTICE!

Manhattan Flower Market WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

GOOD BUSINESS.

It is always pleasing to note a change for the better in the condition of the market. Considering the condition of stagnation that had prevailed for two weeks previous, the business of the past week was very satisfactory. One good reason was a heavy falling off in the receipts of stock. This, coupled with an increased demand, put the market, figuratively speaking, on its feet. Early in the week special American Beauty roses went up to $30 and $35 per 100 and held firm throughout at these figures. Special tea roses sold readily at $6 to $8 per 100, though they became rather slow toward the last of the week. Taken as a whole carnations were the best sellers in the market. The carnation that did not sell for three cents was indeed poor. Good average stock went readily at four and five cents, while the Ward novelties brought eight cents. Orchids, gardenias and lily of the valley were not such good sellers. In proportion to the demand these stocks were more plentiful than roses and carnations. The outdoor lily of the valley is now in the market in considerable quantities and much of it looks good. At any rate it is for the time being a novelty, and with its deep green foliage it catches the public eye.

DECORATION DAY BUSINESS.

Though officially Monday, May 31, was recognized as Memorial day, most of the business in flowers was done on the previous Saturday. For various reasons the retailers of this city do not expect heavy business from the observance of this holiday. Many treat it as a holiday, pure and simple, leaving the city or seeking enjoyment in the lighter forms of amusement. There are many, however, who enter into the true spirit of its observance. There was a good market on Saturday, but it was noticeable that the cheaper grades of stock were more in demand; this, so far as we have observed, is usually the case. The volume of business was fully up to expectations and probably in excess of some previous years. At the plant market on Saturday morning, geraniums and other bedding plants sold as fast as they were carried in from the wagons. Doubtless much of this stock eventually reached the cemeteries. Though considerable outdoor stock has been in the market throughout the week, good peonies are slow in coming in.

NOTES.

We have received from Secretary Geo. V. Nash, the programme for the summer exhibition of the Horticultural Society to be held in the Museum building, Bronx Park, June 5-6. Particular attention is called to the fact that the exhibit will remain open on Sunday. Bronx Park is a beautiful spot for rest and recreation in the open air and its many attractions are well worth a visit. It is hoped that the additional attraction of a flower show, open on Sunday, will cause many to spend a day among its fine horticultural and zoölogical features.

The Johnston Heating Co. has secured the heating contract for several large houses being erected by Thomas Young, Jr., at his Boundbrook, N. J., range.

One of the interesting figures of this vicinity, now connected with the growing end of the business, is Dr. Daniel E. Logue, of Geo. P. Bloomer & Sons, Bellmore, L. I. Dr. Logue, then a very young man, was surgeon of the Monitor at the time of its historic sea battle with the Merrimac in Hampton Roads, March 10, 1862. It is a matter of history that the noise of the battle, or the results, echoed around the world and turned wooden war ships into junk. Dr. Logue is now 77 years old and a fine old man. He practiced medicine in Brooklyn till nine years ago, then, seeking retirement from the strain of an exacting profession, he moved to Bellmore and adopted the noble art of horticulture.

Through the increased vigilance of the police a man was arrested in Central park on the morning of May 29 and taken into Magistrate Herman's court on suspicion of having stolen a rhododendron, found in his possession, from the Sage collection in the park. A year ago these plants, the cost of which it is said was $50,000, were presented to the city by Mrs. Russell Sage. They were planted along the East drive near the Ninetieth street entrance to the park. Nearly half of them have already been stolen.

The Florists' Club outing is already an assured success. Special tickets for gentlemen only are $3.50, babies free. A $10 special prize will be given for the baseball match between wholesalers and retailers. The souvenir book will have 50 pages and many photographs. Donations for prizes and advertising are far ahead of all records to date.

Frank Valentine, a young man who has had long experience in the florists' business, is now conducting a wholesale store at 158 East One Hundred Tenth street.

Chairman Bunyard, of the Florists' Club outing committee, says it's about the last chance for members to get their pictures in the outing souvenir.

John Berger, of Berger Bros., Philadelphia, Pa., visited the cut flower district May 27.

Providence, R. I.

Thursday, Friday and Saturday of Memorial week were days of rainy weather that were calculated to produce a short crop of plants and flowers. Sunday and Monday were perfect and almost made up for the shortage of stock. Carnations were the scarcest and wholesaled at $3 per 100, some best grade going from $4 to $6, the latter prices being too high for the thoughtful retailer. Roses started in fairly short supply, but gradually uncovered and showed enough and plenty. They wholesaled at $3 to $10, the latter price procuring fancy stock with whip stems. Killarney, Richmond, Chatenay, Bride and Bridesmaid came in with good buds and clean foliage. The short stem grades were in heaviest demand with the trade, being used principally for bouquet work. Gillyflower, sweet peas, deutzia, field narcissi, white lilac and candytuft were in abunddant supply at reasonable rates. Geraniums were in fair supply and cleaned out entirely at 15 to 20 cents each retail; in pans of five at $1 there was a fine call. Bouquets went at $1 generally. Business was good and slightly greater than 1908.

M. M.

Rochester, N. Y.

MAYOR HELPS FLORISTS

Mayor Hiram H. Edgerton is interested in the flower show which the Commercial Florists' Association will hold in this city three days in the first week of November. Mr. Edgerton is practical in his interest, and Chairman Charles H. Vick is in receipt of a cordial letter from the mayor, in which Convention hall is tendered and assurance given that the mayor will be glad to do everything in his power to make the exhibition a genuine success. The letter follows:

I desire to invite the Commercial Florists' Association of Rochester to hold its contemplated flower show in the Convention hall in this city, and will be glad to do everything in my power to assist in making this exhibition a genuine success.

It seems to me that the florists and nurserymen of this city have shown commendable enterprise in planning for a flower show of this character. Rochester is the center of this business, and its greenhouses are famous everywhere. Many of our private citizens have devoted much time and means to the cultivation of flowers, and will contribute to the success of the display.

Such an exhibition as you have in mind will certainly be a fine thing for all concerned, and will prove advantageous to those engaged in the business, and very attractive to our citizens generally. The love of flowers and plants is common to us all, and I am sure an attractive exhibition of them will prove very beneficial.

I therefore cordially invite you to hold such an exhibition in Convention hall, and will do all in my power to make it successful.

Mr. Vick said the offer of the mayor will be gratefully accepted. In many respects the flower show will be unique. There have been flower shows in other cities, but we are determined to have one which will emphasize anew the name which our city bears, the Flower city. This will be no flower show, according to the accepted idea. There will be no tables, no set displays. We are to have one immense landscape effect, designed by one of the best landscape artists in the city, and taking up the entire floor space of Convention hall.

A 12-foot waterfall from the rear of the stage to the floor below, with palms and flowers and greenery, will be a feature. A band of 40 pieces will be stationed by the side of the stage, on the auditorium floor. There will be no room for it on the stage. To obviate the bare effect of the galleries, a canopy will descend from the ceiling to within six feet of the gallery railings, and will be covered with smilax and flowers. There may be an occasional settee on the ground floor in keeping with the landscape idea, but for the rest the only seats will be those of the gallery. We expect to import palms and smilax from the south by the carload, but apart from them the entire show will be of Rochester production pure and simple."

WEST LEBANON, N. H.—S. P. Franch is building a new greenhouse.

FLUSHING, N. Y.—Frank Voisenat was indicted and fined $10 for an assault upon the cemetery keeper here May 18.

RICHMOND, VA.—W. H. Hammond shipped 1,000 blooms of peonies this season, mostly Queen Victoria, for late; Officinalis and Rosea Superba, pink, early; Officinalis Rubra fl. pl., red, early. He will again plant largely this season.

J. K. ALLEN,

Wholesale Commission Florist.

Consignments Solicited.

Open every day at 6:00 a. m.
Telephone, 167 Madison Square.

106 W. 28th Street, NEW YORK CITY.

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Phones, 798 and 799.

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Our Specialty is Everything.

CONSIGNMENTS OF THE BEST STOCK SOLICITED. | THE SQUARE DEAL guaranteed to all who trade here

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J. A. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square.
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THE WHOLESALE FLORIST OF NEW YORK

34 WEST 28th STREET

PHONES, 1664-1665 MADISON SQUARE

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54 West 28th Street, NEW YORK.

Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

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JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

49 West 28th St., NEW YORK

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N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave & W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising.

V. S. DORVAL, Secretary.

John Young

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50 W. 28th St., NEW YORK.

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Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere. Prompt and satisfactory. Consignments solicited

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All flowers in season. Consignments of first-class stock solicited.

Telephones 4626 and 4627 Madison Square

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,

Room 112 Coogan Bldg. Cor. 6th Ave and 26th St. NEW YORK.

Wholesale Flower Markets

NEW YORK, June 2.

		Per 100
Roses	Beauty, special	25 00@30 00
"	" fancy	15 00@20 00
"	" extra	8 00@10 00
"	" No 1	3 00@ 4 00
"	" No. 2 and No. 3	50@ 2 00
"	Bride, Bridesmaid, special.	4 00@ 6 00
	extra and fancy	2 00@ 3 00
	No. 1 and No. 2	1 00@ 2 00
"	Killarney special	6 00@ 8 00
	extra and fancy	2 00@ 3 00
"	Richmond	50@ 6 00
Carnations	fancy and special	3 00@ 4 00
"	common	50@ 2 00
Callas	per doz.	40@ 50
Cattleyas		20 00@35 00
Daisies		50@ 1 00
Gladiolus		15 00@20 00
Gardenias	per doz.	1 00@ 2 00
Iris German		25@ 50
Lilac, Cut	per bunch	50@ 75
Lilac Outdoor	per bunch	20@ 25
Lilium Longiflorum		3 00@ 5 00
Lily of the Valley		1 00@ 2 50
Mignonette	per doz.	20@ 50
Peonies		4 00@ 6 00
Snapdragons (Antirrhinum)	doz.	15@ 35
Stocks (Double white)	per bunch	15@ 25
Sweet Peas	per doz bunches	20@ 75
Asparagus	doz. bunches	1 50@ 2 50
Smilax		10 00@15 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

56 West 26th St. NEW YORK.

Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

FORD BROS.,

Receivers and Shippers of

Fresh Flowers

48 West 28th St., NEW YORK.

Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florists

55 and 57 West 26th Street,

Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

57 West 28th St., NEW YORK CITY

Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

CHARLES MILLANG,

Wholesale Florist,

444 Sixth Avenue, cor. 27th St.. NEW YORK

Consignments Solicited.

Telephone 7062 Madison Squa

Philadelphia.

GOOD MEMORIAL DAY TRADE.

Memorial day business was quite up to expectations in the demand for flowers, out-of-town business being particularly good. Immense quantities of stock in all lines were shipped out on Friday and Saturday; the commission men all said they had more than they could satisfactorily do. Carnations were most in demand and there was not enough to go around; $4 and $5 was the price. Peonies were found in every order. Early in the week the cool weather made the dealers doubtful about these flowers, but the weather changed later, the buds opened nicely and the general stock was never finer than this season. Prices ranged $6 to $16 for Festiva Maxima. American Beauty roses sold well, there being a supply sufficient for all demands. Eastern stock is much better than the local, as is also Kaiserin; the imported flowers of this variety are so fine that many ask what they are. Sweet peas were plentiful and sold well. The outdoor stock is now in, some remarkable flowers being seen; the whites readily bring $1.50 per 100. Stocks, lupins and snapdragon were to be had in quantity and brought good prices. Easter lilies were a feature with some shippers and lily of the valley was never finer and had a good sale.

NOTES.

W. K. Harris, who does things in a large way, has worked up a trade in Crimson Rambler and Baby Rambler roses for the last two weeks in May. As soon as the Easter stock is out the houses are immediately filled with rambler roses which have been wintering in cold frames. These are generally to be found in place on Easter Saturday; the men when waiting for returning wagons in Easter week bring the roses from the frames so that the houses are not vacant for more than a day. Today there is nothing left, roses all gone, thousands being handled the past week when there was a good demand for them. Ferns now take up this space. The new Harris fern, a crinkled form of the Boston, will be a leader this fall; it is sure to be a winner, being much admired by such good judges as E. G. Hill and Julius Roehrs.

McKissick Bros. had an innovation in a quantity of purple lilac, eastern stock which arrived in fine shape. They report a very satisfactory business, handling large quantities of eastern and local American Beauty and Kaiserin roses.

The Leo Niessen Co. say its staff was worked to the limit, but handled the large stock satisfactorily. American Beauty roses, peonies and carnations were leaders, being handled by the thousands.

Edward Reid cleaned up almost to the last flower; eastern lilies, American Beauty roses and carnations were his leaders. He says the shipping is widening with each season.

Berger Bros. report business very satisfactory; quantities of peonies and outdoor shrubbery were handled, as were roses and carnations. K.

Baltimore.

BUSINESS BETTER.

There have been heavy rain storms and some hail, but the general effect of the climatic influence has been favorable and the development of all plant growth may be expected to be vigorous. Trade conditions improved slightly in the past week and there was something more like animation. The planting season is pretty well over and the general verdict is not satisfactory, the changeable weather not conducing to good results.

Decoration day does not constitute such an event in this location as in the west and north, and there is no great extra demand for any other material than the cheaper grades which are adapted for cemetery decorations. This year there was in some measure a double observance of the holiday. On Sunday many of the final resting places of the gone before other than sailors and soldiers who served their country, were adorned with wreaths and cut flowers, whilst Monday was the general celebration by organizations, with addresses, parades, etc., and the strewing of the graves in the public cemeteries with flowers. Stock was not quite abundant enough on Saturday, whilst on Monday there was rather more than could be worked off. Carnations were rather scant, and on the first named day peonies were not over abundant. The weather was superb and great crowds attended the patriotic celebrations.

NOTES.

Robert L. Graham and wife are arranging for a transcontinental trip and will visit Yellowstone Park and the Pacific coast, making a leisurely journey, which will be doubtless full of variety and interest. Mr. Graham has had a stall for quite 30 years in one of our oldest markets (Belair) where he has sold plants but he has decided to give it up. So many of the truck farmers have gone into raising bedding plants that production seems to be excessive and prices, under the keen resultant competition, are not remunerative. Besides this he has the responsibilities of two stores on his hands, and they, with his greenhouses, probably give him as much to look after in the way of work as he desires.

A lady in one of the residential sections had a peripatetic vendor of plants arrested one day last week for obtaining money under false pretenses. He sold her some vines with the declaration that they were clematis, but they turned out, she declared, to be weeds, and she handed the gentleman with the glib tongue which effected the sale over to the police. S. B.

Washington.

PEONIES OVER PLENTIFUL.

The Decoration day rush started on Saturday and continued Sunday and Monday. Many made up designs of immortelles in such arrangements as American flags, red, white and blue wreaths and army badge designs were disposed of easily. Galax wreaths with clusters of flowering laurel were also in great demand. Owing to the warm spell peonies were shipped to this market in great quantities and the retailers experienced great difficulty in holding the flowers for Memorial day; they sold at $1 to $1.50 per dozen. Great quantities of sweet william and mountain laurel were used for the purpose of decorating graves. The departures for early June seem to be marked in number, although the congressional world remains almost intact and expects to present a solid front until the happy day of adjournment arrives.

NOTES.

Geo. C. Shaffer's window consisted of an American eagle carrying a sash with the motto "E. Pluribus Unum." On either side was placed a shield of red, white and blue immortelles, and to the rear stood a private dressed in the old-time uniform, carrying an American flag.

Gude Bros.' Decoration day window display consisted of a large immortelle wreath made up to represent an American flag twisted and draped around the frame; the imitation was perfect and many pleasing comments were made regarding same.

The features of Z. D. Blackistone's window were cross guns draped with national colored ribbon, an immortelle wreath of red, white and blue, and a huge sago palm arrangement, the leaves of which were gilded.

Chris. Schellhorn has about the best colored roses at this season and he is cutting excellent Bridesmaid, Bride and Golden Gate. He claims the only trouble he has is that the demand is greater than the supply.

P. M. Palmer of Silver Springs brought in enormous quantities of choice peonies during the past week; he devotes a great deal of time to the culture of these flowers and has some choice specimens.

Marche & Co. showed an American flag so cleverly made that passers by mistook it for the real article; it was made of immortelles and shaped to give a waving effect.

Geo. Cooke executed the decorations for the graduating exercises of Mt. Vernon seminary, given at the Willard hotel; aside from this he has had an unusual busy week.

A large grand army badge made of immortelles, with the inscription "Phillip Sheridan Post No. 14," was the feature of J. H. Small & Sons' windows.

Theo. Diederich's sweet pea crop seems to have no end; he is practically supplying the city with them; he is also cutting some choice varieties of peonies.

Alex. Garden always seems to have such seasonable stock as the retailer most requires, of the proper sort and at the proper time. G. S.

Boston.

CARNATIONS AT UNHEARD-OF PRICES.

Memorial day of 1909 will pass into history as a day of sensations the like of which this market never before witnessed. It was a memorable one, especially for the growers, who reaped a golden harvest and who turned to their favor every advantage offered. Prices were boosted constantly, the general list varying but in the slightest degree from regular Christmas figures. A fortnight of cold and damp weather had menaced the expected crops to a startling degree which was not realized even by the growers themselves until the eve of the rush. Memorial day carnations at not less than $6 per 100 and in most cases $8 to $10 were an unheard-of proposition which made all thoughts of profit seem absurd. Regardless of the quality these prices prevailed steadily through until the end of the business and the market was absolutely cleared up. Working stock such as candytuft, gilly flowers and feverfew likewise brought top prices averaging 50 per cent more than is usual. There was not nearly enough to go around at these prices and anything that could be used at all found an opening readily. Easter lilies, which are ordinarily cheap and plentiful, were exceedingly scarce. The rose men were prepared for the rush far better than other specialists, and they enjoyed an excellent business. Killarney was the principal standard. Short stock of this and all other roses was scarce but was distributed with discretion, more businesslike than the haphazard methods of the carnation men. Richmond, although not plentiful, was able to meet the market on equal terms. American Beauty was as fine stock as has been seen this year. Demand and supply balanced well and prices ranged from $2 to $4 per dozen. Bride was, generally speaking, in poor shape. Sweet peas were as a whole poor and still a constant cry kept up for more. Everything showing the least semblance to a flower was cut in the effort to keep up with the orders. A good supply of

Galax by the case

Ever stop to think of the economy of buying your Galax by the case? **1000 cost $1.00; 10,000 or 1 case cost $7.50.** Then it is worth something to always have them on hand. Our stock is carefully selected and is sure to give satisfaction.

The Leo Niessen Co.
Wholesale Florists,
1209 Arch St. Philadelphia.

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants
American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.
—Send For Prices.—
W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.
(Limited)
The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

J. B. Murdoch & Co.
714 Penn Avenue, PITTSBURG, PA.
All Seasonable Flowers.

CHOICE
BEAUTIES, PEONIES, SNAPDRAGON, ORCHIDS, ROSES, VALLEY, MINIATURE GLADIOLUS.
THE McCALLUM CO., Inc., PITTSBURG.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.
W. E. McKissick & Bros.
WHOLESALE FLORISTS.
ABSOLUTELY THE BEST POSSIBLE SERVICE.
Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

first quality lily of the valley was available at $3.50 to $4 per 100. A few shipments of outdoor lilacs were received, but outside of this outdoor goods were not marketable.

NOTES.

Welch Bros. were mightily pleased with their holiday business and, in spite of the short local market, were able to amply supply all the demands of their customers. The total business of the three days far exceeded the corresponding period of last year and the sale of green supplies and ferns was never exceeded.

W. H. Elliott is cutting the first of the wonderful Kaiserin rose, which is the closest competitor to White Killarney. These are the initial cuttings of an extensive crop which is the summer specialty of this establishment.

Donald Carmichael of Wellesley sailed during the week for a three months' pleasure trip to Europe. During his absence the business will be under the direct management of his foreman, C. P. Owens.

The Waban Rose Conservatories showed some magnificent American Beauty roses for the holiday trade, as good stock as has been cut this year.

P. L. Carbone is on a business trip through the west. B.

Tasmanian Apples for European Markets.

Consul Henry D. Baker, of Hobart, sends a newspaper clipping which says that 18 steamers have been engaged to carry 360,000 cases of apples from Tasmania to the United Kingdom and Germany. While the apple crop of 1909, which will be shipped during February, March, and April, is fully equal to that of the preceding year, the shipments will be 150,000 cases less. The growers are intending to market more of the fruit in Australia this year. It is estimated that the shipments from the entire commonwealth of Australia to European countries will fall 130,000 cases below those of last year.

Wholesale Flower Markets

PHILADELPHIA, June 2.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	20@ 35
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Peonies	4 00@15 00
Sweet Peas	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, June 2.	Per 100
Roses, Beauty, specials	15 00@25 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 6 00
" Chatenay	2 00@ 6 00
" Killarney	2 00@ 6 00
" Richmond	2 00@ 6 00
Carnations	1 50@ 3 00
Iris	4 00@ 6 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	4 00@ 6 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, June 2.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—
Carnations, Roses, Beauties,
All Seasonable Flowers.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

The Knell of the Forests.

Have you heard the throb of the forest heart?
The crash as the shivering timbers part,
And a life goes out—a forest king
Reels to his fate where the ax strokes ring?

Have you seen the monarch of centuries past
Throw down his crown and give over at last,
From the struggle of years to bring to its height
The shaft reaching up to the blue and the light?
The struggle to gather from earth and from air
The elements wrought into food by his care;
To gather the waters and hold them for you
To be fed to the springs, and fed to the dew?
The struggle with drought and tempest and blast?
Oh, the doomed, passing forests! The die is cast!
Each moment that spins from the wheel of Time,
Marks a veteran's fall in his native clime.

There are deserts to-day, where a while ago,
The rain-spirit brooded, and wild buds could blow;
Where the arms of the forests were held to the sky
As a pledge that the water-springs never should dry.
But the ax of invasion swung in with its threat;
The forest-heart reeked where the ax-blade was set;
And the Earth, in revolt, gave the shafts of her dead,
But her waters withdrew! The sun burneth red,
Where Verdure once wrought at her looms, and the rain
Through the forests sung Nature's sweet, joyous refrain;
But to-day, where scorched Nature lies burned with its brand,
The death-angel broods on the wings of the sand.

Shall America, garden of earth, cast away,
The gifts of the centuries, felled in a day;
Till she stands in her poverty, branded, servile,
A target for cycles of time to revile?

—Geo. Klingle.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.
WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

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Samuel Murray
...FLORIST...
1017 Broadway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph. All orders given prompt attention.

St. Louis, Mo,
Write, Wire or Phone Your Orders to
YOUNGS
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Regular discount allowed on all orders, either Plants or Cut Flowers.
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For Tourists and General Trade.
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FRANK F. CRUMP,
Wholesale and Retail. Florist.

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Only the Best
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Canada's Best Known and Most Reliable Florist.
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We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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Brooklyn, New York.
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Greenhouses: Short Hills, N. J.
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NEW YORK, LONG ISLAND and NEW JERSEY.

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IN HEART OF NEW YORK CITY
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The Park ...Floral Co.
L. A. VALENTINE, President.

Denver, Colo.
FLORAL DESIGNS AND FLOWERS
Best Quality on Shortest Notice
DANIELS & FISHER
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Prompt and Careful Attention given to all Mail and Telegraph orders.

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EYRES
Flowers or Design Work.
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.
11 NORTH PEARL STREET.

Rochester, N. Y.
J.B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dis. Bell Phone

The American Florist Company's
DIRECTORY
Contains the names and addresses of all the Florists, Seedsmen and Nurserymen in the United States and Canada. Price $3.00.
AMERICAN FLORIST CO.,
324 Dearborn Street. CHICAGO

SALISBURY, MASS.—The spring is cold and late and there were very few outdoor flowers here for Memorial day.—B.

ELKHART, IND.—Henry Schenk was struck by an automobile while driving along the Adamsville road, on which his place of business is located.

PEORIA, ILL.—The firm of D. U. Augspurger & Sons Co. filed its incorporation papers with the county recorder May 15. The firm is to carry on a general florist business and the capitalization is placed at $20,000. The shares are held, 50 each, by D. U. Augspurger, Maddalena Augspurger, Melvin D. Augspurger and Austin M. Augspurger.—Peoria Journal.

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Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

M. C. and J. E. Hauswirth.
Auditorium Annex.
Mail, telegraph or telephone orders filled promptly in best style.

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JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,

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16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

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Geo. M. Kellogg Flower and Plant Co.,
906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen

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Special attention to Telegraph or Telephone orders. Phone 1912.

Atlanta, Ga.

ATLANTA FLORAL CO.
41 Peachtree Street.

Hoffman FLORIST
59-61 Massachusetts Ave. cor. Commonwealth Ave.
BOSTON.

Washington, D. C.

Geo. C. Shaffer,

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Phone 2416 Main 14th & Eye Sts., N. W
Write, Telegraph or Telephone.

Louisville, Ky.

Established 1890.
Orders for delivery in this city and nearby points in the South solicited by
M. D. REIMERS,
Successor to Chas. W. Reimers'
329 FOURTH AVENUE.

Anderson, S. C.

THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Week Ending June 12.

June 8, Kronprinz Wilhelm, N. Y.-Bremen.
June 8, K. Wilh'lm der Grosse, Br'm'n-N. Y.
June 8, Carmania, Liverpool-New York.
June 8, Carpathia, Trieste-New York.
June 8, New Amsterdam, N. Y.-Rotterdam.
June 9, Nechar, Baltimore-Bremen.
June 9, Laura, New York-Trieste.
June 9, Haverford, Liverpool-Philadelphia.
June 9, Lusitania, New York-Liverpool.
June 9, Oceanic, New York-Southampton.
June 9, Lake Champlain, L'pool-Montreal.
June 9, President Lincoln, N. Y.-Hamburg.
June 9, Germania, New York-Naples.
June 10, La Provence, New York-Havre.
June 10, Romanic, Boston-Genoa.
June 10, Dominion, Liverpool-Montreal.
June 10, Berlin, Genoa-New York.
June 10, Pr. Friedrich Wilh'lm, N. Y.-Br'm'n.
June 10, United States, N. Y.-Copenhagen.
June 11, Virginian, Montreal-Liverpool.
June 11, Victorian, Liverpool-Montreal.
June 11, Marquette, Philadelphia-Antwerp.
June 11, Arabic, Liverpool-New York.
June 12, Columbia, New York-Glasgow.
June 12, Caledonia, Glasgow-New York.
June 12, St. Paul, New York-Southampton.
June 12, St. Louis, Southampton-New York.
June 12, Campania, Liverpool-New York.
June 12, La Loraine, Havre-New York.
June 12, Caroline, Havre-New York.
June 12, Kroonland, New York-Antwerp.
June 12, Vaderland, Antwerp-New York.
June 12, Cedric, New York-Liverpool.
June 12, Canopic, Boston-Genoa.
June 12, Canada, Montreal-Liverpool.
June 12, Lake Erie, Montreal-Liverpool.
June 12, Cincinnati, New York-Hamburg.
June 12, Rotterdam, Rotterdam-New York.
June 12, Campania, New York-Naples.
June 12, George Washington, Bremen-N. Y.
June 12, Argentina, Trieste-New York.

Alexander McConnell,

571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.

Telegraph orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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Artistic Designs.
High Grade Cut Blooms.

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ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

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J. W. Wolfskill,
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Telegraph Orders a Specialty. 218 W. 4th St.

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L. L. MAY & CO.

Order your flowers for delivery in this section from the
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Successor to Sievers and Boland,
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.

Will take proper care of your orders in WISCONSIN.

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

SAN JOSE, CALIF., May 26.—C. P. Braslan predicts that Red Wethersfield onion seed will be worth $1.25 per pound at wholesale next season.

FRENCH reports of May 22 regarding the French bulb market indicate that prices on that date were firm and that liberal purchases were being made, which would not indicate a decline in the near future.

ROCKY FORD, COLO., May 21.—D. V. Burrell has a larger acreage of his specialties than usual planted at this time, planting just being completed. The soil is in excellent condition and there are no apparent reasons now why the crops should not make a good growth.

NEW YORK.—The spring run of business seems to be about over and the hard worked employes of the seed stores are looking forward to a less strenuous life, at least for a time.—C. C. Massie of Northrup, King & Co., Minneapolis, is spending a few days in this city enroute to Europe.

LOS ANGELES, CALIF.—Fred H. Hunter, for seven years general manager of the Germain Seed Co., has resigned his position. He has several propositions under consideration but before again going into active business will take a much needed rest. He will then locate again in the seed business on this coast.

ARROYO GRANDE, CALIF.—The Routzahn Seed Co. writes under date of May 25: "Crops in general, with us, are looking above the average; especially is this true of sweet peas, nasturtiums and flower seeds in general. Lettuce, salsify, tomato and cucumber are good. Onion prospects about two-thirds of a crop. Pole beans in course of planting."

CHICAGO.—The prospects now, according to the L. A. Budlong Co., are for a good crop of onion sets here, but it is yet too early to predict what the ultimate outcome will be.—Contract prices on the board of trade June 2 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.—Visitors: A. T. Ferrell, Saginaw, Mich.; Ernst Benary, Jr., Erfurt, Germany, enroute to California.

Braslan Seed Growers' Co.

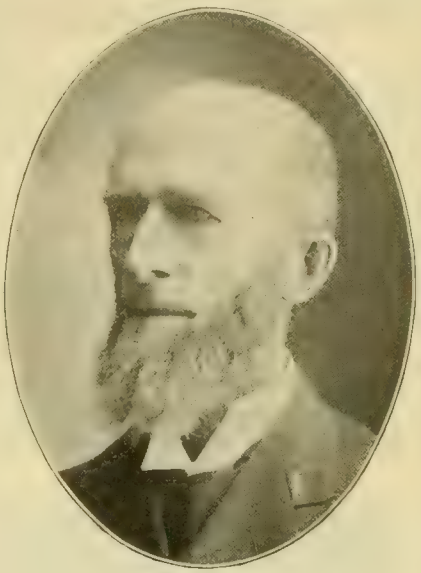
Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

M. Crawford's Gladioli.

A new firm at Lake Mills, Wis., engaged in growing the gladioli a year ago with a stock of bulbs obtained of me. Last year they shipped flowers to Milwaukee, Chicago, Madison, Wis., and Minneapolis with such success that the members of the firm were encouraged to make a great increase in their business, and have purchased my entire collection, except two of each kind. This is one of the finest collections in existence and it may be interesting to readers of THE FLORIST to know how it was got together, for it represents many years of effort.



M. Crawford.

I became interested in the gladiolus over 40 years ago and have obtained choice kinds from many sources in the meantime by exchange and purchase. After learning how to grow seedlings successfully I purchased all the seed that was offered by the pound in this country and Europe in one year—about 30 pounds in all. From this I raised about a million bulbs. In the spring of 1895 I purchased all the hybridized seed that H. H. Groff produced the year before—his first year in hybridizing. From this I obtained a number of fine varieties. As I have been growing acres of choice kinds for Vaughan's Seed Store for some years, I have had unusual facilities for saving large quantities of fine seed. Growing seedlings is exceedingly fascinating and I expect to continue in the work. To show the value of some of the finest, I offered Mallory & Bridge, the firm indicated above, $20 an ounce for the small bulbs of Isabel, Theo. Grant and Mrs. Donaldson, but could not buy them. This collection is made up very largely of choice seedlings, some of which have been increased to several thousand and named but not introduced. Others are few in number but of great promise. With such varieties, a rich soil and excellent shipping facilities the new firm will be well equipped for the flower and bulb trade.

M. CRAWFORD.

Cuyahoga Falls, O.

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS MICH.

Nebraska Seed Crops.

Fremont, May 18.—The Western Seed and Irrigation Co. writes: "Most of our growers have their corn about planted under favorable conditions, and the vine seeds are now being planted to a large extent, with the exception of cucumber, which will not be put in the ground until about June 1 or soon after. We have had some good showers during the past week, which have been beneficial to all crops that were in the ground. Some of the farmers, however, are being obliged to plough up their oats and some of their wheat, and we are placing some additional acreage for early corn and vine seeds with these farmers, which will help us materially in placing a larger acreage of some varieties.

"It is too early to give any reports as to stands, but with a favorable season we hope to make full deliveries. We have already booked double the amount of contract orders we have ever booked at this time previous years, and have been obliged to discontinue quoting some varieties. The trade do not seem to realize the difficulty growers have in placing suitable acreage late in the season, especially for large orders, one of which we received last week covering several hundred bushels of a number of varieties of sweet corn, and several thousand pounds of a number of varieties of cucumber, melons, etc. It would be to the advantage of the trade generally if they would take the time to place their contract orders earlier in the season."

Waterloo, May 28.—The J. P. Robinson Co. writes: "The corn crops are nearly all planted and a few farmers have commenced working their crops. Reports indicate a satisfactory stand. Very little replanting has been necessary, although cool weather has retarded germination somewhat. The acreage of sweet corn is rather light, farmers showing some inclination to grow independently rather than to contract for future delivery. It will take an average crop to fill contract orders, with no excess acreage. Flints have also gone slow, although a fair acreage has been placed. Melons and squash have just been planted and cucumbers will commence to go in the ground next week. Farmers have fought shy of special crops and can hardly be blamed with present prices for elevator corn and wheat. The spring has been rather dry and cool; in fact, about the coolest we have had in many years, but it has not damaged either fruit or tender crops."

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

We Invite You

To Visit

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and compare our

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With those of our competitors.

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IN CALIFORNIA.

BRASLAN SEED GROWERS CO.

SAN JOSE, Santa Clara Co.,

360 So. First Street. **CALIFORNIA.**

Iowa Seed Dealers' Association.

A meeting of the Iowa Seed Dealers' Association was held at the Chamberlain hotel, Des Moines, June 1, a very full attendance of members being present. The morning session was devoted to a discussion of the Iowa seed law, and the litigations which have resulted from it. The afternoon session was an open meeting, the visitors present being Henry and John Wallace, E. E. Favelle, George Franklin and Prof. Atkinson, editors of local farm papers, George A. Wells, secretary of the Iowa Grain Dealers, Prof. Pammell, state botanist, State Seed Commissioner Wright and State Inspector Fariday. The visitors spoke informally, giving their views of the Iowa seed law and its general effect in bettering conditions, improving the quality of seeds sold, both as to purity and vitality, and the seed corn betterment, as to quality, vitality and productiveness.

J. F. Summers, an Ames graduate, and practical seed corn grower, spoke on his method of testing seed corn, which was listened to with much interest. The meeting was then adjourned and the members partook of a banquet, after which the evening executive session was held. A general discussion took place, after which the following officers were elected:

C. N. Page, Des Moines, president.

Henry Field, Shenandoah, vice-president.

B. H. Adams, Decorah, secretary.

John T. Hamilton, Cedar Rapids, treasurer.

Executive committee—Charles N. Page, John T. Hamilton, Walter C. Adams, Mel. L. Webster and H. A. Johns.

True and Pure Seeds.

FROM A SEEDSMAN'S VIEWPOINT.

A paper read at a meeting of the Grand Rapids Growers' Association by L. F. Jones, of the Jones Seed Co., Grand Rapids, Mich.

As this is the first great speech I have ever made and "I am not an orator as Brutus is," I trust you will excuse me if I read the few words I have to say. The subject, "Good Seeds," is of vital interest to every greenhouse man and gardener, as well as to every dealer in seeds. If we could always be sure when buying seeds that they were true to name and pure as to variety it would be easy and the seed business would be both pleasant and profitable. While the amount of seeds not true to name or pure is very small as compared with the great bulk of seeds that are sown, it is unfortunately true that we do not always get what we buy. While mistakes must sometimes occur with the large wholesalers, the excellent system they use and their care in selecting their help probably eliminate, so far as it is possible for man to do so, the chance of mistakes in putting up orders. But no man and no system can entirely avoid all chance of error.

EVIL OF CHEAP SEEDS.

I think the greatest trouble comes in the growing and roguing of seed crops, and I think both gardeners and seedsmen are somewhat to blame, and by seedsmen I mean more especially the large jobbers of seeds. Now, I know every one of you gentlemen personally and know that the price of seeds does not influence you in buying, but the fact that many seed firms do build up a very large trade by making extravagant claims for their seeds and advertising them at prices which do not allow a legitimate profit to the grower, proves that the great bulk of the users of seeds will buy where they can buy the cheapest. This competition in prices has done more to demoralize the seed trade and to cause seed crops to be more carelessly grown and rogued than all other causes combined. I do not say these dealers do not sell good seeds, but I do claim that they do not pay the seed grower a fair profit for taking the necessary pains that must be taken to properly rogue and grow seeds of the best quality.

There is always a tendency in our improved varieties of vegetables to revert back to the original types and to degenerate, and this can only be overcome by the most careful selection. I was talking with a prominent California grower at the seedsmen's convention in Toledo. He said: "If I go to many of the large distributers of seeds and tell them I have a specially fine strain of Grand Rapids lettuce seed with which I have taken great pains and for which I must get more money, they will laugh at me and will not allow me more for the seed than they can buy ordinary stock for." I told him I did not care what he charged me if he would give me the quality. I bought some Grand Rapids lettuce seed from him, and it was very good, but last year I purchased a larger quantity and our test showed it to be absolutely worthless for forcing and I returned it. He acknowledged that they had sent me the wrong seed stock and offered to replace it with his best stock.

SEED TESTS.

I think one trouble with these growers is that they have not the commercial machine for placing the better grades of seeds with dealers who, like myself, would be willing to pay an extra price for extra quality and competition has compelled them to contract

VAUGHAN'S
Lilium
Harrisii

With an early Easter in 1910, don't overlook an early forcing Lily like this.

We are headquarters for the best bulbs grown on the island.

Vaughan's Seed Store
Chicago. New York.

NEW CANNA
WAWA

A new shade of beautiful soft pink splendid form

$1.50 each, $12.00 per dozen.

Wm, Sanders, Venus, Rosea Gigantea, Mt. Blanc, King Humbert and other new and standard varieties.

—Send for List:—

The Conard & Jones Co.
WEST GROVE, PA.

Fischer's Grand Freesia
PURITY

The Unequalled, White Decorative Freesia :: ::

Send in your orders early if you want to secure the large sizes. I am booking large orders now for them and will have to refuse orders for Mammoth, although I will have more than other years. My stock is absolutely pure as great pains are taken to remove any rogues that may appear. All seed pods are removed avoiding all danger of mixture, as Purity does not come true from seed. Dealers getting their stock from me will always be sure of getting the purest stock.

For sale by the Leading Seedsmen :: :: :: ::

RUDOLPH FISCHER,
San Gabriel, R. F. D., Calif.

Dearborn Engraving Co.

Designers, Printers & Engravers

1322 Wabash Ave., Chicago.

...Engravers for this Paper.

DAHLIAS.

Now is the time to place your order for Bulbs which will insure you getting named varieties in any quantity; delivery to be made this winter or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc. ATCO, N.J

H. N. BRUNS,
1407-11 W. Madison St., CHICAGO.
LILY OF THE VALLEY.

seed at a price for which they cannot afford to take the pains that should be taken. All retailers are up against all of the mistakes of everyone connected with the growing and distribution of seed, as well as his own, and the man is not yet made who does not make mistakes. At present I am testing the most important seeds before selling them. It is possible to do this with Grand Rapids forcing lettuce seed, Vick's Globe radish and other seeds, for which there is a general demand and that retain their vitality long enough to allow it.

NON-GUARANTY CLAUSE.

In regard to the non-guaranty, you can readily see why a retailer cannot be responsible for the crop. Each of you gentlemen can buy enough lettuce, radish, cucumber and parsley seed for your plants for from $2 to $5 and, if it were all profit, I could not make more than the price paid for the seed, but if your crop was a failure on account of poor seeds I might be compelled to pay you several thousand dollars. See the opportunity it would give to a dishonest farmer or gardener, as all failures are not caused by poor seeds. I have known customers to have poor crops of vegetables when others with the same seeds on different ground, or planted at a different time, would have good crops.

There is but little excuse for selling seeds of poor vitality as they can be easily tested; except that during the rush of selling, when we have to reorder, there may be times when it is impossible to test, and I do not believe when seeds fail to germinate in more than once out of 100 times that it is the fault of the seed. I recall an instance a few years ago. I sold one of our best gardeners 12 pounds of an extra fine strain of Vicks' Globe radish. Now he is a fair-minded man and a warm personal friend of mine, not given to kick without cause. He sowed part of the seed and it did not grow. I think he gave it another trial and finally brought the balance of the seed back and said he could not use it. I tested it again and got a good germination. Frank Strong had the same seed and had a good stand, as did others at the same time. I had no more complaint. One gardener failed to make it grow in his greenhouse but planted it outdoors in the spring and nearly every seed grew.

The non-guaranty is to protect the dealer against the dishonest or unreasonable grower. There is no reputable seedsman who will not look into the complaints, and if he believes the seed at fault will be fair. I have paid out a good many hundreds of dollars in the past 13 years for seeds that I believe were wrong and, one strange thing about it, whenever I have had trouble of this kind I have settled for more of the seeds that caused the trouble than I sold. Not that they meant to be dishonest, but reported the amount they bought from memory and got it a little higher and, unless they bought the seed on time, I had no record and took their word. I hope to see a good effective law enacted by congress that will protect both the grower and the dealer, while it places the blame where it belongs for poor seeds and will not put any reputable seedsman out of business. Now, gentlemen, our interests are identical. Let us work together and each try to be fair with the other. I believe people are beginning to understand that good seeds are cheapest and I believe that conditions governing the seed trade are improving very rapidly.

Imports.

During the week ending May 29 imports were received at New York as follows:

J. Roehrs Co., 32 cases plants.

Vaughan's Seed Store, 18 cases plants.

McHutchison & Co., 3 cases plants.

Maltus & Ware, 71 pkgs., 2 cases plants.

F. B. Vandegrift & Co., one case plants.

P. Henderson & Co., 80 bbls. grass seed.

To others, 34 cases, 70 pkgs. plants, 48 tubs laurel trees, 100 bbls., 93 bags seeds.

SEATTLE, WASH.—The Chas. H. Lilly Co. writes: "The crop of cabbage this year will be only fair. Our stocks were hurt last winter by the extremely cold weather, but we are having a favorable season this summer."

"WHAT is your member of congress noted for?" "Well," answered Farmer Corntossel, "around here he's mostly noted for arguments that won't go down and seeds that won't come up."—Washington Star.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

ASPARAGUS PLUMOSUS NANUS.

Northern greenhouse grown seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

BULBS Cut Prices to Close Out I Must Move Them.

TUBEROSES Very Fine Bulbs, Good Bloomers.

Plump, 3 to 4-inch.....Per 100, $ .40; per 1000, $3.00
Fine, 4 to 6-inch.....Per 100, .60; per 1000, 5.00
Monster, 5 to 7-inch.....Per 100, .75; per 1000, 6.50

CYCAS STEMS.
2 to 10 lb. stems.
Per lb. 7c. Per 100 lbs. $6.50

Spotted Leaf Callas.
Per doz. 50c. Per 100, $3.00

Tuberous Roooted Begonias
Look at this Price!

Fine Bulbs.
Single mixed.....$1.50 per 100
$12.00 per 1000.

ASPARAGUS PLUMOSUS NANUS SEED.
Fresh and fine,.....per 100 seeds, 25c.; per 1000 seeds, $2.50.

STOKES' SEED STORE, 219 Market Street, PHILADELPHIA, PA.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors.....½-oz. 60c; oz. $4.00
Pure white.....½-oz. 75c; oz. 5.00

H. E. FISKE SEED CO.,
Faneuil Hall Square. BOSTON, MASS.

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

Reliable Seeds, SOW NOW

PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

EARLY spraying of the onion crop with Bordeaux mixture is recommended as a preventive of and cure for mildew.

Nitrate of Soda Outdoors.

There is hardly another subject which brings up such a diversity of opinion as the use of nitrate of soda. There is no doubt that many gardeners derive great benefit from its use; on the other hand there are numbers who have used it without success. In such a case we must not condemn the article; we should rather look for the reasons. The writer has used nitrate of soda for years, with all kinds of results, and under many varying conditions. The amount that can be used with benefit, depends entirely upon the amount of other elements in available conditions—in other words, upon the amount of available phosphate and potash in the soil. This means that poor land will take only a small amount of soda, good land more, and rich land a great deal. This is just the opposite of what a beginner expects; he naturally wants to use it on poor soil, hence his failure.

Nitrate of soda is more dependent upon potash than upon phosphates. Realizing this, we have for some time, made it a rule to always apply soda in mixture with sulphate of potash. At present we are using one-half the weight of soda, in sulphate potash of high grade. The results are extremely gratifying. This mixture is used as a top dressing, generally broadcasted—where we have used manure and complete fertilizer before planting and the nitrate potash application is made after the crop has started. We screen the soda through one-eighth-inch mesh, to get fine division, and pulverize the potash, and mix intimately. It improves both chemicals, makes the soda more dry and prevents the potash from blowing away in windy weather.

Applied at the rate of sowing grass seed, at intervals of two weeks, crops can be forced remarkably. To derive benefit from nitrate of soda, it should be used on young plants; they need it most, and its greatest value is in the spring months, when the soil temperature is too low for the formation of organic nitrates. To the market gardener a gain of a few days means either gain or loss with many crops—that is, the prices obtained for crops ahead of the general run, are so high, that it will pay to use the nitrate. Some claim that nitrate of soda impoverishes the soil. This is true in this sense only—that the increased growth demands more phosphates and potash which, if not supplied, must come from the soil finally. A crop is entirely dependent upon soil moisture; a soil full of humus holds most moisture, hence will give largest returns; while a purely mineral soil will lead to disappointment. MARKETMAN.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Cucumbers in England.

Only those who are specially engaged in the trade can estimate to the full the value of a clean growing crop. We are more than fortunate with our March-planted stock, as not only is the cutting good, but the plants are the picture of health. Three houses followed on after a successful flower cutting season from bulbous stock. After cucumbers chrysanthemums will follow; thus the houses are engaged all the year. With the early March-planted cucumbers, the minimum amount of fuel is consumed. Now as to varieties, we have several in use; but our attention was called to the Rochford's Market, not only on the plants, but also on the packing bench when cut. As the Americans have it, our cucumbers are too large, and certainly this variety is large, but is quickly grown. Butcher's Disease Resister is too long in the neck for first fruits, running out of this later on. The newest addition from Worthing is Sparkes' Exporter. It is a very prolific variety, but lacking the size of Rochford's. Those who, like myself, can go back to the days of Rollison's Telegraph appreciate the present varieties for marketing.

How long can houses of cucumbers be kept clean and healthy without the aid of syringing the foliage is a question, but up to now all is right. Regular stopping and tying, with a weekly surfacing, are first-class aids to successful cucumber growing. An overload of young fruit may be well thinned out early, so that while less fruit is being developed the plants are given a new lease of life in their young bearing days. Cucumbers, to be well grown, must never get out of the grower's control; the result will be disappointment. —Journal of Horticulture.

Canadian Potatoes for United States.

Consul A. G. Seyfert writes from Owen Sound that the demand for potatoes in the United States this spring has been a good thing for the Canadian farmers in that district. The soil and climate there are well adapted to the raising of large crops of an excellent quality of potatoes. American buyers have bought and exported over 50,000 bushels during the months of March and April from that locality. The most of them were shipped to Cincinnati, Indianapolis, Chicago and Pittsburg. The average price paid was 50 cents a bushel. The first boat that left the Owen Sound harbor had 7,500 bushels on board for the Canadian northwest. The price paid was about 15 cents a bushel more than in other years, caused by American demand. The potato is one of the main crops of the Georgian Bay farmer, and he raises 200 to 350 bushels to the acre. Commenting on this the bureau of manufactures, in the Daily Consular Reports, says: "The imports of potatoes into the United States this spring have been enormous. The receipts for the first three months of 1909 were 3,629,158 bushels, against 128,676 bushels in the same period last year. Heavy cargoes have come from Europe, and shipments have even been made from Mexico to this country."

THIS SEASON'S FRESH

MUSHROOM SPAWN

which is now being supplied by

JOHNSON'S, LIMITED,

(The actual makers.)

IS IN SPLENDID CONDITION.

All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.

Correspondence invited for **OVER-SEA ORDERS.**

Special quotations for large quantities.

Prices and particulars on application to

JOHNSON'S, Limited,

44 Bedford Row, LONDON, ENGLAND.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10 000 and over	85
Beets, Crosby, Egyptian and Eclipse	1 25
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 25
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	3 00
Chinese Giant and Cayenne	50c per 100

— Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 99 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

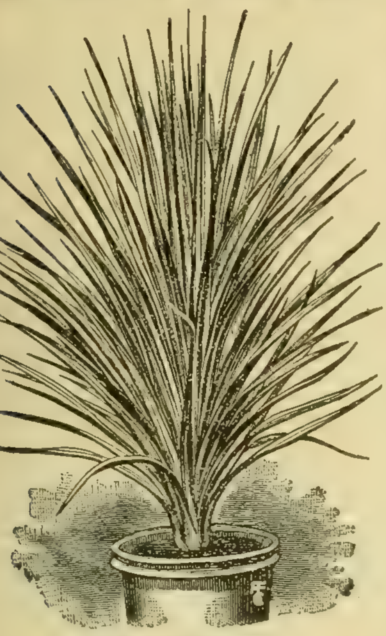
Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St.Paul, Minn**

Prices of Indoor Fruits and Vegetables.

The prices of indoor vegetables at leading points May 29 were as follows: New York, cucumbers, 50 cents to $1 per dozen; mushrooms, 60 cents to $1 per pound; mint, 35 to 75 cents per dozen bunches; tomatoes, 25 to 30 cents

Fine Plants for Window Boxes



DRACENAS,

4 inch......12c. 5-inch......20c each.

	Per 100	1000
Geraniums, standard varieties.		
2¼-inch	$3 00	$25 00
3 inch	6 00	57 50
Lobelia, compacta and speciosa		
2¼-inch	2 00	
Petunias, 2¼-inch	2 50	
3-inch	5 00	
Vinca Variegated, 2¼-inch	2 50	

Asparagus Plumosus, 3-in. 6c; 4-in. 10c.
Asparagus Sprengeri, 2¼-in. 2½c; 3-in. 5c; 4-in. 10c

MOSBAEK GREENHOUSE CO.
ONARGA ILL.

ARAUCARIAS

EXCELSA

Fine Stock

5-in. 3-4 whorls, 12 to 14-in. high, each, **75c** doz. **$8.00.**

6-in. 4 whorls,, 14 to 16-in high, each, **$1.00** doz. **$11.00.**

6-in. 4 whorls, 16 to 18-in. high, each, **$1.25** doz. **$14.00.**

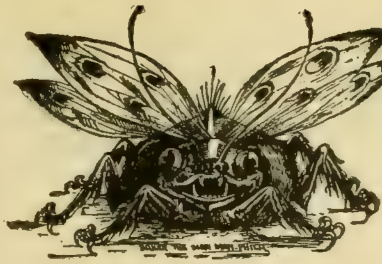
VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.

25 Barclay St., NEW YORK.

per pound; grapes, $1.15 to $1.50 per pound; cantaloupes, $1 to $1.50 each. Chicago, cucumbers, $1 to $2 per dozen; head lettuce, $3 to $6 per barrel; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, $1 to $2 per pound; peaches, $15 per dozen; English melons, $15 per dozen; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City, cucumbers, 65 cents to $1 per dozen. Cincinnati, cucumbers, 50 to 60 cents per dozen; mushrooms, 40 cents per pound. Boston, cucumbers, $3.50 to $4 per box.



LOOK! LOOK! LOOK! A big stock of

SURPLUS

Bedding Plants

Larger and better than ever before, to make room to place our large importations of Palms, Araucarias, Rubbers, Ferns, etc.

MUST GO AT STINGING LOW PRICES.

Per 100

Geraniums, 4-in.. Alphonse Ricard, large, double, dark red, one of the best; Albion, single, white; Jean Viaud, double, pink; Poitevine, Ivy-leaved, and other varieties..$7 00
Cannas, King Humbert, 4-in.... ....10 00
" Bismarck, Barrett, Poitevine, Black Beauty, Henderson, Italia 4-in...... 7 00
Dracena Indivisa, broad-leaved, imported stock, big plants... ....50c to 75c each
Scarlet Sage (or Salvia), the true Clara Bedman or Bonfire. Ours is the true medium tall genuine variety: deep red, brilliant flowers; a constant bloomer, so much admired in the capital cities of Europe and America. The seeds of this famous variety were gathered by myself in Zurich Switzerland, the home of Salvia. Price 4-in. pots. 7 00
Ageratum, best blue, dwarf varieties, 4-in., in bloom 7 00
3-in. pots.............. 3 00
Heliotrope, best blue, dwarf varieties, 4-in. in bloom 7 00
Begonia Vernon, newest strain, the so well known dark variety, of our own importation. Seeds selected from the best specimen plants by myself during my trip in Switzerland and France. On that account these varieties thrive well in the hottest climate, exposed direct to the heat of the sun in July and August: a constant bloomer: therefore it is very valuable as a bedder, and in many instances takes the place of Geraniums, etc. 4-in. pots............. 8 00
Begonia Flambeau, or Octavie, sells on sight, valuable for window boxes and vases; their fine waxy foliage gives them a beautiful appearance. 5¼-in. pots ..$2 00 per doz.
Fuchsias, in bloom, 4-in............. 7 00
Lantanas, assorted, 4-in............ 7 00
Nasturtiums, assorted, 4-in.......... 6 00
Stock, German Ten Week 7 00
Vinca Variegata (Periwinkle), 4 in.........12 00

SMALL PLANTS.

Petunias, California Giant, 3-in. pots....... 4 00
" Inimitable (dwarf), 2½-in......... 3 00
Verbenas, assorted, in bud, 2½-in.......... 3 00
Coleus, Verschaffeltii, Golden Bedder and Queen Victoria, 2½-in. pots.............. 3 00
Coleus, fancy leaved, 2½-in.............. 4 00
Tagetes, or French Marigold 3-in.......... 3 00
Centaurea Gymnocarpa or Dusty Miller 2½-in.................. 3 00
Parlor or **German Ivy,** 2½-in 3 00
Salpiglossis, 2½-in. to 3-in 3 00
Lobelia Compacta, Trailing and Crystal Palace Blue..................... 3 00
Kenilworth Ivy, 2½-in.................. 3 00

Per 100

Tradescantia, two best colors, 2½-in.......$3 00
Thunbergia or Black Eyed Susan, 2½-in.... 3 00
Sweet Alyssum, Little Gem, 2½-in........ 3 00
Asparagus Plumosus, 2 in..$25 00 per 1000 3 00
" 3-in 4 00
Cuphea or Cigar Plant, 2½-in.. .... 3 00
Vinca Variegata (Periwinkle), 3 in..$4 00 to 5 00
Cosmos, 4 best early varieties, made up 3 plants in a pot............................ 4 00
Summer Chrysanthemums, 3 to 4-in. pots 5 00
Asters, Victoria, German, 5 best sorts... 3 00
Honeysuckle, large, 6-in 50c
Rose Bushes from cold frames (not in bloom), Crimson Rambler, D. Perkins, Lady Gay, 5½ to 6-in. pots...... 25c to 30c each
Ampelopsis Veitchi, 4-in. pots (small size). 10c
Dianthus Chinensis, pink, 2½-in. 3c each

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants, **Araucaria Robusta Compacta, Glauca** and **Excelsa.** ☞ Florists, bear in mind there is no garden, lawn or porch, etc., in the summer that is complete without the Araucarias: therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful snd beautiful, Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old, 5-6-7 tiers, 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation, 40c-50c. Can meet all applications.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c to 30c.

Kentia Belmoreana and **Forsteriana,** big plants, only $1.25, $1.50, $2.00 each.

Just arrived, per steamer Manitou, from Australia, a big consignment of **Palms and Araucarias,**

Moonvine, Moonvine, Aschmann's worldwide known and celebrated **Moonvine** (Ipomœa Noctiflora). Price: 4-in. pots, $12.00 per 100; 3-in., $8.00 per 100; 2½-in., $5.00 per 100.

10 at 100 rates. Please state if in or out of pots. All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., **Philadelphia, Pa.**

Importer, Wholesale Grower and Shipper of Pot Plants.

PETUNIAS

Per 100

Seedlings from double seed, 2½-in. pots..........................$2 50
Asparagus Sprengeri, 2¼-in. pots, 2 00
Asparagus Plumosus, ready July,.. 2 00
Pansy, new crop July 1, per oz.....................$4 00

GERANIUMS

Per 100

8 varieties, 3 to 3½-in. pots, my selection..........................$4 00
Smilax, ready July...................... 1 25
Primroses, ready July 10............. 2 00

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

15,000 S. A. Nutt

Geraniums, strong, bushy plants in bud and blooom.

The Parker Greenhouses, Norwalk, O.

COLEUS In 10 Very Best Varieties.

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones, **$2 00 per 100; R.C., 75c per 100, 6.00 per 1000.**

ASPARAGUS SPRENGERI, extra strong, 2¼-in. pots, $2.00 per 100; $18.00 per 1000.

WALTER W. COLES, Kokomo, Ind.

For RELIABLE STOCK From RELIABLE DEALERS Keep Tab on Advts. in THE FLORIST

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.
Thirty-fourth annual convention to be held at Rochester, N. Y., June 9-11, 1909

MILWAUKEE, WIS.—F. Law Olmsted, of Brookline, Mass., has been selected as landscape expert of the Metropolitan park commission.

BLOUNTVILLE, TENN.—The Globe Nursery Co. is busy on the 500 acre farm purchased last season of J. M. Fain nearly 80 acres of the land being already in cultivation.

CHICAGO.—Those interested have little doubt that the forest preserve district, authorized by the bill just passed at Springfield, will be very popular and that the sentiment of the people will be overwhelmingly in its favor.

DO not spray regularly and indiscriminately, but watch the trees closely and spray on the first indication of its being necessary is the advice of a well-known British authority. This seems good advice tending both to economy and efficiency.

EARLY SPRING is described by the Department of Agriculture as the best time to plant willow cuttings for basket and other work. Wood one year old is the best, and the cuttings should be planted as thickly as possible consistent with keeping the soil clean by cultivation.

THE Vermont Agricultural Experiment Station has issued an illustrated leaflet on the gypsy and brown-tail moths advising growers to be on the watch for these destructive insects and send specimens to the experiment station at Burlington. The illustrations show the insects at various stages, the eggs and methods of control. The most effective of these are soaking the eggs with creosote in fall, winter and spring and cutting off and burning the webs in winter.

NORTH WALES, PA.—Thaddeus N. Yates & Co. write: "In reference to the note in THE FLORIST of May 29 will state that we wish to correct statement made regarding our nursery at North Wales. Wm. M. Frost of Germantown was the purchaser of the ground. He did not purchase any of the nursery stock and we expect to continue in business as we have made a very satisfactory lease with the new owner. Mr. Frost simply bought the ground for an investment and we sold him the ground, but not any of the nursery stock."

THE premium list of the sixth annual exhibition of the American Peony Society, to be held June 8-9 at the Cottage Gardens, Queens, N. Y., is to hand. In the commercial classes there are 27 prizes ranging from $15 to $5 for collections and individual varieties, while in the amateur classes there are 14, ranging from $5 to $2. Entries must reach Manager R. T. Brown, Cottage Gardens, at least two days before the exhibition opens and all express charges on exhibits sent must be prepaid. Consignments must be sent addressed Cottage Gardens Co., Queens, Long Island, N. Y.

LAST SUNDAY, May 30, was "Lilac day" at Highland Park, Rochester, N. Y. It was estimated that from 30,000 to 35,000 people visited the park during the afternoon. The lilac collection comprises about 193 varieties, and while they were not in full flower they looked remarkably beautiful in the partly expanded clusters and unopened buds. The park, though, was a harmonious medley of flowering trees, shrubs, perennials and late blooming tulips. Early blooming azaleas and rhododendrons, crabapples, redbuds, spiræas, white-flowering dogwoods, ornamental pears and late flowering plums were some of the things that added

Native Forest Cover at Seattle Exposition.

See Last Issue, Page 901.

brilliancy to the scene. The park band of 50 trained musicians played during the afternoon in the pavilion. The weather was delightful, and the well-dressed crowds, all quiet and orderly, parading or resting on the gentle slopes, formed a scene that perhaps could not be duplicated in any other place on the American or European continents.

Trees and Shrubs at Rochester, N. Y.

The flowers on all spring-flowering trees, shrubs and perennials have extended considerably beyond the duration of their usual periods on account of the prevailing cool conditions and the abundance of moisture in the ground. Ornamental peaches, plums, cherries, crab-apples, magnolias, spiræas and most other shrubs have all flowered most profusely. Lilacs appear to be the only shrubs that are shy in blooming this year, but there is enough of them to be interesting. The double flowering peaches, with respectively pure white, pink and dark red flowers, were in full bloom on May 15. The double white-flowering peach with flowers almost two inches in diameter is a very beautiful object in bloom.

Watson's plum (Prunus Watsoni) was in full bloom on May 17. It forms a dense compact shrub and is quite showy in bloom. The beach plum (Prunus maritima) was in full bloom May 20. Although a common wild shrub along the Atlantic seacoast from Virginia northwards, it is a handsome shrub in cultivation. Prunus Utahensis was in full flower May 23. The branches, covered with numerous three-flowered clusters, are very showy. The European bird cherry (Prunus padus) came into flower May 18 and is now in fairly good bloom.

Magnolia Lennei opened its first flowers on May 18. The blossoms, with their purplish red exteriors, are very attractive. Magnolia Berozzoni, which we mentioned in last notes as coming in bloom on May 14, remained in good bloom for 10 to 12 days. It is a noteworthy form. The blossoms are frequently five inches in length, pure white, with a purplish pink tinge towards the base on the outside. Magnolia obovata came into bloom May 20. In a severe winter this suffers considerably unless well protected. It is flowering unusually well here this season. The purplish red flowers are attractive. Magnolia Soulangeana nigra, which does not appear to have any resemblance to M. Soulangeana, but may possibly be a seedling from it, came in flower about May 23, and was in full flower May 25. It is the darkest flowered magnolia we have. The blossoms are dark purplish crimson outside and deeply tinged with purple red inside.

The bridal wreath (Spiræa prunifolia floreplena) was in fairly good bloom on May 15 and made a good show for 10 days. S. Media (confusa) came into flower May 23 and is now in good bloom. S. Pikowiensis is now at its best. The branches are thickly covered with white clusters and are very showy. The flowering currant (Ribes aureum) came in flower May 15. The yellow flowers are showy, and their pleasing fragrance perfumes the air in its vicinity. The alpine currant (R. alpina) came in bloom about the same time. The greenish yellow clusters are attractive and the compact dense habit renders it a good decorative shrub.

The Japanese crabapple (Malus floribunda) came in flower May 21. The reddish buds and the rose-tinted blossoms are very showy. The variety Atrosanguinea, which blooms at the same time, has dark purplish red blossoms and is a handsome form. They are now in good bloom. What a glorious revelation of beauty these crabs are. There are handsome specimens in Highland Park, which are surrounded by admirers, every afternoon, when in flower. Parkman's crab (M. Parkmani) came in bloom about the same time as the last and has semi-double, deeply rose-tinted nodding blossoms which are remarkably handsome. The Chinese crab (M. spectabilis) is now in good bloom and the semi-double pinkish red, or reddish rose blossoms are beautiful. The Siberian crab (M. baccata) has large white or whitish blossoms and is now passing out of flower. The dwarf crab (M. Toringo) has pinkish white flowers resembling M. floribunda and is now in good bloom. A crab-apple recently introduced from Siberia (M. Niedwetzkyana) was in flower May 23 with large reddish flowers. The garland crab (M. coronarius) came in flower May 28 and the fragrant pinkish rose blossoms are remarkably pleasing.

Viburnum Carlesi, a new species from China, introduced by a Japanese firm, who sold the stock of it to the Lemoines of France, gives every promise of being a most important and valu-

able ornamental shrub. It was in full flower May 20 and the flowers remain in good condition for about 12 days. The buds, before expanding, have a pink tinge and the open flowers have a rosy white appearance and are about three-fourths of an inch in diameter and have a most agreeable perfume. The oval, dentate, bright green leaves bear a little resemblance to V. Lantana. It has been in the nursery for two winters in a cold exposure and seems to be quite hardy. We feel certain there will be much demand for this handsome shrub when it becomes known, and any nurseryman who can secure a good stock of it will be fortunate. Viburnum Lantana came in bloom May 23 and is now showy. V. Wrighti is now unfolding (May 29) its flat cymes. The buds before opening have a perceptible brownish pink tinge. V. tomentosum is just coming in bloom. JOHN DUNBAR.

Montana Forest Notes.

John S. Preston, deputy supervisor of the Bitter Root national forest, left April 26 for Trapper Creek, where he will look after the establishment of a proposed forest nursery at that place. It is planned to set aside several acres of land in that vicinity, which will be planted with tree seeds and seedlings, in pursuance of the general plan of conservation of the national forests.

Alfred Grigg of Sterns has been appointed assistant ranger on the Missoula national forest and is now stationed in the country north of Ovando.

Henry Kroger of Phillipsburg has been appointed as a guard on the Missoula national forest and was assigned to duty May 1.

Proposed City Nursery for Chicago.

Picturing the tree as a sanitary and prime factor in the beautification of a city, City Forester Prost in an address at the conference of women's clubs at the Esther Falkenstein settlement house recently urged the establishment of a municipal nursery and subsidiary branches. The new forester declared that eastern cities have found women's clubs of great assistance in the elimination of obstacles which confront such movements. He asserted that the cultivation of an adequate number of trees cools and shades communities, thus lowering the death rate among children and aged men and women.

Mr. Prost, who was making his first public address since his appointment, discouraged the raising of box elders in the Twenty-eighth ward and suggested the cultivation of Carolina poplars and elms. Mrs. Falkenstein deplored the lack of a field house playground in the community for the benefit of children and mothers.

LARGE TREES.
OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
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Jacs Smits, Ltd., NAARDEN (Holland.)
Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,
Price List Free on Demand.

H. M. Hardyzer
BOSKOOP, HOLLAND
Wholesale Grower and Exporter
I wish to call special attention to the exceptionally fine stock of
Hardy Hybrid Rhododendrons
in all the leading varieties, such as Parson's Grandiflorum, General Grant, Caractacus, F. D. Goodman, Delicatissima, Album Grandiflorum, Album Elegans, etc.
Hardy Azaleas
in the best named varieties, and **Azalea Mollis Seedlings.**
Extra choice
Lilacs, Rhododendrons, and a full line of other plants for forcing.
Blue Spruce, Juniperus, Retinospora, Etc.
All in the best hardy varieties for the American climate.
H. P. Roses, Boxwoods and Peonies in large quantities.
Represented at the Convention by **MR. JAN RYKEN.**
Sole American Agent:
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BOX TREES.
We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2½ ft	$2 00	$3 75	4 ft	4 00	7 00
3½ ft	$3 00	$5 50	5 ft	7 00	13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$8 00	18-22 in.	30-32 in	$5 50	$10 00
				22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c. per doz., $4 00
18 to 24 in. high.....Each, 60c. per doz., $6 00

All Plants F. O. B. Western Springs, Ill.
VAUGHAN'S SEED STORE,
84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
Book for Florists, Spring Edition, Now Ready.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,
AND OTHER DECORATIVE MATERIAL
Evergreens In all Choicest Varieties. **Clematis** And all other Vines and Climbers.
Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.
We shall be pleased to give special prices on lists.
ASK FOR WHOLESALE CATALOGUE.
BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

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PAINESVILLE NURSERIES.
CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....
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ARBOR VITÆ
(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

The Early Ad. Catches the Coin.

STOP! LISTEN!

No Finer Stock Was Ever Shipped. Send for Sample.

ROSE PLANTS:

AMERICAN BEAUTY	3-inch pots,	$7.00 per 100; $60.00 per 1000
" "	2½-inch pots,	5.00 per 100; 45.00 per 1000
RICHMOND	3-inch pots,	4.00 per 100; 35.00 per 1000
CHATENAY	3-inch pots;	4.00 per 100: 35.00 per 1000
MAIDS	3-inch pots,	4.00 per 100; 35.00 per 1000
ASPARAGUS SPRENGERI	4-inch pots,	$8.00 per 100
" PLUMOSUS	3-inch pots,	5.00 per 100
SMILAX	3-inch pots,	4.00 per 100

United States Cut Flower Co.

ELMIRA, N. Y.

Use of Poisonous Gas to Destroy Insects.

It is now more than 20 years since the first attempts were made to destroy scale insects on fruit trees by means of a poisonous gas. The gas used is known as hydrocyanic acid gas, and it is extremely poisonous to human beings and domestic animals as well as to insects. This method has gradually increased in popularity until it has largely displaced all others in the orange and lemon orchards of California.

In order to use the gas effectively the tree is covered with a tent. A small quantity of sulphuric acid is dissolved in a small quantity of water in a jar which is placed on the ground in the tent. The proper amount of potassium cyanide is weighed out, carried into the tent by the operator and dropped into the jar, after which he gets out quickly, closing the tent after him. The gas forms very quickly, rises, and fills the tent, destroying all or most of the scale insects within an hour. The tent is then taken down and placed over another tree. In the use of this gas there have been a variety of methods employed, much variation in the amount of chemicals used, and much difference in the results secured. In order to determine the most satisfactory methods and proportions of chemicals, the Department of Agriculture sent out an expert fumigator to the Pacific coast to conduct a series of experiments with hydrocyanic acid gas. The first report on this work has just been published in a bulletin entitled "Fumigation Investigations in California." By an extensive series of experiments with trees of different sizes, with different proportions of cyanide, sulphuric acid, and water, and fumigation at different seasons, the experimenter has determined the most economical and effective method of dealing with the purple scale and his recommendations are now being followed by many successful fumigators. These experiments will be continued and extended so as to cover every phase of the work against all the principal scale pests. It is believed that this work will result in a great saving to the citrus fruit growers of California, and at the same time make fumigation more uniformly effective.

OUR NEW CARNATION **SHASTA**

Is always pure white, is always in bloom and is always high grade.
$12.00 per 100; $100.00 per 1000. Send orders **now** to
PATTEN & CO., Tewksbury, Mass. **BAUR & SMITH,** Indianapolis, Ind.

MARY TOLMAN

A new light salmon pink carnation for 1910.
$12.00 per 100. **$100.00 per 1000.**
CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.
$12.00 per 100. **$100.00 per 1000.**
A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

A New Seedling Carnation :: :: :: **Conquest**

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

White Killarney

It is needless to say much about the value of this

NEW WHITE ROSE

its value is so well established. In support of this statement, we might say that we intend to plant not less than 20,000 for our own growing. We have a splendid stock of both grafted and own root plants which we can deliver immediately on receipt of order—gilt-edged planting stock. We guarantee perfect satisfaction.

Strong plants, 2¼-in. pots, own root.....$30 00 per 100; 250 for $70 00; $250 00 per 1000
Grafted plants..... 35 00 per 100; 250 for 82 50; 300 00 per 1000

HYDRANGEAS In bud and bloom

We offer fine plants well budded, just beginning to show color; in splendid shape for immediate use.
6-in. pots, 4 to 5 blooms each.....$9 00 per doz.

LARGE PLANTS IN TUBS

We have a large stock of splendid plants, grown in tubs and half barrels, **for July aud August flowering.**
Fine plants in tubs.....$2 00 each Extra large plants in half barrels.....$5 00 each

A Few Seasonable Specialties

Boxwood, Pyramidal, fine plants, 3 ft. high.....$2 00 each
4 ft. high.....$3 00 each 4½ ft. high..... 4 00 each
Rubber Plants (Ficus Elastica), very large, bushy plants, in tubs, 4 ft. high, fine for summer decoration..$3 50 each
6-in. pots, 3½ ft. high.....$ 9 00 per doz.
Pandanus Veitchi, fine plants, 6-in. pots..... 12 00 per doz.
Phoenix Roebeleni, extra fine plants, 5-in. pots..... 18 00 per doz.
Crotons, strong plants, 3-in. pots..... 3 00 per doz.
5-in.pots.....$6 00 per doz. 6-in. pots..... 9 00 per doz.

Cannas., Beaute de Poitevine, Buttercup, Souv. d' Antoine Crozy, Pierson's Premier, Mlle. Berat, L. Patry, Florence Vaughan, etc. Per 100
Strong, started plants, 3½-in. pots.....$6 00
Dormant roots.....$25 00 per 1000 3 00
Caladium Esculentum, started plants..... 6 00
Geraniums, Double Gen. Grant, extra fine plants, 3½-in. pots..... 8 00
Geraniums, assorted, 3½-in. pots..... 8 00
Vinca Variegata, 4-in. pots, extra heavy.....12 00
Nasturtiums, 3-in. pots..... 4 00

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

"BUSINESS NECESSITY"

Edition of 1909, Postpaid, $3.00.

THIS is the only term which describes the American Florist Company's Directory, just out. This book, 548 pages of facts tersely told, is issued annually and is an aid to business and money making which no wholesaler or traveling salesman can afford to be without. It contains the name of every Florist, Nurserymen and Seedsmen, arranged both by states and towns and alphabetically; and lists of experiment Station Horticulturists, Landscape Architects, Horticultural Supply Concerns and Leading Foreign Firms. It will save many times its cost by enabling you to cover America with your catalogue and at the same time waste no printed matter or postage on dead names.

AMERICAN FLORIST COMPANY,
324 Dearborn Street CHICAGO.

A Ready Reference Manual.

Surplus Stock

From 2½-inch pots.
Clean, thrifty stock.

	Per 100	1000
ROSES, mostly summer propagated: Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay, Minnehaha, Philadelphia, White and Yellow Rambler	$3 00	$27 50
Anny Muller	3 50	30 00
Baby Rambler	2 75	25 00
White Baby Rambler	3 00	27 50
Asparagus Plumosus Nanus	3 00	25 00
Asparagus Sprengeri	3 00	25 00
Hibiscus "Peachblow"	3 00	25 00
Jerusalem Cherry	3 00	25 00
Lemon Ponderosa	3 00	25 00
Palm Areca Lutescens	4 00	35 00

Jackson & Perkins Co.
Newark, New York.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

.....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

Finest Roses we ever turned out. Send for samples of what you want.

	2½ in	3-in		2½-in.	3-in.
Am. Beauty	$6.00	$8.00	Uncle John	$2.50	$5.00
Kaiserin	4.50	6.00	Wootton	3.50	5.00
Bride	2 50	5.00	Richmond	3 50	5 00
Ivory	2.50	4.50	Perle	3 00	5.00
Chatenay	2 50	4.50	LaFrance	4.50	6 00
Bridesmaid	2.50	5.00	Killarney	4.50	6.00
Golden Gate	2 50	4 50			

Our Rose stock is better than ever. Perfectly healthy. Samples submitted.

GEO. A. KUHL, Wholesale Grower, **PEKIN, ILL.**

'Mums 'Mums 'Mums

5,000 Golden Glow ready, R. C. and 2½ in.; R. C., $27 00 per 1000; 2½-in., $35.00 per 1000. **2,000 Pacific Supreme** and **White Cloud,** at same price. **Dorner's new Golden Eagle,** $10.00 per 1000. No more Virginia Poehlmann (sold out) until July 1. All standards. Frost, Touset, Enguehard, Golden Wedding, Appleton, Nonin etc., 2½-in., $2.50 per 100, $23 00 per 1000; R. C one-third less.

I. M. RAYNER, Greenport, L. I., N. Y.

ENGLEHART, ONT.—D. Kerrigan is now superintending the park systems on the Temiskaming and Northern Ontario railway and is building a King Construction greenhouse 30x75 feet for growing bedding stock.

PHILADELPHIA PA A fine exhibition of peonies was held at Horticultural Hall under the auspices of the Pennsylvania Horticultural Society May 27. Although not a large show, the quality of the flowers was excellent.

LOS ANGELES CALIF.—T. Takahashi, proprietor of the New Yokohama Nursery, was painfully injured May 20, when his horse ran away and dragged him more than a block. Mr. Takahashi, who was pulling hard on the lines, was thrown over the dashboard. His right leg was fractured above the knee. He was treated at the hospital, and later removed to his home near Eastlake park.

SEASONABLE STOCK

	2-in. Per 100	3-in. 1000
GERANIUMS, good assortment	$2 00	$3 00
Our selection, 10 good kinds	.....$15 00 per 1000	
Ageratum, 5 kinds	2 00	3 00
Cannas, J. D. Eisele, Egandale, Alph. Bouvier, Mme. Crozy, Florence Vaughan		4 00
Jean Tissett, President Myers, Louisiana, Pennsylvania		5 00
Centaurea Gymnocarpa	2 00	3 00
Cineraria Maritima Candidissima	2 00	3 00
Hardy Chrysanthemums, Small flowering	2 00	
Large flowering	3 00	

	2-in. Per 100	3-in 1000
Dahlias, pot plants, standard kinds and up to $6 00 per 100. Jack Rose, Virginia Maule, Big Chief	2 00	
	.....50c each.	35 00
Hardy English Ivy	2 00	
Lemon Verbena	2 00	
Lobelia, Kathleen Mallard	2 00	3 00
Petunias, Dreer's Superb Single	2 00	3 00
Salvia Bonfire	2 00	3 00
Zurich	3 00	4 00
Senecio Scandens (Parlor Ivy))	2 00	3 00
Smilax, extra strong	2 00	
Tradescantia, dark variegated	2 00	
Verbenas, mixed colors	2 00	3 00

Not less than 25 at 100 rates; 250 at 1000 rates. Cash with order.

A Personal Inspection Invited. White Marsh is at Cowenton Station, B. & O. R. R., 15 miles north of Baltimore. We meet all trains.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

ROSES

	Per 100	1000		Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00	**Bride,**	$ 5 00	$ 45 00
" 3-in.	9 00	80 00	**Maid,**	5 00	45 00
" 2-in.	6 50	60 00	**Potter Palmer,** 2½-in	5 00	45 00
Rhea Reid, 2¼-in	5 00	45 00	**Kaiserin,** 3½-in	6 50	55 00

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now. R. C $2 50 per 100, $20 00 per 1000; 2½-in., $3 00 per 100, $25 00 per 1000
No more Virginia Poehlmann R. C or 2½-in. until June 15.
For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in ... $4 00 per 100; $35 00 per 1000
Smilax, 3-in ..... 4 00 per 100; 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash.
Terms: 30 days, net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

EARLY 'MUMS

Should Be Planted at Once for Best Results.

We have the following in quantity ready for immediate delivery. Also full quota of **MIDSEASON AND LATE SORTS** for those ready to plant. Price on application.

EARLY

Glory of Pacific, Ivory, Polly Rose,
Golden Glow, October Frost, Robert Halliday,

Price: $3 00 per 100; $25 00 per 1000.

Pacific Supreme ..... $4 00 per 100; $35 00 per 1000
Virginia Poehlmann ..... $5 00 per 100

Not less than 25 of a kind at 100 rate; 250 at 1000 rate.

ELMER D. SMITH & CO., Adrian, Mich.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond, Rose pots, $15.00 per 100; 3½ in. pots, $18.00 per 100. Brides, Bridesmaids Golden Gates, Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle, 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN WELL ESTABLISHED Plants

Kentia Belmoreana

	Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high	$ 6 00	$50 00
	Each	
6-in. " " " 22 to 24 in. high	$1 00	$12 00
6-in. " " " 24 to 26 in. "	1 25	15 00
6-in. " " " 26 to 28 in. "	1 50	18 00
9-in. tub " " 42 to 48 in. "	5 00	

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high ..... $ 4 00 each
12-in. " 4 plants, 6 feet high heavy ..... 15 00 each

Joseph Heacock Co., Wyncote, Pa.

BAY TREES

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS. Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

St. Louis.

BEDDING PLANTS SCARCE.

The weather is now summer like, and we have had plenty of rain. There seems to be quite a scarcity of bedding stock. Carnations and roses are showing the effect of the weather, and are daily becoming poorer. Loads of peonies are in. Sunday morning opened up raining steady. Closing of schools June 1-15 will see the last effort to hold up the season, and then we can look for summer dullness. Memorial day many flowers were used. Carnations brought three to four cents, and in many instances the quality was poor. A great many outdoor flowers were used, a good portion using flowers from their gardens for cemetery decorations. Everything was plentiful; hardy ferns were in demand, and appear to be scarce.

NOTES.

We regret to announce the death, May 28, of George Waldbart, Jr., son of Alexander Waldbart, after a lingering illness, of Bright's disease. He was 30 years of age, was a dutiful son and was buried from the family residence on Lawton avenue. Deep sympathy is extended to Alexander Waldbart, his wife and family, in their sad bereavement.

Paul Scheider, whose boiler burst and who had everything frozen up, intends to build two houses this summer for carnations.

W. F.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS.

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,

WEST GROVE, PA.

Roses-surplus

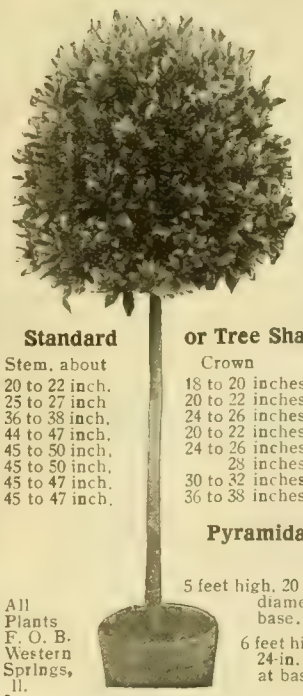
list now ready.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO.

AMES, IA.—"Decoration day business," says F. I. Olsan of the Olsanville Greenhouses, "increased over 20 per cent against last year; prices the same with plenty of home grown stock. About the same increase in bedding plants. We are sold out."

BAY TREES

(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard or Tree Shaped.

Stem, about	Crown	Each
20 to 22 inch.	18 to 20 inches	$ 4 00
25 to 27 inch	20 to 22 inches	4 50
36 to 38 inch.	24 to 26 inches	6 00
44 to 47 inch.	20 to 22 inches	6 00
45 to 50 inch.	24 to 26 inches	7 00
45 to 50 inch.	28 inches	8 00
45 to 47 inch.	30 to 32 inches	10 00
45 to 47 inch.	36 to 38 inches	12 00

Pyramidal Shaped.

	Each
5 feet high, 20 to 22-in. diameter at base	$ 7 50
6 feet high, 22 to 24-in. diameter at base	9 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

CHICAGO. NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

O. P. Bassett Carnation Plants

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Kaiserin 2½-in. Pot Plants, $4.00 per 100.

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$6 00	$50 00
Maids, grafted	4 00	30 00
Brides, grafted	4 00	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	4 00	35 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Rooted Carnation Cuttings

Victory. Beacon. Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.

Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At New York.

MAY 28.

The bowling team seems to have taken a new lease of life. Several of the old veterans, including John Donaldson and Harry Bunyard, were on hand for practice on the night of May 28 and they, with the remnant that has been hanging on and hoping against hope, made a fresh start. Donaldson made the highest score, with Bunyard second, as follows:

Donaldson	178	177	201
Bunyard	129	134	177
Shaw	133	122	121
Scott	137	139	158
Meconi	125	122	137
Faulkner	131	100	...

Why He Perished.

"What happened to Rollignan?"

"He drowned."

"And couldn't he swim?"

"He did, for eight hours; but he was a union man."—Gunther's Magazine.

JOLIET, ILL.—Wm. Moran has opened a store in the Hanis building.

LEBANON, MO.—Ernst Beck is adding a new house for carnations, 27x175 feet, to his plant.

CHEYENNE WYO.—C. H. Garwood is building a new greenhouse at his place on Ferguson street. He is using cement blocks for the walls.

Surplus Stock

		Per 100
1700	**Ageratum,** Little Blue Star, 2½-in. pots	$2 00
2000	**Alternanthera,** 2-in. pots	2 00
1000	**Aster,** Carlson, Queen of the Market and Giant Branching, from flats	50
300	**Cobea** Scandens, 2½ and 3-in. pots	3 00
2000	**Coleus,** fine assortment, 2½-in. pots	2 50
100	**Cuphea,** 2½-in. pots	2 50
700	**Dusty Miller,** 2½-in. pots	2 50
100	**Feverfew,** 2½ and 3-in. pots	2 50
350	**Ivy,** English, 2-in. pots	2 00
1000	**Lantanas,** assorted varieties, 2½-in. pots,	3 00
200	**Lantanas,** Weeping, 2½-in. pots	3 00
500	**Lobelia,** Bedding Queen, 2½-in. pots	2 00
250	**Moonvine,** Grandiflora, 2½-in. pots	3 00

		Per 100	1000
3700	**Roses,** Monthly, leading varieties, 2-years, 4-in. pots	$7 50	$60 00
1000	**Roses,** Monthly, leading varieties, 3-in. pots	5 00	40 00
7000	**Roses,** Monthly leading varieties, 2½-in. pots	3 00	25 00
300	**Roses,** Hybrid Perpetual, Jacq., Keynes Normandy, Masson, and Coq. Blanches, 4-in. pots,	7 50	

		Each
50	**Roses,** Baby Rambler, Pink, 5 in pots	25c
75	" " " Red, 5-in. pots	25c
50	" " " White, 6-in pots	30c
50	" Crimson Rambler, 6-in. pots	25c

		Per 100
700	**Smilax,** 2-in. pots	$2 00
400	**Sevia,** Serrata Nana, 2½-in. pots	3 00
1000	**Salvia,** St Louis, 2½-in. pots	2 50
250	**Tradescantia,** Wandering Jew, 2½-in. pots	2 00
1500	**Verbenas,** assorted colors, 2½-in. pots	2 50

The Phoenix Nursery Co., Bloomington, Ill.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100

Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

MY MARYLAND

The Greatest Producing Rose in Commerce Today

Selected plants of the highest quality, ready to ship.

Grafted, $20.00 per 100; $150.00 per 1000. Own root, $10.00 per 100; $90.00 per 1000

You will kindly remember that we have

Waban Strain White Killarney

that will please you. Grafted, $35.00 per 100; $300.00 per 1000.

A. N. PIERSON, Inc., Cromwell, Conn.

New Carnation Lucille

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Bedding and Miscellaneous Plants

	Per 100
7,000 Vincas,	
Variegated, 2-in	$3 00
" 3-in	6 00
" 3-in., strong	8 00
" 3-in., extra strong	10 00
10,000 Geraniums,	
S. A. Nutt and other standard varieties, 2-in.	3 00
" " " " " 3-in.	6 00
" " " " " 4 in.	8 00
Mme. Salleroi, 2 in	3 00
Asparagus Plumosus, 2-in	3 00
" 3-in	5 00
Achyranthes, 2-in	2 50
Abutilon, 3-in	5 00
Begonias, in variety, 2-in	2 00
" " 3-in	5 00
Caladium Esculentum, 3 to 4 in. in circumf.	1 00
" " 5 to 7 in. in circumf.	2 00
Cannas, 3-in, our selection	5 00
Cyperus, 2-in	3 00
" 3-in	5 00
Chrysanthemums, 3-in	4 00
Coleus, mixed, no Verschaffeltii or Golden Bedder	2 00
Echeveria Secunda Glauca	4 00
Fuchsias, 2-in	3 00
Heliotrope	3 00
Impatiens Sultani	3 00
Ivy, German	2 50
Lantanas, in variety	2 50
Myrtle, hardy, 3-in	4 00
Pilea	3 00
Primula Forbesi, 2-in	3 00
Plumbago Capensis	3 00
Roses, Bride, Chatenay, Maid, 2-in	3 00
" " " " " 3-in	5 00
" White Baby Rambler 2-in	6 00
" " " " 3-in	8 00
" " " " 4-in	20 00
Sage, Holt's Mammoth	3 00
Selaginella, Lycopodium Moss, 3-in	4 00
Verbenas	3 00

I. N. KRAMER & SON, Cedar Rapids, Iowa

Geraniums...

Rooted cuttings of Castellane, Viaud, Buchner Ricard and Nutt, at $1.00 per 100, $10.00 per 1000

ASPARAGUS

Plumosus, ready now..... $25 00 per 1000
Sprengeri, ready July 1st... 15 00 per 1000

Smilax Ready now at $15.00 per 1000.

HARDY PHLOX

In assortment, principally a fine salmon pink, all of them good varieties rooted cuttings at $1.00 per 100; $7.50 per 1000.

Cash with the order. Honest samples sent free.

ALBERT M. HERR, Lancaster, Pa.

Seattle, Wash.

The spring trade has far exceeded any other year here on account of this being exposition year. Every one who owns a home, no matter how small or big, is spending more in decorating the grounds than ever was done before and there has been an especially large sale on cactus dahlias, the exposition flower. The Alaska-Yukon-Pacific exposition opened to the public on June 1 and, to the credit of the officials, who have pushed the work through, every building is complete, something that never happened with any of the other expositions held in the United States. The grounds, under the supervision of Frederick Dawson, of Olmsted Bros., will be something that few of the visitors from east of the Cascade mountains will see again, as the fancy coniferæ, hollies and other evergreens that thrive in this semi-tropical climate can only be seen to perfection in the Pacific northwest.

NOTES.

The Burdett Co.'s new store, recently opened at 912 Third avenue, is very fine. It is all original and planned by the energetic manager, H. B. Burdett. The salesground and nursery at the corner of First avenue and Dennyway have been enlarged and more ground added; the facilities for handling nursery and greenhouse stock have been more than doubled.

The Interlaken Nursery and Seed Co. has opened a new store at the head of the public market and under the management of Frank Stevens is doing a fine business in seeds, nursery stock and cut flowers.

This will be the banner year for the florists, as the city will be full of visitors from all parts and especially from Alaska, as the gold miners are liberal spenders for flowers.

ROSES

OWN ROOT

My Maryland, Rhea Reid and Jardine,

3-inch $12.00 per 100; $100.00 per 1000.

Richmond, Ivory and Chatenay

2½-inch $3.00 per 100; $25.00 per 1000.
3 -inch 6.00 per 100; 50.00 per 1000.

CHARLES H. TOTTY,
Madison, New Jersey.

Splendid Plants. **ORCHIDS** Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas: Labiata, Speciosissima, Mendelii, Gigas Sanderiana, Mossiae, Aurea, Gigas. Chrysotoxa.

Moutain Fastness to Grower. Send for Prices.

G. L. FREEMAN, 388 Appleton St., **Holyoke, Mass.**

PHALÆNOPSIS AND VANDAS.

Importations Received Every Two Months.

Phalaenopsis amabilis,
Phalaenopsis Schilleriana,
Phalaenopsis Sanderiana,
Phalaenopsis Stuartiana,
Vanda Sanderiana,
Vanda Batemannii,
Vanda Boxallii,
Dendrobium superbum.

We also receive many other varieties of orchids from the South Pacific and East Indies.

We respectfully solicit your inquiry in this line.

MacRorie-McLaren Company, 721 Crocker Building, San Francisco, Calif., U. S. A

ORCHIDS

Just arrived, the following:—C. Labiata, C. Mossiæ, C. Mendelii, C. Harrisoniæ, C. Granulosa, C. Dowiana, Dend. Nobile, D Wardianum, D. Formosum Giganteum, D. Thrysiflorum, Oncidium Varicosum Rogersi Oncid Phymatochilum, Burlingtonia Fragrans. To arrive shortly: C. Trianæ, C. Percivaliana C. Gaskelliana C Schroederæ.

CARRILLO & BALDWIN, Secaucus, N. J.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

Sam Graff has opened a fine new store at the corner of First avenue and Madison street and is doing a satisfactory business. J. C. R.

Miscellaneous Plants

Alternantheras, 4 varieties, $2.50 per 100.
Bouvardias, pink, white, scarlet, 2-in. pots, $3.00 per 100.
Carnations, R. C., from soil, $2.00 per 100—Pink: Dorothy; Scarlet—Elbon.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in. pots, $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Lobelia, Double blue, 2½-in. pots $3.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground, $1.00 per doz.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Phlox, Drummondi, dwarf; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadricolor; Golden Feather, Cupheas, Snapdragon, Lantanas.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

Geraniums

	Per 100
4-inch stock, 15,000 plants, cool grown, 6 standard varieties, without pots	$6.00
Mme. Salleroi, 2-in., $1.50 per 100; $12.50 per 1000	
" 2½-in. 2.00 per 100; 18.00 per 1000	
Rose Geraniums, fine 4-in.	$7.00 per 100

BEDDING AND OTHER STOCK.

English Ivy, 4½-in., 3 to 4 ft. long, fine stock ..... 15c each
Swainsona, extra large flower, pure white, 2½-in. ..... 2.00 per 100
Stevia, 2 in. ..... 2.00 per 100

N. C. MOORE & CO., **Morton Grove, Ill.**

Forcing Bulbous Plants.

A. Vanden Heede, in the Moniteur d'Horticulture, gives an explanation of the disappointments which sometimes occur in the forcing of Dutch bulbs, and which, he says, are invariably the fault of the process. The first requisite, he says, is a plentiful root growth, before an attempt is made to force the bulbs, as the plant must be enabled to absorb a great deal of water in order to nourish and develop the bloom. To this end, the bulbs should be potted as soon as they are received and placed in the dark, preferably buried in a bed of fine ashes or sand and covered at least four inches with the same material. The second condition, less known but equally indispensable, lies in the character of the variety forced; one cannot successfully substitute a second early variety for a first early or a late variety for one of middle season. It becomes a matter of knowledge of varieties, and, for the guidance both of florists and amateurs, he gives a useful list of varieties for the various months, which we condense below.

HYACINTHS.

In October, white Roman, in November, colored Roman; in December, Dutch hyacinths, which require a thorough preparation.

TULIPS.

In October, Duc van Tholl (various); in November and December, the double Tournesol, and its yellow variety, give very satisfactory results; in January, Pottebaker (white and yellow) Chrysolora, La Reine, Rose Gris de Lin, Duc de Berlin, Cottage Maid and Joost van Vondel. In February, a still wider range, as Canary Bird, Brutus, Duc Gordon, Duchess of Parma, Golden Prince, Fairy Queen, Grand Duke of Russia, Immaculee, Ophir d'Or, Rembrandt, Vermilion Brilliant, Proserpine and La Precieuse Maximus. In March, all the varieties which are grouped under the name of early, if properly rooted, may be forced, but the late sorts, Parrots, Byblomens, Darwins, Gesneriana, etc., may not be forced until April with any certainty of success.

Most narcissi should not be forced before January, when Paper White, Double Constantinople and other polyanthus sorts do well. These may be followed by N. poeticus praeco grandifloras, and in February by the whole tribe of trumpet varieties and the double sorts. In forcing narcissi care should be taken not to give too much heat, for fear of long and weak stems; give as much light and air as possible. Forced bulbs, when out of bloom should be gradually dried off and planted later in the open ground; they cannot be forced two years successively.

Phoenix Canariensis,

IN TUBS
3-ft. at $2.50 each.

Dracæna Indivisa,

7-in. pots, fine stock, 2½ to 3-ft. high, at $7.00 per dozen.
Large stock up to $12.00 per dozen.

BEDDING STOCK

Cannas..

In 4-in. Pots.

	Per 100
Mixed lot at	$ 6 00
Allemania,	$1 25 per doz.
Chas. Henderson,	1 25 per doz. 8 00
Chicago,	1 25 per doz. 8 00
Discolor,	1 25 per doz. 8 00
Florence Vaughan,	1 25 per doz. 8 00
L. Patry,	1 25 per doz. 8 00
Mlle. Berat,	1 25 per doz. 8 00

	Per 100
Ageratum, 3-in. pots	$ 5 00
Cobea, Scandens, 4 in. pots	8 00
English Ivy, 4-in. pots: 3 to 4-ft. long. Per doz. $ 1 50	12 00
Geraniums, assorted varieties, strong, plants, but not in full bloom	8 00
Lobelia, blue,	2 00
Mignonette, 4-in. pots	8 00
Marguerite, 4-in. pots	8 00
Nasturtium, 2½-in. pots	3 00
Vinca, Variegated, 3-in. pots	8 00

The Geo. Wittbold Co., 1657 Buckingham Pl., **Chicago.**

Geraniums, double Grant, Bruant, Viaud, Nutt, Perkins, Rose, etc., 2-in. 2c.
Ageratum, 2-in. 2c.
Stevia, Green or Variegata, **Vinca Var.,** strong, 2-in. 2c.
Cuphea, Swainsona, Dbl. Alternanthera, Coleus, Feverfew (Gem), 2-in., 2c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c; **Paris Daisy,** white, and yellow; 2-in. 2c. **Swainsona,** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00; **Vinca Var.,** 90c. $8.00 per 1000; **Alternanthera,** 3 kinds 50c; **Ageratum, Coleus,** 60c., $5.00 per 1000; **Artillery Plant, Stevia,** Green and Variegated, 75c. **Asparagus Sprengeri,** 2-in. 2c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Geraniums..

5000 S. A. Nutt, Mme. Barney, La Favorite,
In 2¼ and 2½-inch pots
Strong, healthy stock.

WOODWORTH & PARKER,
GENEVA, OHIO.

Ferns for Dishes.
Assorted Varieties.
From 2-in pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN
2570-2606 W. Adams St., Chicago.
Formerly Garfield Park Flower Co.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100, Seedlings, $1.00 per 100.
Geraniums, Nutt Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2.50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Vinca Var., 2-in., $2.00 per 100. 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia), Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas. Ageratum,** blue and **Heliotrope.**
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100.

Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, **Newton, N. J.**

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140.00 per 1000.

POINSETTIAS.
2½-in. ..... $5.00 per 100; $45.00 per 1000

CYCLAMEN.
3-in. ..... $7.00 per 100 4-in ..... $15.00 per 100
5-in ..... $25.00 per 100

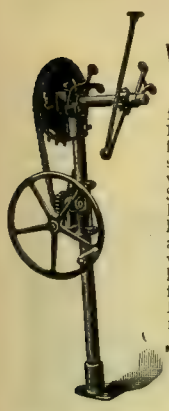
Katalog for the asking.
Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

Geraniums..

Best Varieties.
2½-in., ready for 4-in., $2.00 per 100; 300 for $5.00
Ivy Geraniums and Salleroi, 2½-in., same price.
Cabbage Plants, all kinds ..... $1.00 per 1000
$8.00 for 10,000.
Tomatoes, best varieties ..... $1.50 per 1000
Cauliflower, Snowball ..... 2.50 per 1000
Egg Plants and **Peppers** ..... 2.50 per 1000

J. C. SCHMIDT, **Bristol, Pa.**



ADVANCE
VENTILATING APPARATUS

Shipped a Baltimore firm four machines May 4. On the 17th we have another order from them for machine with a statement that the machines were more than satisfactory. Since then two other florists have ordered machines. Our line speaks for itself—all we ask is a trial to convince that we have the best on the market. We guarantee satisfaction or your money back. Free circulars and free estimates for the asking.

THE ADVANCE CO.,
RICHMOND, IND.

THE ART OF
Floral.....
Arrangement.

The first special newspaper in the world for floral arrangement.

250 ILLUSTRATIONS ANNUALLY

Specimen number free.
Subscription, $2.40 yearly.

BINDEKUNST-VERLAG,
J. Olbertz, ERFURT, GERMANY.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.
Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

GEO. KELLER & SON,
Manufacturers of
Red Pots

Before buying write for prices.
361-363 Herndon St.,
CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for Price

A. F. KOHR,
1521 Leavitt Street, CHICAGO

The Regan Printing House

LARGE RUNS OF
CATALOGUES
—OUR SPECIALTY—
WRITE FOR FIGURES.
83-91 Plymouth Place, CHICAGO

Le Journal des Roses

Organ of the French Rosarians.

Published at Paris. Once a month with color plates.

Subscription $2.70 per year. Sample copies free

ADMINISTRATION DU **JOURNAL DES ROSES**
a SUISNES, Brie

Par Grisy-Suisnes. (Seine et Marne), FRANCE.

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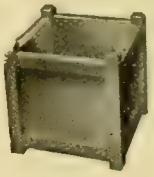

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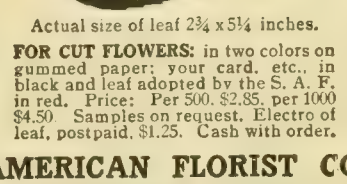

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Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23d St., New York.

Pecky cypress. Williamson-Kuny Mill & Lumber Co., Mound City, Ill.

Building material, cold frames, hotbed sash, Hitchings & Co., 1170 Broadway, N. Y.

FANS.

Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

FERTILIZERS.

Wizard Shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure. Wm. Thomson & Sons, Ltd., Tweed Vineyard, Clovenfords, Scotland.

FOWLS.

White and Black Swans, Peafowls. White and Pearl Guinea Fowls, etc. Send for catalogue. Edw. S. Schmid, Washington, D. C.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American, "White Rose." Stenzel Glass Co., 2 Hudson St., N. Y.

Glass, High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

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Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co. 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, New York.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1133 Broadway, N. Y.

Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction. The Payne Dripless Steel Bar Greenhouses. John A. Payne, 260 Culver Ave., Jersey City, N. J.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, New York.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham Co., 1133 Broadway, N. Y.

Gutters, Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides, Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

Hammond's Slug Shot, kills insects. Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N. Y.

Bordeaux paste and Bordeaux arsenate for mildew and bugs. Niagara Sprayer Co., Middleport, N. Y.

V1 Fluid, ideal winter spray, $1 per qt., $3 per gal. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

Cooper's Spray Fluids. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

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Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

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Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit.

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Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

SECOND HAND BAGS, burlap and barrel covers of every kind bought and sold. Write for prices. Richmond Bag Co., Richmond, Virginia.

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Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

A Knapsack Sprayer, for greenhouse and lawn spraying. Niagara Sprayer Co., Middleport, N. Y.

Engravings of all kinds. Dearborn Engraving Co., 1322 Wabash Ave., Chicago.

Printing for florists' catalogues. Gorham & Chapline, 114 Sherman St., Chicago.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

Hyacinth vases. Nicholas Wapler, 28 Warren St., New York.

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Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western and 26th St., Chicago.

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Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

POTS, PANS, ETC.

Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots, Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, New York.

Pot hangers. Kramer's $1 a doz.; exp., $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

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Free to Florists—Sample box of Red Pots. George E. Feustel, Fairport, Iowa.

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Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

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Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 for 1,000.

Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Morehead Return Steam Traps. Morehead Mfg. Co., 1047 Grand River Ave., Detroit.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

Steam Traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

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Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

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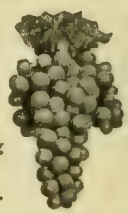

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For the Garden, Orchard and Greenhouse
Non-poisonous and harmless to vegetation.
Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

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Hammond's Slug Shot is Sold by Seed Dealers all over America

HAMMOND'S SLUG-SHOT — I SLAY BUGS — 1880 1880 — KILLS INSECTS, SAVES FOLIAGE — TRADE MARK

A Grand Show of ASTERS

The Station Agent's Plan.

My Aster beds are a strip of ground along the railroad track of the Central New England. For years it has been my pleasure to have a grand show. The most troublesome annoyance which I have had is the **Black Beetle** and the **Striped Bug**—these pests will skin the whole bunch if we let them alone, but we don't let them alone, for as soon as the plants are well grown I just take Hammond's Slug Shot and a bellows and go over the whole. On a still day **dust settles everywhere.** Then when the blooms begin to open we give them another dose, and we have the flowers. This year we let them go and the bugs or beetles got a start and we started for them but they did us damage. Now for a good many years I have known Slug Shot and have used it, and there is no use trying to raise Flowers or Fruit or Vegetables without you watch them, because as sure as the sun shines you have Bugs, Lice or Beetles which you must get rid of. Now on Cucumbers the Striped Bugs play havoc. You told me once to put some Slug Shot in water and sprinkle the rows. When that is done the Cucumbers grow. The Cherry trees will curl their leaves with lice; if you can blow Slug Shot over these ends the Slug Shot sticks to the sticky mess which comes where these lice are and they do not spread,

Yours respectfully,
LUTHER BRUNDAGE, Billings, N. Y., October 25, 1908.

For pamphlet on Bugs and Blights address

HAMMOND'S PAINT AND SLUG SHOT WORKS, Fishkill-on-Hudson, N. Y.

A Knapsack Sprayer

With power for Greenhouse and Lawn spraying—nothing like it. Send for photograph and description.

Our Bordeaux Paste and Bordeaux Arsenate

DEATH TO MILDEW AND BUGS.

Why worry when you can have healthy plants and perfect bloom? Don't delay, write us and see what we have to offer you. Address.

NIAGARA SPRAYER CO.,
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THE BEST Bug Killer and Bloom Saver

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USE IT NOW.
F. O. PIERCE CO.
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MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

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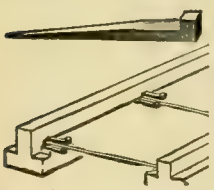
WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.


Siebert's Zinc Glazing Points.
Good for small or large glass, do not rust, easy to drive 5/8 and 7/8 inch. Per lb. 40c. 5 lbs. $1.85. 20 lbs. $7.00.
VAUGHAN'S SEED STORE, Chicago or New York.

BIG RAPIDS, MICH.—Chas. Buskirk is having an addition of 18x72 feet built to his greenhouse.

SYRACUSE, N. Y., May 24.—At least 16 different varieties of violets have been found in Onondaga county by Mrs. L. L. Goodrich of the Onondaga Academy of Science. The last meeting of the society was devoted to "Early Wild Flowers." Prof. W. L. Bray of Syracuse university discussed "The Field Horsetail" or equisetum, and Mrs. Charles Pratt talked about bloodroots. Mrs. Goodrich has made an extensive study of violets, of which she says she has found 16 wild varieties, and believes there are several others. One, an exceedingly rare species, Viola pedatifida, was found by her, but she refused to make public the locality for fear of vandals. If anyone is sufficiently interested and will not tell anybody else she is willing to confide to them the secret. Rev. Dr. W. M. Beauchamp regarded "Local Orchids" as one of the most interesting families of plants. Between 30 and 40 wild varieties, he said, were known in this county, and there are more. Lady slipper, he said, was the common name, but he called them moccasin flower. Whip-poor-will shoe, he said, was the name given by Onondaga Indians to the plant.

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GREENHOUSE GLASS
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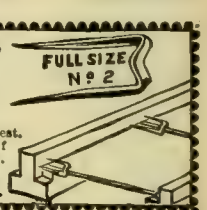
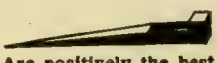
See the Point
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.
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Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes 5/8 and 7/8, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade
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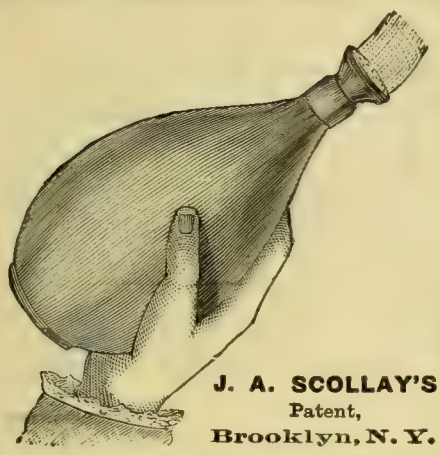

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FOR CUT FLOWER TRADE. Also the

Scollay Putty Bulb

FOR GLAZING GREENHOUSES, Etc.

The Scollay Plant Sprinkler is in its 35th year. Thirty-five years of experience should count for something—we have given attention to quality in every respect—making of seams—selection of high-grade rubber. During these 35 years there have appeared more than 35 imitations, all the way from hand levers—tee ends—breakable tops down to Chinese and Boston Blowers—and, after all, the fact remains the same, that we are still the real thing in rubber sprinklers, etc. No one is so new or old in the cut flower trade that he can keep shop without **Scollay's Rubber Plant Sprinklers.** Every sprinkler guaranteed free from imperfection in manufacture.

For Sale by All Prominent Seedsmen.

JOHN A. SCOLLAY, 74-76 Myrtle Ave., Brooklyn, N. Y.

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Prices on application.

Special discount on original cases of 25 doz. assorted colors.

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Original Designs.

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Write for catalog and full information.

THE STERLING EMERY WHEEL MFG. CO.

Manufacturers of General Iron Work, TIFFIN, OHIO, U. S. A.

Pittsburg.

EVERYBODY HAPPY.

At this writing wholesalers and retailers are highly elated over the results of their labors. In one sense Decoration day is a very unsatisfactory one, due to the very warm weather.. Stock sold up very clean, colored roses, particularly pink, were very scarce; peonies were in demand with a good supply. Monday found the market quite bare of flowers.

Randolph & McClements had the Taft decoration at the Fort Pitt hotel Saturday, which was a very pretty arrangement of American Beauty roses, white peonies and asparagus.

W. E. Patton of Sewickley made up a floral key which his daughter tendered to President Taft on his visit to that place. The emblem showed some clever work.

J. E. Bonsall, Salem, O., is consigning his cut of Kaiserin and Carnot roses to the McCallum Co.

John Young of Winter reports his business away ahead of last year, both in cut flowers and plants.

Otto Kalreuth, Wheeling, W. Va., has opened a retail store in that place.

Chartiers Cut Flower Co., McKee's Rocks, is remodeling its store.

Visitors:—Griffith of J. S. Crall Co., Monongahela City; Max Schneider of Edwards Folding Box Co., Philadelphia; J. W. Glenn, Kitanning—Misbacher and E. & H. Levy, New York; E. W. Garland. Finleyville. J.

TRENTON, N. J.—Wm. H. Skillman, who, it will be recalled, was sentenced to five years' imprisonment for forging a relative's will, died May 23 in the state prison here.

Lexington, Ky.

At the Queen & Crescent railway depot Lucien Le Clere is in charge, and he is doing good work there. The work of setting out the flower beds on the lawns has been begun and will be done on a larger scale this year than ever before, it being planned to use over 10,000 plants in ornamenting the premises. Mr. Le Clere was formerly florist and landscape gardener at the Western Kentucky lunatic asylum at Hopkinsville, the railway company's large greenhouses having been leased to him under a contract to furnish all the plants necessary to keep the grounds at the top in the matter of beauty, after which he does whatever general floral business his supply of plants will permit.

Another house will be erected at the J. A. Keller estate this spring for carnations. The house will be 30x200 feet, and will be planted with all the best varieties.

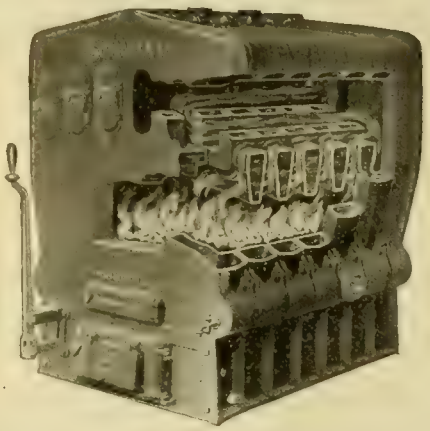
Anderson & White, the lady florists on Georgetown street, are very busy planting out flower beds at the cemeteries. C.

KILL PLANT BUGS and DOG FLEAS

with Lemon Oil Insecticide, adding 30 parts water. No odor, no poison—advantages over Fish Oil or Tobacco products. Used everywhere. If not sold by your seedsman, write **WEATHERBY BROS.** Baltimore, Md., for full information.

LOS ANGELES, CALIF.—The Floral Association is anxious to get rid of City Forester Harper who, it is stated, has no knowledge of forestry.

FAR ROCKAWAY, N. Y.—Axel Lindstrom has been awarded $2,000 as compensation for the death of his son, caused by carelessness of employes of a telephone company in allowing loose wires to dangle about on a lawn, where the boy came in contact with them.



The Burnham

You know has deep cross fire channels with side flue openings which make each section **equally efficient**—you are convinced that for greatest economy it is absolutely necessary that they shall be equally efficient. You have found out it is the only greenhouse boiler made that way.

Lord and Burnham Co.

IRVINGTON, N. Y.

New York. Boston. Chicago. Philadelphia.

THE ALLED TRADES.

The Morehead Steam Trap.

This device has been installed recently in quite a number of greenhouse establishments by the Morehead Mfg. Co., Detroit, Mich., including the following: Gude Bros. Co., Anacostia, D. C.; Jos. P. Brooks, Morton Grove, Ill.; Jos. Heinl & Sons, Jacksonville, Ill.; Phoenix Nursery Co., Bloomington, Ill.; Sherman Nursery Co., Charles City, Ia.; Richey Floral Co., Albia, Ia.; The Bidleman Greenhouses and A. A. Howard, Wichita, Kans.; T. J. Metcalf, Madisonville, Ky.; J. Williams Beal, Boston, Mass.; Stephen Hyde, Carthage, Mo.; W. E. Poundstone, Joplin, Mo.; Carl Steinmetz, Raleigh, N. C.; W. A. Helfer, Akron, O.; Harry W. Pierce, Wilkesbarre, Pa.; Millbrook Lea Greenhouses, W. Whiteland, Pa.; Joy Floral Co., Nashville, Tenn.; Dwight Greenhouses, Janesville, Wis.; Geo. Street, Orillia, Ont.; Camille Legare, Montreal, Que.; Whittaker Bros., Cornwall, Ont.; Wm. Sylvester, Cummings Bridge, Ottawa, Ont.

Greenhouse Heating.

ED. AMERICAN FLORIST:—

I wish to heat a greenhouse 30x80 feet with hot water. The house contains two sections of 30 and 50 feet respectively. The smaller section is built against the boiler shed and to be kept at 60° to 65°; the larger section has glass end and is to be kept at 50° to 55°. The lowest outside temperature is 10° above zero; height of walls five feet with 18 inches of glass; height of ridge 12 feet. All benches are raised.

1. Will a boiler with 18x25 inches grate surface do the work?

2. How many 3-inch flows and how many 1½-inch returns are needed in each section?

3. If the boiler with above grate surface is large enough, can I run the flows required from one 3½-inch pipe? My boiler has only one flow but two returns. The boiler is a Lord & Burnham sectional.

4. How would you pipe the house?

G. D.

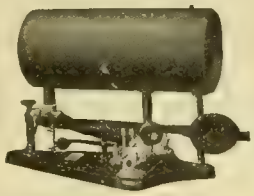
1. While a grate surface of about four square feet is generally desirable for a house of this size, under the unusually favorable conditions a grate 18x25 inches would probably answer.

2. While one 3½-inch flow pipe would answer, it would be better after carrying it into the house, to divide it and run three 2½-inch flows. About twelve 1½-inch returns would answer for the cooler portion and 15 for the part requiring at least 60°. I would prefer, however, to use 2-inch pipes for the returns in which case 10 and 12 respectively would be required for the different houses.

3. A 3½-inch flow could run from the boiler into the house and the returns could be collected into two 2½ or 3-inch pipes and carried to the boiler.

4. The arrangement of the pipes would depend a good deal upon the crops to be grown and the location of the benches. At any rate, it would be well to have two of the flows and at least one-third of the returns upon the walls of the house. If raised benches are used, the other returns could be distributed under them. L. R. T.

For The Greenhouse



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HOT WATER BOILER.

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Has water in front, sides, top and a water back.

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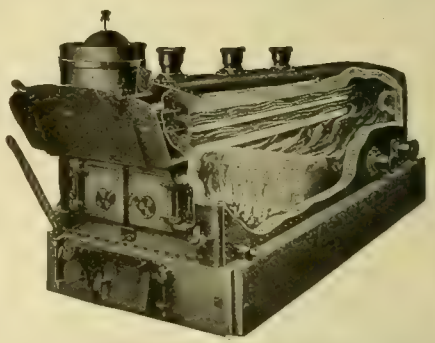
Prices and cata ogue on application.



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Kankakee, Ill.—C. Shafer, several greenhouses.

Poughkeepsie, N. Y.—B. Tremper, one greenhouse.

Benton Harbor, Mich.—C. Edinborough, one greenhouse.

Norwood, Pa.—W. Gregg, several greenhouses.

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Helena, Mont.

Trade is decidedly good. Montanans are keen horticulturists, and having heard that home products are the best, the local nurseries have reaped the benefit. The State Nursery is up to its eyes in business, and an additional staff has been engaged to cope with the pressure. There is little time for anything but trees, shrubs, plants, seeds, cut flowers—these good ones. All other interests of the workers (even those in mines) have to take a back seat. Victor Larson, manager at the nursery, has just returned from a visit to Sweden and France, and "beauties" are booming. Another local establishment, that of Charlie Horn, is on the up grade. The season is very late, potatoes and trees having been frozen when their safe planting seemed assured.

Boilers, Tubes, Flues, Etc.,

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If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Helbe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

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A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.

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Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

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2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

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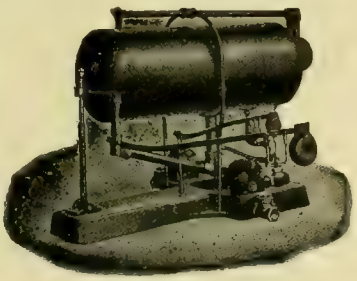

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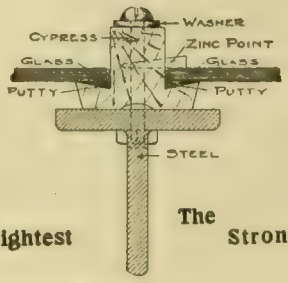

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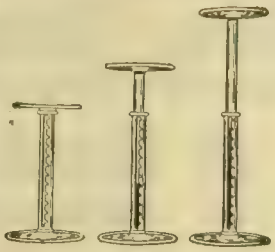

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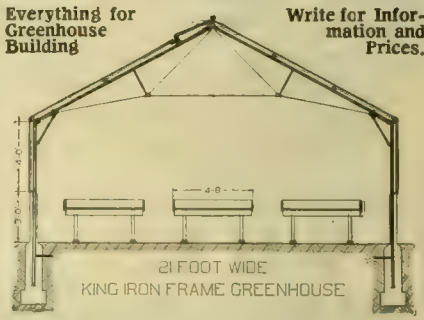

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Nashville.

SCHOOL EXERCISES CAUSE DEMAND.

We have been having a busy time for the past two weeks with the various school commencements. In addition to the many city schools, there has been a splendid demand from surrounding towns, which have contracted the sweet girl graduate bouquet habit. Not one can be launched out into the world without her armful of beautiful bouquets or handsome baskets and it is quite the thing for the trade. The demand has been so good that the floral stores have kept their clerks busy far into the night. This week there will be two decoration days. May 31 the Nation Decoration day and June 3 the Confederate. There is one large national cemetery near this city, at Madison, but soldiers who died or were killed during the war are buried here and few if any have living relatives here, therefore but few flowers are purchased or laid upon the graves. Each grave is decorated with a United States flag, speeches are made, songs are sung, but there are very few flowers used. On June 3, when the Confederate graves are decorated, wagon loads of flowers find their way to Confederate circle at Mount Olivet, but few of them are purchased at the florists. If the latter wishes to retain his popularity he will empty his yesterday's roses and pour out his surplus stock as a gift to aid in the decoration. Stock has been very good and in the main abundant. Some shipped in flowers were used while the biggest commencement demands were on.

The Joy Floral Co. has plenty of roses still, American Beauty leading in quality, being now the best rose to be had; Killarney grows smaller as the heat increases; Bride and Bridesmaid are good; Perle is not grown at all any more for this market. Both the Joys and Geny Bros. have plenty of Harrissi lilies on hand and have had fine sales on them for both commencement and funeral work. Candidum lilies are now flowering in the open and are fine in quality. Peonies were used in bunches for commencement flowers, some splendid specimen being shown in the pink varieties of a rich rose color. These are now all due as their season is short.

McIntyre Bros., who have a fine range of houses, and who do an active floral business along all lines, are industrious and successful growers of plants and have many varieties which are being sold rapidly.

Arnold Schmidt is a successful grower of plants and is disposing of a great many.

Haury Bros. are in the market every day and are doing a fine business.

J. T. Dawson sells from a wagon at the market house and makes good money.

M. C. D.

DECORATED HYDRANGEA IN BIRCH BARK POT COVER.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, JUNE 12, 1909. No. 1097

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the everyday florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR PLANT GROWERS.

Cannas.

The value of cannas as pot plants for a display in late summer is not sufficiently appreciated. They are very showy and easily grown and stock shifted on now from small pots into 6-inch will make fine flowering specimens in July and August if run cool right along. When large specimens are needed for the decoration of conservatories or corridors several plants may be placed in a pan and grown on, taking care that only one variety is placed in each pan. The ordinary greenhouse or frame treatment suits them well and it is only necessary to water freely and feed regularly when the pots or pans are well filled with roots. The compost should be rich in the first place and occasional fumigation will be necessary to keep green fly in check.

Stock Geraniums.

While it is not necessary to keep back fine plants for stock, yet a sufficient number of the bedding geraniums must be reserved for this purpose. Rough, badly shaped plants that are not exactly suitable for sale will do well for stock, and where, say 2,000 plants are needed for sale next season at least 100 stock plants should be saved. The soil where geraniums are to grow should not be too rich, but, on the other hand, it is growth we are after, not flowers, consequently there should be sufficient nutriment to cause this to be free. We know of cases where geraniums for stock have been planted for years on the same soil, though they never give good stock in any quantity. This is not good practice and is worse than an over-rich soil, especially should the summer prove hot and dry. Keep the flowers picked off the plants from the first to induce a free growth; pinch the points of the shoots and a good, bushy habit will result.

Cyclamens.

It is necessary now to get all the growth possible into the cyclamens. Spread the plants out well on a bench near the glass in a low span-roofed house and shade them all day long, keeping up a moist atmosphere by frequent dampening of floors, benches and between the pots, but only spraying the plants overhead occasionally. By shading we do not mean keep them in the dark. They need all the light possible and for this reason should be near the glass, but the foliage will not stand bright sunlight, and without good foliage cyclamen growing is impossible. The young stock recently potted from flats will be making good leaves now and in about a month should be ready for potting into 3½-inch. Do not make the mistake, though, of overpotting any of the plants. They do far better with small shifts so the roots have always command of the compost. From now on there will be danger of attacks from thrips and occasional fumigations will be necessary to keep these insects in check. Keep up a regular temperature with ample supplies of fresh air and remove the shading entirely in dull weather. When repotting cyclamens always finish the soil so that the corms are just buried, but not deeply. They push up to the surface in a short time and are then in the best and most natural position. Bulbs potted entirely out of the soil dry up too rapidly and are not as healthy.

Cupressus Lusitanica.

Many who are not familiar with this species by name will recognize it in the "cypress" that has been more or less in evidence the last few years among coniferous plants imported from Europe. It is quite a different plant to the biotas and Lawson's cypress that are more popular at Christmas and would, if exploited, make a popular market plant, as it could be sold cheaply and would last well in living rooms, as well as, or better than, the araucarias. A retailer with his own glass should secure young plants yearly and keep a stock of it in various sizes. It is not strictly hardy, but, except in the most adverse weather, would thrive under a lath shading outdoors, the pots plunged in leaves or fiber to prevent the roots drying out too rapidly. C. macrocarpa, the Monterey cypress, is sometimes grown in a similar way, but C. Lusitanica is of a better habit and dwarfer. Some of the varieties are very glaucous and it

is known in the trade as the cedar of Goa.

Marguerites.

When the bedding is over and the window boxes all planted the stock of marguerites will probably not be large and the plants that are left will be poor. When early flowering plants are needed it does not do to depend upon stock from outdoor plants and a few of these rough looking subjects may have the old flowers removed, be cut back a little and placed in a moderately close but cool frame, spraying the heads regularly. As soon as new growth starts give the plants a shift or set them out in a soil bed and little side shoots about an inch long will soon be produced. Root these in a similar frame in small pots and pot each singly when rooted, first pinching out the point of each. Pot firmly in soil not too rich and in a few weeks these will form nice little hard stock in 2-inch pots, ready, as soon as the weather gets cool, to be repotted into 5-inch and grown on for early flowering. There is a great difference in stock of this kind and plants produced by rooting soft green cuttings from plants that have made a strong growth outdoors, though these are quite good enough for window box use and bedding. The one thing needful in the culture of marguerites is to keep them free of insects and a constantly cool and airy atmosphere is the most likely method to secure this. Heat is fatal to them, so is a harsh, dry atmosphere, especially to the yellow flowering sorts, but these can be just as easily grown as the white if properly treated.

SACO, ME.—Geo. L. Mahoney & Co. report a great scarcity of outdoor flowers for Memorial day.

WELLINGTON, O.—T. G. Yale writes: "Trade the best this spring we have ever enjoyed. Memorial day trade was about 50 per cent better than usual. As one customer remarked, 'There is another grave to be decorated this year.' We had the goods and now we have the cash for them."

THE RETAIL TRADE

THE Home Journal (Canadian), in its issue for June, has a long and interesting article on The Bride's Bouquet, illustrated with pretty cuts of bridal bouquets from photographs from John H. Dunlop of Toronto, and bunches of various flowers from photographs taken at the Dale Estate, Brampton, Ont.

A Jewish Home Wedding Decoration.

SEE SUPPLEMENT WITH THIS ISSUE.

A Jewish temple set up in the home of one of the contracting parties to a wedding is a not unusual order for the florist in Jewish districts and scope for very tasteful and telling decorations often results. Southern smilax is one of the most useful of decorative subjects for this class of work, good for draping walls and pillars, lattice work, electroliers and other things it is desirable to hide or adorn. It is sufficiently cheap to be used in quantity in large rooms, halls and corridors, lasts well and is cleanly in use, does not drop all over the carpets and furniture and is not highly inflammable and therefore dangerous to use like some of the dried products. These have been the cause of many fires at weddings and similar functions and for this reason insurance companies have in some cases prohibited their use in buildings where they hold a risk.

The walls and festooning are usually the first consideration and when these are done the temporary, improvised temple or pulpit is put in and the florist has to think out a scheme for decorating it with palms, foliage and flowering plants. These decorations may be very elaborate or very simple according to the wishes of the patrons but in either case good palms are one of the first considerations. If there is to be a lighting scheme carried out this should all be arranged beforehand and the palms so placed that they are lit well and show to the best advantage. A large well feathered specimen of Kentia Forsteriana on either side, if the lighting scheme allows, or one large one in the center if this seems more suitable, will form a good setting for the other plants which will, of course, vary with the season of the year.

Rambler roses are fine for such work. They may be used in so many different forms, are always attractive without being stiff or garish in color, while small plants may be used to stand up from other subjects with excellent effect. In all cases it is best to get away from the stiff bank idea. Break up the outline both ways. Do not let the line on the floor be semicircular or straight but let it fall back in places into small bays and again jut out in others, displaying in the latter case some fine specimen plant kept higher than its surroundings to break up the monotony. There are many plants that can be grown for this latter purpose. Some of the finer, narrow-leaved crotons are excellent if well grown and colored. Humea elegans is also fine for the purpose and an old and half forgotten species of fuchsia, F. gracilis, is one of the most suitable subjects in cultivation, its pretty drooping flowers on the loosely pyramid shaped plants having a graceful and pretty pose not possessed by many more popular plants. There is ample room, in short, for individuality along these lines and florists who grow their own plants should keep such things in mind when propagating.

PILLOW MADE OF ROSES AND LILY OF THE VALLEY WITH LETTERING.

Memorial Day Around the New York Stores.

Unlike Christmas and Easter, the volume of business connected with Memorial day cannot be adequately estimated by visiting the stores on Fifth avenue, Broadway or the other great thoroughfares. While it is true that the retailers of these streets have their share of the business, to see real activity, the scene changes to the vicinity of the great cemeteries. The business of this year exceeded that of last and possibly that of any preceding year. Originally dedicated to the memory of the soldiers, its observance has always been popular with what Lincoln called the "plain people," and whom, he added, "God must have loved because he made so many of them." As the years have passed the spirit of the observance has imbued all classes, and in this great city, this year, the touching spectacle was witnessed of a body of unemployed men going to the potter's field on Hart's island to decorate the graves of nameless dead. Their offerings were humble, but they added something to the grand total of human kindness and commercial activity as well.

Though an enormous quantity of cut flowers, largely of the less expensive varieties, was sold and used, a very noteworthy feature of the trade was in plant sales. One dealer, located near Woodlawn cemetery, which is in the Bronx, and in which many wealthy people are lot owners, said that he had never before had such a demand for geraniums. This may be partly accounted for by the fact that Saturday, Sunday and Monday were all exceptionally fine days and many observe Saturday as a half-holiday. The time was so long and conditions so favorable that general advantage was taken of them. It may also be noted that while many wealthy people are absent from the city, provisions are

made for the care and decoration of their lots, and in such cases the tendency seems to be toward plants rather than cut flowers. Returning to the geraniums, we may say that never before have we been so impressed with their popularity and usefulness as by recent visits to the great cemeteries of this city. At Woodlawn we noticed many large pans of lilies as well as pot roses and the tendency seems to be decidedly toward that class of decoration.

Viewed in a wider range, it is appropriate to remark on the great impetus which the observance of Memorial day has given to the nursery and plant as well as the cut flower trade. The snowballs, the hardy rhododendrons, spiræas, deutzias and other flowering plants and shrubs have been well utilized and their beauty and appropriateness must be universally acknowledged. While the observance in any form is a beautiful act, the foresight which prompts seasonable planting is certainly commendable. The monuments located in the parks and squares throughout the city, which have from time to time been erected to honor the heroes of the Revolutionary, the Mexican and civil wars, were very generally decorated.

In these decorations, which were generally executed on orders from the various societies which exist for the purpose of perpetuating the memories of heroic deeds, many garlands of laurel and other green were noted. At Grant's tomb, on the Riverside drive, an immense crowd collected on Monday afternoon, Gov. Hughes delivering an address. It was estimated that at least 100,000 people lined the drive to cheer the veterans and militia as they passed in review. The sarcophagus in which rest the remains of Gen. and Mrs. Grant was covered with elaborate floral tributes from all parts of the country. Among the most noteworthy were those from Lafayette and Grant posts, G. A. R. of New York, Meade post of Philadelphia and the Loyal Legion. The Chinese minister sent a wreath of immortelles. Another point of interest on Riverside drive was the Soldiers' and Sailors' monument, also finely decorated. Gov. Hughes, in his address at Grant's tomb, touched a keynote when he said: "The act of a little girl in strewing with flowers the graves of the dead heroes is more significant than the noisy demonstrations of the Fourth of July."

At Stapleton, Staten Island, after exercises held by the local camp of Spanish war veterans, practically the whole population of the town repaired to the water's edge. Twenty-five children were rowed out on the bay in boats, from which they scattered flowers on the waves in memory of the sailors who lost their lives in war. Again referring to the commercial features of the day, we visited several stores located near Woodlawn cemetery. At that point Samuel Cockburn & Sons, who have also a branch at Kensico cemetery, were doing an immense business both in plants and cut flowers. At the store of Peter Roemer in the same locality there was similar evidence of activity. The Friedman store had a heavy demand for cut flowers. Among the noted cemeteries of the country Greenwood of Brooklyn is pre-eminent. Around and near it are many florists whose chief business is derived from the care of lots and the sale of plants and cut flowers for cemetery decoration. Notable among these is the veteran John Condon, who for years has done a large business. On Memorial day Mr. Condon said that business was better than last year. He attributed this to some extent to the splendid weather. His greenhouses and office being located directly opposite the cemetery entrance, his judgment is undoubtedly sound. The firm of Jas. Weir, Jr., & Son have also a very attractive conservatory and do a flourishing business at Greenwood. They were well satisfied with the business. Henry Weber, Jr., another leading dealer, said that everything had sold well.

BROKEN COLUMN BY A. EHMAN & SONS, NEW YORK.
Carnations and White Sweet Peas.

A Broken Column.

The broken column seems as popular as ever for funerals and the fine piece illustrated herewith was made by A. Ehman & Sons, 2112 Broadway, New York, for the funeral of the late H. H. Rogers. The shaft was made entirely of Enchantress carnations, with a garland of white sweet peas, pink and white carnations being used in the base.

Winter Flowering Sweet Peas.

ED. AMERICAN FLORIST:—

What kinds of sweet peas are best to grow for winter flowering? Should they be planted in solid beds or raised benches? How much room should they have and when should we sow to have them in bloom for Christmas?

M.

Every seed house carries the winter flowering strain of sweet peas, and while there is quite a number of them, the Christmas Pink and Florence Denzer or Christmas White are the best colors. I should certainly recommend raised benches; plant three to five plants to one string in rows about 8x12 inches apart. The end of August or during the early part of September will be about right for Christmas blooming. If ready sow right into benches; otherwise use 3½-inch pots and plant out afterwards; a carnation house temperature will do, even a little less, with all the sunlight possible. Seven feet of head room, rather heavy soil with but little manure are advisable.

B.

"WE greatly apreciate your supplements."—(MRS.) LAURA A. GRILLS, Hagerstown, Ind.

FLORISTS' FERNS.

Nephrolepis Whitmani.

There is little doubt that Nephrolepis Whitmani is the best of all the crested or plumose nephrolepis sports for market. As may be seen by the illustration it is a fine looking plant when well grown, and, in spite of the fierce competition from new varieties from both sides of the Atlantic, it has maintained its position and there is little doubt that if a vote were taken of all the principal market plant growers as to which is the best of all the sports for their purpose N. Whitmani would come out well ahead of all its competitors.

The fronds are heavily plumose but not so heavily as to cause the stems to give way when grown into large plants. It has a splendid, graceful habit and the color is good. It is a free grower from the smallest size up and a good breeder, throwing out runners in great abundance as soon as planted on the stock benches. Then, like the old Boston, it stands well and even thrives in dry, steam heated rooms, and has every attribute of a good market plant, satisfactory both to grower and customer. Commercial growers say, "Why look further when we have so good a fern already?" and, while doubtless they will always be ready to give a trial to anything that appears likely to prove better, they will look upon N. Whitmani as a tried and proved kind, and, as a moneymaker, the best of them all to date.

COMMERCIAL.

Cultural Notes in Season.

In the early summer many growers become especially interested in the subject of ferns, from the fact that after the stock of spring plants has been sold out there is often some space that may well be occupied with small ferns for ferneries. This makes an additional crop for those growers so located that they can find a ready market for small ferns and thus helps considerably in bringing up the profits from a given space. But the growers who use ferns for a catch crop do not want to bother with raising them from spores, and therefore depend upon getting the young stock from one of the large firms making a specialty of this class of plants, the young stock being delivered in flats of about 200 plants each, and in a fit condition to pot.

These flats of small ferns are usually offered between May 1 and July 1 and thus may be had in time to make satisfactory stock for the following fall and winter. The young plants only need careful potting and watering and protection from sun and wind until they are established, and they will soon grow away and be in condition to endure an abundance of light and air. Among those not familiar with ferns in general the question arises as to what sorts are best for such a purpose. Too long a list of species and varieties is liable to cause more trouble to the grower than a brief list of good and satisfactory species, six or eight good sorts being quite enough for most growers. A good proportion of Aspidium Tsussimense, one of the best of all dwarf ferns for table use, some Cyrtomium falcatum, frequently, though incorrectly, called holly fern, and several of the dwarf and crested forms of pteris (for example P. cretica Mayii, P. Wilsonii, P. serrulata cristata, P. cretica albo-lineata and P. adiantoides). These are all reasonably hardy and pleasing kinds for ferneries and the chief result that should be aimed at in growing them is to produce short stemmed, stocky plants with plenty of roots and hard foliage; in short, to produce the kind of plants that the retail dealer may safely use and recommend.

Maidenhair fern is sometimes demanded for filling ferneries, but is not very satisfactory for this purpose, and frequently dies within a week in the hot and gas laden atmosphere that prevails in many dwellings. Adiantum cuneatum is the species most used when the order calls for maidenhair, though short and bushy plants of A. pubescens are also useful at times. After the worst of the summer heat is past, or in September, the small ferns are better without shade on the glass, the stronger light producing a short growth of hardy fronds that are calculated to endure the trying conditions of the modern dwelling with a reasonable degree of success. The pan of the average fernery is very shallow, and for this reason it is not advisable to grow the ferns in too large pots, for the larger the pot the more of the best roots will be cut or torn off in the effort to get a sufficient number of plants into the pan. Many of the ferns grown for this use are in 3-inch pots, and for a large fernery this size is a good one, but in filling the smaller sized ferneries it is much more convenient to use plants from 2½-inch pots, and if the crop of ferns is not prepared too early in the season the latter size pot will be found quite satisfactory.

The florist with a show house for the benefit of his retail trade sometimes finds a few of the less common ferns an advantage, using them in display arrangements for the sake of novelty, and also frequently finding a customer for some of these out of the ordinary plants. The bird's nest fern, Asplenium indus avis, is one of the species that always attracts attention, its singular form and large light green simple fronds being very attractive. This fern has been grown and offered more extensively in the trade during the past few years, but is still far from being common. A few hanging baskets filled with Adiantum dolabriforme may also be made a feature, this odd and very pretty species being well adapted for the basket method of culture. Its long and slender fronds, with a single row of pinnæ on each side of the midrib, are very light and graceful, and also have the peculiarity of being proliferous at the apex, thus reproducing itself and soon forming a mass of airy foliage. Such a specimen may be used to advantage in a window decoration, and also find a customer who desires something out of the ordinary run of plants. Cibotium (dicksonia) Schiedei still finds many admirers, and justly so, for few ferns are more ornamental, but it must always be taken into consideration that this fern is a strong-growing species and requires much space in which to properly develop its fronds; conse-

NEPHROLEPIS WHITMANI.

THE MODERN SWEET PEA.—(About Two-Thirds Natural Size.)

Burpee's Primrose Spencer, Primrose. Apple Blossom, Rose and Blush.

quently it cannot profitably be sold at bargain prices. The best method to follow with this fern is to purchase strong young plants from 3 or 4-inch pots in the spring and as they grow quite rapidly to pot on and space them out in a fairly light and airy house. Such stock should make good plants in 7 or 8-inch pots in readiness for Christmas sales, and the species may be safely recommended as a house plant.

W. H. TAPLIN.

The Modern Sweet Pea.—III.

THE SWEET PEA SOCIETIES.

Just as I was beginning this article a letter came from New York announcing a movement to organize an American National Sweet Pea Society. I judge that Harry Bunyard is a prime mover in it, and it states that Harry Turner, president of the New York Florists' Club, will lend his influence to the project, and that its June meeting would be set aside for a sweet pea exhibition. Here in California we shall be glad to join also, and give it cordial recognition. I hail this as a very auspicious sign, and no doubt the friendly hand will be promptly extended by the very prosperous national society in Great Britain. We can again repeat that "the sweet pea has a keel that was meant to seek all shores, it has wings that were meant to fly across all continents; it has a standard that is friendly to all nations, and it has a fragrance like the universal gospel." There has been considerable complaint among the English fanciers that the American grown seed of the Spencer novelties gave them back a different color. We shall need a good American committee in this matter. And I, for one, shall try to keep California in close touch with the men on the other side, and shall sacredly guard the most friendly comity.

POPULARITY IN AMERICA.

But my first anxiety is not to keep pace with the van of English enthusiasts, so much as to repopularize this flower in our own country. We want to restore confidence everywhere in the growing of it. I shall watch for reports, to hear that the common rank and file of people with small gardens are again having good average success. I never could quite satisfy myself why it was that 10 years ago the sweet pea went back on us. But I felt sure it would recover from this backset. As I diagnosed it then, no matter whether it was blight, red spider or aphis, the indication was that of a debilitated condition somewhere in the constitution of the general seed stock. All the apparent symptoms pointed that way. I consider that parasites and fungus attack a plant only when the constitution and vitality of the plant is too weak to resist them. It was a great trial to some of us 10 years ago to surrender just when our enthusiasm was at its height. The rest cure was all I could see then. But I hope now the time of mourning is past. The Spencer type now looks as if the sweet pea had taken a new lease of life. We must remember that growing from seed is quite a different proposition from making cuttings from the strongest stock of a given flower.

Nature has its metes and bounds, and this fact is shown especially in seed. But I don't want to begin again to talk about sweet pea diseases. I take it we are once more ready to enjoy the flowers. I want to invite at least enough correspondence to post me from different sections and states, including Canada. I don't want to impose upon people by writing from California, where we have splendid conditions for growing the sweet pea. Messrs. Burpee and Morse will testify that I have heretofore written impartially. And now I am anxious that every 5-cent package of sweet peas shall give such a reward that it will lure the purchaser to grow the best sorts. The immense stock of this seed, grown chiefly in California, is bought up each year, so that evidently people are still planting it. I noticed that John Eckford, the successor of Henry Eckford in England, now grows 60 acres of this seed. Rowntree Bros., Clarence Park, St. Albans, claim to be the next largest growers. But it is venturesome for us to try to grow sweet pea novelties directly imported from England, except in localities where the conditions are peculiarly favorable. It is quite time enough after they have passed through the best trial grounds here to see whether we want them.

MORE ABOUT VARIETIES.

Now I am reminded that an AMERICAN FLORIST article reaches the trade, and I do not want to say things that will seem gratuitous. I do not expect the florist to grow Henry Eckford. It is not yet up to commercial requirements. Neither is Helen Lewis. Miss Willmott is the commercial orange. As for white, I do expect to see Burpee's White Spencer in the florists' windows this year. Still Dorothy Eckford will probably predominate on account of the relative cost of seed.

As for lavender, I shall be interested to see whether the florists take kindly to Mrs. George Higginson, a field of which I saw last summer in remarkably uniform color. It is not strictly lavender, and does not run into the reddish tinge. It just borders on the light blue enough to be quite distinct from the whole Countess of Radnor line. The English fanciers are looking to Mrs. Charles Foster as the coming lavender, and which has the Spencer form. Probably the florists here have planted Lady Grisel Hamilton again. Frank Dolby is another worthy competitor. I should think Phenomenal would be a fine florist's variety.

Probably Hon. Mrs. Kenyon is the florist's variety in primrose, but it seems to me Burpee's Primrose Spencer ought, in spite of the very limited stock of seed, to be seen in a good many florists' windows. In speaking of the practical pink for florist's use I will refer to Morse's list of 50 varieties that represent the largest sales. They show the comparative popularity of the sorts in order, as based upon the season's contract orders, beginning with King Edward VII with 9,000 pounds, down through the list. The orders represent 100 of the largest dealers. It seems curious to me that the old Katherine Tracy should still stand first among the pink sorts. It stands sixth in the general list, while Lovely stands fifteenth, and Prima Donna twenty-first. Evidently the florists are buying Katherine Tracy for pink. This shows hard headed practicality. But, strange to say, the old Emily Henderson holds the second place in this list of actual orders, Dorothy Eckford coming third. And I should have said that Gladys Unwin stands next to Katherine Tracy among the pinks. It momentarily dampens the ardor of a fancier to read this list based on actual sales, and still, taking the first 10, with one or two exceptions they are excellent sorts. Here are the first 10 having the largest sale, according to Mr. Morse: King Edward VII, Emily Henderson, Dorothy Eckford, Lady Grisel Hamilton, Hon. Mrs. Kenyon, Katherine Tracy, Miss Willmott, Gladys Unwin and Salopian. We can pretty safely say those are florist varieties.

So with greenhouse varieties. I saw Zvolanek's stock being grown at the Morse ranches. They are all old familiar types, and grown outdoors would seem inferior. I do not doubt they have some sort of selected quality which responds to greenhouse forcing. And now I ought to bring the subject up to date by just noticing the list of new sweet peas for 1909, as compiled by Walter P. Wright for the sweet pea number of the Gardener. They represent 18 firms and specialists. There are 71 such novelties. Henry Eckford used to give us six annually. I think we shall get a tight rein on this novelty business before long.

W. T. HUTCHINS.

The Yellow Callas.

Probably some of the worst disappointed men in the United States and other countries were they who paid from $5 to $10 per bulb for Calla Elliottiana and other yellow callas only to watch them for several years getting smaller and weaker, or at least not getting any larger, though they had, apparently, the best of care. The plant came with a flourish and many bought it who could do nothing with it beyond flowering it once a year. The bulbs were often placed in strong heat and the consequence was a weak growth that in its decay did not return anything to the tubers and these remained stationary.

Calla Elliottiana.

Then some one got the idea of raising seedlings and keeping them cooler; also giving them a natural rest during the winter and from that time on the yellow callas were a success. Seeds sown in late fall or early spring in boxes in a cool house push up strongly the first year but the roots are so brittle and easily damaged that they are not easy to transplant with safety; consequently it is better to leave them in the pans or seed flats for a year and pot them singly when they commence growing the second time. The proper position for them is in a house shaded from bright sunlight, kept moist and at a night temperature of not over 50°. Here the growth will be vigorous and free and flowers will appear in plenty while, in early autumn, the plant will show signs of having done its duty and go to rest for the winter. This is the annual routine followed by the writer for several years with Calla Elliottiana and although at first it looked like wasted money—as indeed it was, seedlings being so easily raised—yet the plant when treated this way made up for all its former shortcomings.

Calla Elliottiana flowers well outside and we have seen the advice given that it should be grown for winter forcing. While admitting it would be a beautiful plant if it could be used that way it appears to us that it would be going directly against the natural habit of the plant, unless, by some artificial method of retarding, the bulbs could be kept at rest until late fall. The habit appears to be quite deciduous and more like that of the Italian spotted leaved calla than the common calla or arum lily. This latter can, and is, frequently kept growing more or less all through the year but it is doubtful if Calla Elliottiana could be so treated. Tests could be made with a few bulbs in a refrigerating chamber kept just around the freezing point and these may be satisfactory. But it would probably mean raising new bulbs every year as retarded roots of any kind lose much of their vitality, or at least have not the recuperative power of naturally grown plants.

Calla Elliottiana or Richardia Elliottiana is a native of South Africa and with C. Pentlandii, a more recent species, and probably others more or less distinct, likes a sandy, open compost in which its fleshy roots can run freely. A liberal addition of well dried cow manure should be made and during the active growing and flowering period liquid manure should be freely applied. Seed bearing is rather distressing to the plants and it is seldom that bulbs allowed to mature a crop of seeds do very well the next season. The seed takes quite a long time to ripen, often not being fit to gather before September, and is best sown at once or at least not kept any great length of time. C. Pentlandii is larger than C. Elliottiana and, in its best varieties, bears flowers of a deeper color, though seedlings vary a little in this respect.

A pretty calla, said to be a hybrid, raised by Joseph Tailby, of Wellesley, Mass., is called Mrs. Theo. Roosevelt. This is nearly hardy and comes true from seed. The flowers are not of the pure deep yellow of C. Pentlandii and C. Elliottiana being midway between its parents, the old Calla (or Richardia) albo maculata and C. Elliottiana and having the purple blotch in the center characteristic of the former. It is a prolific variety and a good grower, attaining a height of four feet or more outside.

COMMERCIAL.

Frank Bros., Beardstown, Ill.

The substantial looking greenhouses and offices shown in the accompanying illustrations are the property of Frank Bros., Beardstown, Ill., who do a good local retail trade from the products grown therein. Frank Bros. purchased the greenhouses in 1901 from Frank Burdenshaw, but they have been rebuilt and added to since then and now comprise a very neat and compact little plant of about 10,000 feet of glass. Both cut flowers and plants are grown for the home trade entirely, nothing being sold at wholesale and everything is in the best possible condition.

SAN FRANCISCO, CALIF.—Henry Kalcarnia, a florist living at 863 Wisconsin street, was brutally beaten May 23 by a gang of roughs, who held him up at Wisconsin and Twenty-fourth streets. Kalcarnia had no money to satisfy the rapacity of his assailants, so they beat him up cruelly with a gas pipe, injuring his head so severely that his skull may be fractured. He is unable to give the police any clew to the identity of his assailants.

THE ROSE.

WHITE KILLARNEY is now offered in the English trade papers. It has made a good impression over there.

A GROWER of experience gives it as his opinion that Richmond like Killarney, should not be pruned as hard as Bride and Bridesmaid.

Among the Teas.

A BUSY TIME FOR THE GROWER.

The grower who looks after his stock has very little spare time on his hands now. With good flowers being cut from the stock he wants to throw out and with other good stock which he wishes to cut down for holding over he is often in a quandary as to what to do about it. One thing is certain. The young stock must not be neglected. If the benches are not ready for it or likely to be very shortly then there is nothing for it but to repot the plants. They must not be left to starve in small pots and the sooner he makes up his mind which he is going to do the better for the stock and for his pocketbook. If the cut flowers are bringing a good price that will reimburse him for the time and expense of potting and the extra labor of planting from the larger pots then that is the thing to do, for an extra shift is an advantage rather than otherwise to the young plants owing to the better root system they will have when planted.

ESTABLISHMENT OF FRANK BROS., BEARDSTOWN, ILL.

PRUNING.

It is different, however, with the stock that is to be held over. If this is to be satisfactory the plants must have time after being cut back and the benches top dressed to get a good head of growth on before the summer is over and unless this work is started pretty soon they will not have this time. A week or two may do no harm, and it is often inconvenient to do it until after most of the planting is finished, but the earlier in reason, after June is out, the better. Even while cutting, the benches may be run slightly drier and feeding stopped without hurting the quality of the few remaining flowers much and the plants will be getting into better condition for the pruning. We have often noticed men pruning roses that would be better employed chopping sod. They are looking anywhere rather than at what they are doing, and cut off all the stems alike, weak, strong or medium, old or young. A good pruner needs to be a quick thinker and must decide on the instant what he will do with every shoot as he comes to it. He will come across little weak shoots that can never produce a good growth and these should be cut right out. Next possibly a fine, well-ripened stem that if tied down will break along its entire length and push up fine flowering shoots in fall. This he will leave as long as possible consistent with keeping a more or less regular bench. Then there are medium-sized shoots of which two to four good eyes may be left, young sappy shoots to be cut out altogether and old, hard, black wood that can not be expected to do any good if left. To think of this as he goes along and yet make good time with his work will find a man enough to do without talking baseball to his friend on the other side of the bench.

RECENTLY PLANTED STOCK.

After planting and watering in, the young stock needs careful watering at the root. By giving each a little for a few days the old ball of soil does not get a chance to dry out and the surrounding soil is kept fairly dry so that the roots can enter it freely. It is easy to so manipulate the hose with the fingers that every part of the young plants are moistened, yet very little water is spilled on the surface of the soil and this is the ideal way of carrying out the work. Unfortunately but few of the helpers in some places will take the trouble to learn how to do this, consequently the soil around the young plants soon gets into a very wet condition and though the young plants may appear all right they will not be rooting as freely or making so good a growth as when the air reaches the roots through a dry surface soil. As they begin to grow go over them carefully once a week and remove any flower buds that form, taking sufficient of the wood with the buds to insure a good shoot starting. And when going over them for disbudding note any old leaves that may have a little mildew or spider upon them, or little worthless shoots and cut them away entirely. The more leaves a plant can carry the better for the roots, provided each leaf is getting its full share of light and air, but this little scrubby growth has no influence on the roots to speak of and will certainly be no good to the plant.

COMMERCIAL.

Rose Eynsford Beauty.

This lovely single rose is a dwarf sport from the beautiful American Pillar, which created so much interest when shown last year, says the Garden. Like those of its prototype, the flowers of Eynsford Beauty are large and of a charming pink hue, this color fading to creamy white at the bases of the petals. In addition they are deliciously fragrant. The blooms are said to last a very long time when open, a trait that will render it a most valuable variety for decorative purposes. At present the plants show no signs of reverting back to American Pillar, and the blooms are freely borne in clusters. This sport has been secured by H. Cannell & Sons of Swanley, Kent, who exhibited American Pillar so finely last year. Eynsford Beauty was shown by them at the Royal Horticultural Society's meeting May 4, when the plants created a considerable amount of interest.

ESTABLISHMENT OF FRANK BROS., BEARDSTOWN, ILL.

Prospect Park, Brooklyn, N. Y.

Of the many noteworthy features of Prospect park, Brooklyn, N. Y., none, at the present, attract more attention than the rhododendrons. The miles of winding drives and walks, over hill and dale, throughout this park, make it particularly well adapted to the cultivation and display of rhododendrons and other flowering plants and shrubs. The superintendent of this park is a man who combines the attainments of civil engineer, architect and landscape gardener. By his wide range of knowledge he has formulated a system that blends the component features of a great park system into one harmonious vista. We have mentioned the rhododendrons because in the minds of many bloom is an essential at this season of the year, and nothing has yet been found that at the beginning of June makes so largely for beautiful effects as they. Here we find borders that are a mass of flowers, the plants being graded from gigantic specimens in the background down to sizes next the walks or drives that would not be out of place in the store of a retail florist.

Another very attractive feature is the mountain laurel in variety. In the selection of flowering shrubbery these varieties have been frequently overlooked, but along tree lined drives and walks their merits are well worthy the attention of both professional and amateur gardeners. A noteworthy feature is the flower garden. Beginning in the spring with a grand display of tulips this garden throughout the season is an object of admiration to the thousands who frequent the park.

We have written "the" flower garden, but there are two of them. The main garden is in a beautiful natural situation, and skilful work has greatly enhanced its beauty. Originally intended, we should judge, for a formal garden, at present there are just enough formal features to preserve artistic merit, while the natural has been so carefully preserved that, taken as a whole, it is an entrancing spot. In this garden there is a fine statue of Lincoln, which, if not superior to the St. Gaudens statue at Chicago, is by many considered equal to any reproduction in existence, of the form and features of the great liberator. There are also statues of other men noted in literature and art.

In this garden and about its entrances and borders the rhododendrons have been planted with fine discrimination as to flowering effects. A grand display of tulips, which was a great attraction to visitors in their season, is now being rapidly superseded by the summer bedding plants. There is a pavilion in this garden, and on permission of the authorities various organizations from time to time convene. The garden looks out on a lake into which a peninsula, now verdant with beautiful trees and shrubs, juts out. The other garden is what Gardener Alex. Hogg and his assistant affectionately term grandmother's garden. As this term implies, it is devoted exclusively to the cultivation of the hardy old-fashioned flowers. Around its borders a splendid collection of iris, in many varieties, now blooms. There are sweet williams, columbines, hollyhocks, Canterbury bells and many other plants coming on. Even the live-forevers and southern woods have been remembered, and the real old-fashioned pinks are in abundance.

Notes on Peonies.

The following notes on peonies are from the pen of R. B. Whytte of Ottawa, Ont., and are reprinted from the third annual report of the Horticultural Societies of Ontario. They refer to varieties grown in England, but many will be recognized as well known in the American trade:

When in England last June I visited all the exhibitions and nurseries available, where peonies were shown, and made careful notes of those that I considered the most desirable varieties that were new to me. Among the many hundreds of good sorts in cultivation there are doubtless many as good, and possibly better, than those noted, but any grower wishing to add to his collection can rely on the desirableness of any of the varieties in the annexed list. At the Royal Botanic Society's show at Regent's Park, June 17, the first one at which peonies were staged in any quantity, the large exhibitors were Kelway & Son, Barr & Son, T. S. Ware and Paul & Son, all of whom had very large collections. I visited Barr & Son, at Surbiton, and carefully examined their extensive collection. Peonies were one of the main features of the Royal Horticultural Society's show, and at the Franco-British flower show. At the Royal Horticultural Society's gardens at Wisley there were a few varieties in the large collection in fine condition at the end of June. In the following list those that I considered the very finest, in color, shape and size I have marked **; those marked *, while they appeared to me not quite up to this standard, are still very fine sorts and well worthy of a place in any collection. In the light of my increased experience the list of 12 best sorts given last year might be revised and improved by the substitution of four of the best of the varieties in the annexed list: Baroness Schroeder, Miss Salway, Ella Christine Kelway, Bunch of Perfume, taking the place of Marie Lemoine, Queen Victoria, Lady Leonora Bramwell, and Duke of Wellington.

Royal Botanic Society's Show.

**Bunch of Perfume.—Rich deep pink, large, very double.—P.
Dorchester.—Blush, very fine.
Duchess of Teck.—Creamy white to pink, guard petals, large, very fine.
Ella Christine Kelway.—Extra fine pink, very large, flat, large petals.—P.
Miss Salway.—White, primrose guard, large, extra fine center.—P.
Lady Ester Smith.—White guards, cream center, a few large petals in center.
Mr. Manning.—Dark crimson, very large, fine form.
Lady Ardilaun.—White, slightly tipped carmine, very large and very double.
Bonaparte.—Dark crimson, very large, fluffy petals.
Humei Carnea.—Pink guard, white center, large, very fine.—P.
Delicatissima.—Blush, very large and double.—P.
Mad. Calot.—Creamy blush, deep shade, very fine.—P.
La Tulipe.—White, faintly tipped carmine, very fine shape.—P.
Albert Crousse.—Clear pink, very large, very double.
*Sainfoin.—Rich deep pink, semi-double.
Hallam.—Crimson, large and very double
Limosel.—Deep pink, very double, good size.—P.
Baroness Schroeder.—Pale pink to cream, large guards, medium size.—P.
Portia.—As Festiva Maxima, with a shade of blush.
Sir M. Singe.—Dark crimson, ball shape, very fine.
Countess of Clancarty.—Very fine, pure white.—P.
Gloire de Patrie.—Very large, deep pink.—P.
Lord Rosebery.—Fine shade of pink.
Leonie.—Pale pink, medium size, fine shape and color.—P.
Triomphe de Paris.—Creamy with a shade of pink, large guard.
Alba Superba.—White, cream center, good size.

Barr's Nursery, June 19.

Marshall McMahon.—Light crimson, large.
Eugene Verdier.—Pale pink, semi-double, shaded salmon.
Washington.—Silvery pink.
Snowball.—White, large guards.
Silenus.—Silvery pink.
Gen. Cavaignac.—Rosy silvery pink, shaded clear pink.—P.
Charles Verdier.—Dark rosy.
Duchess of Nemours.—White to faint primrose.—P.
Mistress Parkinson.—Lavender pink, fine form.
Duchess of Sutherland.—Pink, good color and shape, medium size.—P.

Kew Gardens, June 19.

L'Elegance.—Rosy pink, good.—P.
Lady Carrington.—Blush to white.—P.
Mons. Dupont.—Very light La Rosiere, very fine.

Royal Horticultural Society, June 23.

**Sir Geo. White.—Very large, rosy pink.
Rev. W. Wilks.—Very large pink.
Lady Romilly.—As Mad. D'Hour, rather deeper pink.
Marie d'Hour.—Rosy pink, very fine.
Mons. Roussilon.—Very large, dark blush.—P.
*Lottie Collins.—Very large, light crimson, semi-double, yellow anthers.
Lord Cromer.—Large rosy pink.
Duke of Devonshire.—Light crimson, yellow centers.

Franco-British Exhibition, June 24.

**Mons. C. Leveque.—Extra fine blush.—P. carmine.
Enchantress.—Very pale blush.
Claude Loraine.—Extra large pink, good form.
Edmond About.—Extra fine pink, streaked fine.
*De Candolle.—Rosy pink, fine shape.
Felix Crousse.—Dark rosy red, ball shaped.

Wisley, June 27.

Md. D'Hour.—Very large, free bloomer, flesh color, tipped carmine.
M. Jules Elie.—Silvery pink, very large.
La Rosiere.—White, yellow center, semi-double, remarkably free bloomer, very sweet.
*Marie.—Very pale blush.
Gismonda.—Pink, very large.
Mad. Hutin.—Very double pink, center nearly white, ball shape.

Revised List of Twelve Best.

**Viscount de Fonceville.—Very large pink, fine form.
Mde. D. Galhau.—Very large pink, extra
Festiva Maxima.—Very fine, white-tipped carmine.
Floral Treasure.—Soft rose, fragrant, free bloomer.
Asa Gray.—Salmon pink, very large, free bloomer.
Claire Dubois.—Light rose, very large, free bloomer.
Ella Christine Kelway.—Extra fine pink, very large, flat, large petals, sweet.
Baroness Schroeder.—Pale pink to cream, large guards, perfumed.
Miss Salway.—White, primrose guards, large, very fine center, perfumed.
Bunch of Perfume.—Rich deep pink, large, very double, perfumed.
Rubra Superba.—Purplish crimson, very free bloomer.

Duty on Artificial Wreaths.

The board of general appraisers June 3 reversed Collector Loeb in his assessment of a 50-cent duty on wreaths composed of artificial flowers. The flowers were mounted on wire frames. Collector Loeb held that the articles should pay duty as "artificial flowers" with a tax of 50 per cent.

Benjamin Stearns & Co., the importers, set up the claim that the goods should be allowed to enter at 45 per cent under the provision in the tariff law for articles composed in chief value of manufactures of metal. General Appraiser McClelland, who writes the decision for the board, says that the board is satisfied that the merchandise under protest is not artificial flowers within the meaning of the Dingley tariff. Under the circumstances, the importers' protest is sustained.

MILFORD, CONN.—Comstock & Hungerford had charge of the decorations on the green for Memorial day.

Ban on Flowers at June Commencements.

Chicago Florists Making Concerted Effort to Have the Embargo Placed Upon the Trade by Ex-Superintendent Cooley Removed.

The Campaign.

At the next open meeting of the board of education, June 16, a committee made up of wholesale and retail florists will appear before the board and present arguments to show that the rule prohibiting flowers at June commencements in the public schools put in force some three years ago by ex-Superintendent Cooley should be abolished. THE AMERICAN FLORIST, which for the past 25 years has always been the leader in every movement looking to the welfare and advancement of the florist trade, has started an agitation with the view of having this ban removed and herewith presents to its readers an article which appeared in The Chicago Tribune of June 4, together with the views of some of the leading men in the trade. The Tribune says:

"At the next meeting of the board of education, wholesale and retail florists will try to have rescinded the rule established by former Superintendent Cooley three years ago prohibiting the giving of flowers to graduates at June commencements.

"The florists declare they are losing $100,000 a year because of the edict, which they denounce as unconstitutional and tending to curtail the freedom of school children and their parents. 'The parents of many graduates cannot afford to send them flowers,' said President Schneider, 'and these children would be embarrassed and hurt if their schoolmates received presents and flowers. The school board always has made every effort possible to put all children on an equal footing. Some of the schools where sewing is taught are going so far as to have the girl graduates make their own dresses for the June exercises so that there will be no jealousy.'

"In answer to this argument, a representative of THE AMERICAN FLORIST declared the florists would agree to furnish from 100,000 to 200,000 peonies or other flowers for the commencements free of charge if the order were rescinded. 'We only want to sell the flowers to the parents and friends of those children who can afford to pay for them,' he said. 'If the order is rescinded, we will furnish flowers for all those children who are not provided for. This can be left in the hands of the teachers, who can give us the names of those to whom flowers have not been sent.'"

Comments of the Trade.

IMMEDIATE AND AGGRESSIVE ACTION.

In less than three weeks our public schools will close for another term and the question now uppermost in the minds of our local florists is: Will the board of education continue to enforce their edict made some years ago barring the presentation of flowers at the annual commencements of our schools? As long as Superintendent Cooley was the one-man power of our board of education it seemed useless to make another attempt to persuade the board to rescind this rule. At present, however, there appears to be some hope of having the board make the much desired change. It is known that in the present board there are at least three or four members who are with us in this matter.

That this subject is of the greatest importance to the trade is of course admitted. Immediate and aggressive action must be taken if any results are to be obtained this season and all of us, whether members of this committee or not, should work to this end. Let each and every one of us write to the board of education urging them to change the rule made by our former board, stating the reasons why such a change would be not alone for the benefit of our craft—indeed, I should advise not to lay too much stress on this point for fear of marring our case by appearing too selfish—but for the best interest of the pupils and the public at large.

THE BENTHEY-COATSWORTH CO.
(Per F. F. Benthey.)

FLOWERS AS AN EDUCATOR.

Regarding the giving of flowers at the commencement exercises in our schools, would state that we are heartily in favor of this practice, not only because it means advancing our particular business, but because we believe that the receiving and admiring of flowers by children tends to betterment. No person, be he child or man, can view a work of art or beautiful flowers without being the better for it; and, while in many cases the fact that one child receives flowers and one does not, works a hardship, at the same time this same hardship is expressed by one child being better dressed at the commencement exercises than the other, and the board of education of Chicago in discriminating against the florist is no more right than it would be in discriminating against the dry-goods store.

E. H. HUNT,
(Per C. M. Dickinson, Mgr.)

THE SURVIVAL OF THE FITTEST.

The position taken by Ex-Superintendent Cooley and the then board of education is untenable and smacks much of socialism. The education of children is to fit them for the practical life they will lead when they finish their schooling, and they will then find that everyone must stand on his own footing. There is no such thing as equality in this life as the old rule of the survival of the fittest holds good today as it always has. You may count on us.

A. L. RANDALL CO.

EARNEST SUPPORT OF PETER REINBERG.

Entirely apart from what this means to the flower trade I firmly believe that the school board has taken away much of the beauty and happiness from the commencement exercises. These occasions occur but once in the life of a child and a gift of flowers at such a time goes straight to the heart of every little one. Your movement has my earnest support and hearty co-operation.

PETER REINBERG.

FLORISTS AS TAX PAYERS.

The school law now in force should be abolished, absolutely rescinded; why should the board of education pass laws that are discriminating to the florist? Do not the florists of Chicago contribute their mite towards the city and school taxes, from whence comes the money to pay these officers, teachers, to maintain and erect new school buildings and the like? Surely the florists of Cook county are each year called upon for a goodly sum, when you stop to consider the enormous amount of money that is invested in greenhouses inside of Cook county. Therefore I believe the florists should enjoy some of the patronage that is denied them by the board of education. Are not the florists entitled to just the same privileges as the milliners, hatters, shoe dealers and clothiers? If it is a saving that they are after, why not get busy with the textbook publishers and insist upon Chicago getting its books as cheap as Indiana towns?

Regarding free flowers for pupils whose parents are in needy circumstance all that is necessary is a word from the teachers and I as well as other florists, would freely respond.

J. A. BUDLONG.

SHOULD RETAIN A LAWYER.

The florists will some day wake up and find they must do like dealers in all other lines, bond themselves together and act in concert. The trade is losing a large amount of money every June; one-half of this amount would go to the jobber, the grower would get all of this less our commission and the retailer would get the balance. Just think, what a lot of shoes, dry goods, and other merchandise these profits would buy. Taking your clipping as a basis, let us get up a fund of say one-half of one percent of both the wholesale and retail dealers gross year's business; get the proper lawyers and see if this law or ruling is sound. In this case it requires action, not talk. Action as one man, not a bunch, or a tug of war.

KENNICOTT BROS. CO.

LIMIT THE BOUQUETS.

In regard to flowers for the common grades, we do not think there were many used but for the high school grades a large quantity were bought. The estimate of $100,000 per year is altogether too high. We should say $10,000 would be a fair estimate if the matter could be estimated at all. There are still quantities of flowers sent to the homes of the children. We think if the number of bouquets allowed given to any one child was limited to a certain number it would tend to do away with the old-time troubles when some of the children had from half a dozen to a dozen bouquets sent them.

BASSETT & WASHBURN.

DEAMUD WILL ASSIST.

In reply to yours regarding flowers in schools, we shall be very glad to assist on any committee with the view of getting the order rescinded prohibiting their use at the commencement exercises in June. In regard to our donating any flowers, this we personally could not do but we could promise that our growers would authorize us to give a certain percentage of their stock when we could show them that by so doing they could get much better prices for the balance. J. B. DEAMUD CO.

YOURS FOR THE FIGHT.

You cannot quote us too strongly as being in favor of this movement. That the florists have been discriminated against goes without saying and we are glad to note that THE FLORIST has come to the front as a champion of the cause. If you can put this through the trade will arise and call you blessed. Yours for the fight, ZECH & MANN.

GEORGE REINBERG APPROVES.

Regarding the rule established by former Superintendent Cooley prohibiting the giving of flowers to graduates at schools, would say that we are very much in favor of the movement started by THE FLORIST to have this rule rescinded and will do all in our power to help the good work along.

GEO. REINBERG.

NEAR TO EVERY MAN'S HEART.

The movement which has been started by THE FLORIST is near to the heart of every man in the trade and you may use my name in any way you see fit to advance the good cause.

JOHN KRUCHTEN.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50. Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time.

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements.

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:
A. F. FAULKNER, 1133 Broadway, New York.
ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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SCHEDULES of the June exhibition of hardy flowers, roses and fruit and the autumn show of chrysanthemums, held June 15 and November 4-6, respectively, under the auspices of the Tarrytown, N. Y., Horticultural Society, are out and may be obtained of the secretary, E. W. Neubrand, Tarrytown, N. Y.

THE third annual report of the Horticultural Societies of Ontario is a book of 124 pages, containing much interesting matter relating to the work of these societies in the province and many illustrations that are suggestive of good work, besides papers and other reprint matter that well repays perusal.

HELP of a certain kind is still plentiful but there is a scarcity of skilled men of good character.

POWDERED alum is recommended as a cure for slugs indoors or out and, it is said, will do no harm to plants unless used in unnecessarily large quantities.

THERE are indications that some of the single stemmed orchids of the vanda and phalænopsis types will be increasingly grown for cutting in the future.

No better proof of the widespread interest in horticultural pursuits can be needed than the greatly increased space given them in newspapers, magazines and lay publications generally.

We have received from Wm. Murphy, superintendent of the trade exhibition at the convention of the Society of American Florists, to be held at Cincinnati, O., August 17-20, his instructions as to shipping freight and the rules relating to the management. These will be given full attention in our next issue.

THE great show of the Royal Horticultural Society, held in the Temple gardens, London, is said to have eclipsed all former shows in magnificence. Awards of merit were given by the floral committee to: Roses Coquina, Margaret, Mrs. Taft, Jessie and American Pillar; Carnation Carola; Begonia Pink Pearl; Iris Sir Dighton Probyn and Sir Trevor Lawrence; Ficus australis variegata; Ptychoraphis Siebertiana and Marguerite White Perfection.

IT has always been the opinion of the AMERICAN FLORIST that school authorities had no more right to dictate what flowers should be distributed at school commencements than they have the right to pass on the shoes, ribbons, muslins or hair ornaments of the pupils. In this direction, and on behalf of the cut flower trade in and about Chicago, our representatives are trying to do some effective work against edicts of this kind. Florists in other cities who are under this ban should make a similar organized effort, and write us.

Glass.

Prices on greenhouse glass are beginning to stiffen up a little and promise to go higher in the next 30 days as, while some of the factories will run all summer, a larger number will shut down July 1.

Sweet Pea Society Proposed.

A national sweet pea society for America is suggested by Harry A. Bunyard, who has issued a circular letter regarding this proposition. Full particulars can be had by addressing him at 342 W. Fourteenth street, New York.

National Council of Horticulture.

The ninth installment of the press service of the National Council of Horticulture contains articles on "Hardy Chrysanthemums," "Tea Roses," "Dogwoods" and "Brussels Sprouts." Seedsmen, nurserymen and florists should induce the editors of their local papers to send for and use these excellent articles which are sent free on application to J. H. Burdett, 1720 W. 104th place, Chicago. They help to stir up a liking for gardening in the vicinity, and thus help trade with amateur growers.

The Horticultural Society of New York.

FALL EXHIBITION SCHEDULE.

Secretary Geo. V. Nash, of the Horticultural Society of New York, is now sending out the preliminary schedule of prizes and classes for the fall exhibition to be held in the American museum of natural history in that city. The schedule as it now stands includes good prizes for chrysanthemums in plants and cut flowers, roses, carnations, orchids, foliage plants, fruits and vegetables and the society's certificate for a meritorious new plant not yet in commerce. The society has been liberal in the number and amount of the cash premiums, among which we note $25 and $15 for three specimen bush chrysanthemums and the same amounts for three standards, $20 and $10 for 50 blooms, $35 and $20 for 100 American Beauty roses, and good prizes for other flowers and groups of plants. In the sweepstakes for 100 carnations the society's silver medal is offered and diplomas are offered for decorations and floral pieces.

The success of last year's exhibition is still fresh in the mind of exhibitors and the general public, and we hope that this success will be repeated. Growers at a distance can ship their stock and this will have every attention from the management, and as the competition is not limited to members of the society there should be quite a number of these exhibits. All who are interested should write for this preliminary schedule and particulars to Geo. V. Nash, secretary of the Horticultural Society, Botanical Gardens, Bronx Park, New York.

Important Foreign Exhibitions.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scotland.

Meetings Next Week.

Baltimore, Md., June 14, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Boston, Mass., June 15.—Gardeners' and Florists' Club of Boston, Horticultural Hall.

Cleveland, O., June 14, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

Lake Geneva, Wis., June 19, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

New Orleans, La., June 13, 2 p. m.—Gardeners' Mutual Protective Association, 118 Exchange alley.

New Orleans, La., June 17, 8 p. m.—New Orleans Horticultural Society, Kolb's hall, 127 St. Charles avenue.

Newport, R. I., June 16.—Newport Horticultural Society.

New York, June 14, 7:30 p. m.—New York Florists' Club, Grand Opera House building.

Pasadena, Calif., June 18, 8 p. m.—Pasadena Gardeners' Association, G. A. R. hall, East Colorado street.

Philadelphia, Pa., June 15, 8 p. m.—Florists' Club of Philadelphia, Horticultural hall, Broad street, below Locust.

Rochester, N. Y., June 14, 7:30 p. m.—Commercial Florists' Association of Rochester, 24 Stone street.

Salt Lake City, Utah, June 15.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

San Francisco, Calif., June 19.—Pacific Coast Horticultural Society.

Scranton, Pa., June 18, 7:30 p. m.—Scranton Florists' Club, Guernsey building.

Seattle, Wash., June 15.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.
Springfield, O., June 14.—Springfield Florists' Club, office of the Good & Reese Co.
St. Paul, Minn., June 15, 8 p. m.—Minnesota State Florists' Association, 510 Snelling avenue, north.
Toronto, Ont., June 15, 8 p. m.—Toronto Gardeners' and Florists' Association, St. George's hall, Elm street.

OBITUARY.

Charles Zuber.

Charles Zuber, the youngest son of Victor Zuber of the firm of Victor Zuber & Sons, growers, of Whitestone, N. Y., died in a Brooklyn hospital on June 4. The cause of his death was spinal meningitis. He was ill for less than one week and was removed to the hospital in the hope that more constant medical attendance might save his life but all was unavailing. He was in the twenty-third year of his life and a young man popular among his acquaintances. The funeral was held on June 6, interment being in the Catholic cemetery at Flushing. He is survived by a father and stepmother, four brothers and four sisters.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.
For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.
Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By experienced seedsman, either in house or on road.
Address Key 833, care American Florist.

Situation Wanted—Grower of roses, carnations 'mums and general stock; designer and decorator. Address
Key 825, care American Florist.

Situation Wanted—Good grower and propagator; well up in all greenhouse work; strictly sober; good references. Address
Key 823, care American Florist.

Situation Wanted—Gardener Scotchman, age 32, desires position as head on private estate; best of references from England and Scotland. GARDENER, 137 W. Girard Ave., Philadelphia, Pa.

Situation Wanted—As gardener in private place; am experienced in general greenhouse work, lawns and vegetables; married; best references. Address Key 836, care American Florist.

Situation Wanted—By experienced grower of carnations 'mums etc.; has had general greenhouse experience; reliable and sober; commercial place preferred. Address
Key 817, care American Florist.

Situation Wanted—By experienced grower of roses, carnations, violets, chrysanthemums, decorative and bedding plants; middle aged, single, sober; state wages. Address
Key 822, care American Florist.

Situation Wanted—By sober, young man; 24; experienced as rose carnation and 'mum grower; capable of taking charge of section or commercial place; kindly state wages. Address
Key 824, care American Florist.

Situation Wanted—By practical all 'round man; inside or out; private or commercial; eight years in last position; married; English; 25 years' experience on private and commercial places. Address Key 821, care American Florist.

Situation Wanted—Gardener, 20 years' experience; German, single, capable of managing and taking care of private place or grounds; am an all around handy man with tools; good Christian, honest, sober and industrious; best of reference.
Key 832, care American Florist.

Situation Wanted—Near Phila., as manager or working foreman on commercial or private place; 10 years experience in growing carnations, 'mums, vegetables and bedding plants; age 28; married; best of references; state particulars.
Key 828, care American Florist.

Situation Wanted—By young married man, German, as foreman and grower of carnations; can also grow roses and other plants; am strictly sober and good worker; when writing state highest wages you are willing to pay, also full particulars.
Key 830 care American Florist.

Help Wanted—Experienced gardener; good pay and steady position for good man. Call at 3116 Indiana Avenue, Chicago.

Help Wanted—A man for general greenhouse work; one experienced in propagating pot plants, 'mums and bedding stock. Address
Key 849, care American Florist.

Help Wanted—An all-around greenhouse man, sober, steady, single, and German prefered; state wages expected with or without room and board. Address HANS SCHMALZL, Lincoln, Ill.

Help Wanted—Working foreman; one who can grow first-class roses, carnations and mums; also capable of handling men to advantage on a modern establishment. Address
Key 834, care American Florist.

Help Wanted—Florist for general greenhouse work; experienced in propagating potted plants and care of outdoor work; if married man can furnish residence; first-class opportunity.
NEAL & CO., Lebanon, Ind.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist

Help Wanted—Reliable florist and gardener for general stock; must be capable of taking charge; good place for the right man; state wages wanted and experience; single man preferred.
WM. WEAVER, McAlester, Okla.

Help Wanted—A good working foreman, middle aged married man preferred; no booze fighters; this is a desirable place; good surroundings and five room house.
L. SWARTHOUT, Washington, Pa.

Help Wanted—A manager for retail florist business; must be good salesman and experienced in decorating and make-up work; give references and state age, experience and salary expected in first letter. Key 835, care American Florist.

Help Wanted—A first-class grower of roses carnations, chrysanthemums and a general line of potted plants for the retail trade; send references; position open now; good wages.
HUBBARD'S SEED HOUSE, Topeka, Kans.

Wanted—A secondhand Kroeschell boiler, No. 1, in good shape; will pay cash.
A. A. O'BRIEN, Union City, Ind.

Wanted—Will James Brownlee kindly communicate with Forrest's Greenhouses, Washington, Pa.

Wanted—To locate in some town of about 5000 inhabitants in California or other western state; would consider purchase of land or of an established greenhouse business. Reply, giving full particulars of locality, price, etc. to
Key 827, care American Florist.

Wanted To Buy—Easy terms; vicinity of Chicago retail or retail-wholesale plant, 150,000 to 200,000 feet glass; modern stocked; full particulars when replying
W. H. A., 530 N. Elmwood Ave., Oak Park, Ill.

For Rent—Four greenhouses in good condition, good home trade. R. VIRUS,
1939 W. Leland Ave., Jefferson Park, Chicago.

For Sale—Greenhouse property; 10,000 feet of glass; ideal location; write for particulars to
Box 114, Lansing, Mich.

For Sale—A valuable greenhouse property in a good town; no competition; ill health.
DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—Greenhouse in Salida, Colorado, 6000 feet of glass, good trade, no competition; price low; address owner.
J. H. FREEMAN, Salida, Colo.

For Sale—First-class florist's establishment on the south side, Chicago; a bargain; must be sold atonce; owner leaving city. Address
Key 831, care American Florist.

For Sale—$500 will buy the only greenhouse and florist business in one of the best counties of Illinois. Possession given after June 15. Investigate this bargain without delay. Address
Key 806, care American Florist.

For Sale—Three greenhouses; two 20x90 feet and one 17x90 feet; all in good condition; stocked with chrysanthemums, carnations and other plants; hot water heat; lot 99x210 feet; doing a first-class retail business; located in a city of 500,000 inhabitants; call or write to
GEO. NEUBERT,
8417 Connecticut Ave., Cleveland, O

Situation Wanted.

By florist and all-around grower; capable of taking entire charge.

Key 829, care American Florist.

WANTED.

Nursery Foreman

Permanent position for right party. Must be well up on growing high grade ornamentals, and a good handler of men.

Landscape Foreman

Experienced in carrying out landscape work and familiar with ornamental stock.

THE ELM CITY NURSERY CO.,
NEW HAVEN, CONN.

The Season is Late

AND THERE IS STILL

HEAVY DEMAND FOR

BEDDING PLANTS
WINDOW BOX PLANTS
PLANTS FOR VASES

Advertise Your Surplus Now.

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Brides and Bridesmaids

Our stock is just a **Little Bit Better** than you will find anywhere else because we give our

PERSONAL ATTENTION TO EVERY ORDER

All other stock in great profusion and at right prices.
A trial order will convince you.

ZECH & MANN, WHOLESALE FLORISTS L. D. Phone, Central 3284 51 Wabash Avenue **Chicago**

Cincinnati.

OUTDOOR STOCK PLENTIFUL.

With the thermometer hovering about 90° and copious rains, outdoor stock of all kinds is being rushed to the market in great quantities. This, combined with an enormous crop of carnations which struck town last Wednesday, makes it easy to figure the results. Roses are getting smaller every day and in some cases it is pretty hard to tell whether they have any foliage owing to the mildew which is curling the leaves; in fact roses have not been as badly affected with mildew for a good many years as they are at present. The carnation crop has arrived and to give an idea of the quantities received, Will Murphy says it kept him busy between sales last Friday until four o'clock in the afternoon to get his flowers in jars. Spanish iris is here in quantity and the wholesale men are making large shipments to northern markets it being an utter impossibility to sell one-third of the stock coming in. George & Allan are cutting some of the finest lily of the valley of their career which brings top market prices. Sweet peas are in oversupply and peonies are a glut. Ferns are not quite as plentiful but this no doubt can be attributed to the heavy rains, the pickers not being able to make any headway. Other green goods are in good supply, with the exception of smilax, which has to be cut in 3-foot lengths to fill orders.

NOTES.

Mrs. Mary Thomas on upper Vine street has the sympathy of the trade in the loss of her mother who died last week of pneumonia at the age of 72 years. The funeral took place on Saturday and nearly every florist in the city sent a floral tribute to the house of mourning.

The next regular monthly meeting of the Florists' Society will be held June 12 in the club rooms, Jabez Elliott Flower Market. At this meeting many matters of importance will be brought up and it is the wish of the officers that as many members as possible attend.

Martin Reukauf was in the city on Friday arranging for space for exhibiting the Bayersdorfer wares next August at the convention. He had his eye on one particular spot in the exhibition hall which covers 1,000 feet.

Geo. Corbett, as usual, is first in the market with outdoor sweet peas and they are fine, the variety being Mont Blanc. S.

Fancy and Dagger FERNS $2.50 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000: 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.
New Crop Fancy and Dagger Ferns, $2.00 per 1000.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Albany, N. Y.

The June meeting of the Florists' Club was held at the establishment of Patrick Hyde, where a considerable number of the members congregated. The special committee, composed of F. A. Danker, Louis Menand, F. Henkes, and William Kurth reported that it had carried out instructions delivered at the previous meeting to decorate the soldiers' monument in the Rural cemetery. The committee on Decoration day placed upon the monument a large wreath of magnolias and Harrisi lilies with a ribbon inscribed with the name of the club. One new member was proposed and will be voted upon at the next meeting. Members of the club reported on the business incident to Decoration day. All seemed to be satisfied with the character and volume of the demand for flowers. The supply was equal to the demand. The next meeting of the club will be held at the home of President Fred Goldring, Slingerlands, on the evening of July 1.

R. D.

NORTHAMPTON, MASS.—A. B. Green reports a busy season.

DETROIT, MICH.—Robert Flowerday has been appointed general superintendent of parks and boulevards in this city.

E. A. Beaven

LOG MOSSES

Natural and Perpetuated.

Special prices for quantity lots for future delivery.
EVERGREEN, ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.
Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., **NEW YORK**

New Crop Ferns

FANCY and **DAGGER** ready May 1st.

Special price for large orders
Price $1.25 per 1000.

CALDWELL THE WOODSMAN CO.,
Evergreen, Alabama.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax. Ferns, Palm Leaves** and all kinds of **Green Goods.**

For Commencements, Weddings
AND GENERAL WORK

We Shall Have an Immense Stock of Beauties, Roses and Carnations. Roses Very Cheap.
We Have a Large Range of Glass Planted Especially for Summer Flowers.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00 to $4 00
24 inch	2 00 to 2 50
15 to 18 inch	1 50
8 to 12 inch	1 00
Shorter stems	50 to 75

KAISERIN, KILLARNEY, RICHMOND and PERLE.

	Per 100
Long and select	$8 00
Good average lengths	$6 00 to 7 00
Medium lengths	5 00
Short lengths	3 00

MAID and BRIDE.

Long and select	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$ 2 00 to 3 00
Short Roses in not less than 500 lots, per 1000	$15 00

CARNATIONS.

	Per 100
Fancy, long, Red O. P. Bassett	$3 00
White and Winsor	$2 00 to 3 00
Enchantress, fancy	2 00 to 3 00

EASTER LILIES, per 100, $6 00; per doz	$1 00
SWEET PEAS, pink and white, per 100	$ 50 to 1 00
LILY OF THE VALLEY, per 100	3 00 to 4 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, New Crop, per 1000	2 00 to 3 00

Bassett & Washburn,
Store and Office: 76 Wabash Ave. **CHICAGO.** **Greenhouses: HINSDALE, ILLINOIS.**

Insect Eating Carnations.

ED. AMERICAN FLORIST:—

I have a worm eating my carnations. It is a borer and enters at the root of the plant, boring up through the center, eating out the heart and coming out at top of ground. The plant dies just above the ground, leaving the top green. It is a round worm and bores a round hole. So far it has hurt only the plants in the open ground, with a few exceptions. It is on my rooted cuttings principally. I send you a specimen in an envelope. He is a hard customer to reach as he is on the inside of plant.

Kansas. G.

As near as we can make out from the specimen to hand and the description given, the insect that is causing the trouble is the common stalk maggot or weevil. We have not heard of this pest being troublesome with carnations before; the fact of its boring up through the stem makes it a difficult problem to overcome. We would advise close watching of any affected plants, removing any that the insect has destroyed. A little soft coal soot sprinkled lightly around the base of the plants may be of some benefit in checking these worms. Wood ashes are also beneficial in checking them. It would do no harm to experiment a little with both of these articles as a means of overcoming the pest.

C. W. JOHNSON.

Injury to Field Carnations.

ED. AMERICAN FLORIST:—

Please inform me what I can do with cutworms, at least that is what I think ails my plants. My field carnations are looking fine, only where there seems to be something at work at the roots; they begin to turn light and die. I was afraid for a while it was a disease until my sweet peas began to do the same. I pulled them up and there seems to be no root to them. Now if it should be a cutworm what can I use to kill the insect without hurting my plants?

Kansas. J. R. G.

The trouble here is, without a doubt, caused by cut worms. These are usually very troublesome when carnations are planted in freshly plowed sod ground and they are difficult to eradicate for the first and sometimes the second season. We remember having the same trouble with a batch of Jubilee when it was a novelty, it being so bad that the plants were put out one week, lifted and potted again within 10 days and housed as quickly as the space could be made ready for them in order to save what we could of the plants. We would not hesitate to advise the same measures in this case if the conditions are bad enough to warrant it. By scratching a little in the soil around the plants early in the day a great many of the worms can be caught and in this way "J. R. G." may possibly overcome them.

C. W. JOHNSON.

All Specialties
— FOR —
Garden Parties,
June Weddings and
School Exercises
Should Be Advertised Now

Peonies Our local growers are just coming in. The supply is large and the quality fine.

Killarney Coming in splendid quality; none better to be had in this market.

American Beauty in large supply; fine quality; $3.00 per 100 up to $15.00 to $20.00 for the best long stems.

Carnations In large supply. **Fancy Valley** always on hand. Send for our weekly price list unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago.**

PRICE LIST

A Large Supply of Good Stock in All Lines :: :: :: :: :: ::

American Beauties

	Per doz.
Long stems	$4.00
30-inch stems	3.00
24-inch stems	2.50
20-inch stems	2.00
15-inch stems	1.50
12-inch stems	1.00
Short stems	.75

	Per 100
Richmond	
Select	$6.00 to $8.00
Medium	4.00 to 5.00
Killarney	
Select	6.00 to 8.00
Medium	4.00 to 5.00
Bridesmaid,	4.00 to 6.00
Bride,	4.00 to 6.00
Ivory	4.00 to 6.00
Roses, our selection	3.00

CARNATIONS

$2.00 per 100.

Easter Lilies $1.50 per doz.

	Per 100
Valley	$3.00 to $4.00
Callas	1.50 per doz.
Asparagus Plumosus	
Extra quality, per bunch	50c to 75c
Fancy Ferns, per 1000	$3.00

PETER REINBERG

35 Randolph St., CHICAGO.

BROOKLYN, N. Y.—Geo. Schuneman is building a greenhouse to be used for carnations.

CHESTER, PA.—There was a decided scarcity of flowers here for Memorial day. The sudden change in the weather resulted in flowers and plants of all kinds being given a setback. In some favored positions some of the home growers were successful in securing a few of the plants, but there are many instances of failure.

Wholesale Flower Markets

ST. LOUIS, June 9.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 4 00
" Chatenay	2 00@ 4 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 5 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 4 00
" Rhea Reid	4 00@ 6 00
" Richmond	2 00@ 6 00
Carnations, fancy	1 50@ 2 00
" common	50@ 1 00
Lily of the Valley	2 00@ 3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, dagger, per 1000	2 00@ 2 50
Smilax	12 50

CINCINNATI, June 9.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch, 50c	
Boxwood, per lb. 15c	
Ferns, Eastern, per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe, per 100, 50	
" per 1000, 4 50	
Smilax	1250@15 00

BUFFALO, June 9.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	1 00@ 2 50
Callas	8 00@10 00
Cattleyas	60 00@75 00
Daisies	75@ 1 50
Lilac	25 00@50 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	1 00@ 2 00
Pansies	40@ 50
Peonies	2 00@ 5 00
Sweet Peas	50@ 1 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Smilax strings	15 00

MILWAUKEE, June 9.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodills	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

NORWICH, CONN.—The furnace of Joseph Smith's greenhouse on Washington street was struck by lightning May 29.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

Weiland & Olinger,
128 E. Third St., CINCINNATI, OHIO.
Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,
WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

RICE BROTHERS
Wholesale Florists and Supplies,
115 N. 6th St., MINNEAPOLIS, MINN.
Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75
	Per 100
Killarney, select	$ 6 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, se'ect	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Valley	2 00 to 4 00
Daffodils	3 00 to 4 00
Callas	8 00 to 15 00
Asparagus Plumosus Extra quality, per bunch	75c
Fancy Ferns, per 1000	$ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

St. Louis.

BUSINESS DULL.

Weddings, school exercises and summer garden theater parties together with funeral work, form the outlet for the many flowers now coming into this market. Trade in general is very dull. Many outdoor flowers crowd the market. Carnations, roses, peonies and jasmines are plentiful. The wholesalers as well as the retailers are looking for customers and inducements have to be given to start anything moving. Vacations, picnics and fishing parties are now talked of and within the next 10 days the dull season will have fairly started.

NOTES.

On Sunday, June 6, the Missouri Botanical Garden opened its doors from 2 p. m. till sunset, according to the will of Henry Shaw, donor of the garden. The new attraction was the newly completed library and herbarium building. A variety of roses and yuccas, also a bed of Baby Rambler roses, are exceptionally beautiful, also the collection of exotic orchids, insect eating plants, sensitive plants and ferns. In one of the houses is a very large vanilla. The attendance on Sunday was 25,000.

Bentzen Floral Co. is erecting a greenhouse and store room a few doors south of the present location where a fine stock of decorative and flowering plants will be on hand. This company has built up a fine trade and the present location is entirely inadequate for its rapidly growing business.

We regret to announce the death of Mrs. Werner, wife of Alfred Werner, of Clayton. The sympathy of the florists is extended to his brother Hugo, of the firm of Werner Bros. Special floral designs were sent to the funeral.

Will Young, president of the Florists' Club, celebrated his fifty-second birthday with his family at the villa at Delmar garden. Will is looking well and many years of happiness it is hoped by his friends will be his lot.

Two young girls went to the store of H. G. Berning and ordered some flowers, saying they were wanted by Charles B. Bleekert. They were arrested, as inquiries over the 'phone proved them to be frauds.

Geo. Waldbart reports the loss of his delivery horse, also a valuable dog, both dropping dead. W. F.

JUNE WEDDINGS
and School Closing Exercises

WE OFFER SOME VERY CHOICE STOCK

AMERICAN BEAUTIES

These are grown specially for summer use, and are the best Beauties hat can be found on this market. Try them and be convinced.

Also extra good quality

Maid, Bride, Richmond, Killarney and Kaiserin Roses

We also offer **CARNATIONS**

of the choicest varieties, the quality of which is unsurpassed on this market.

SWEET PEAS

with us are certainly fine. We have them in the light pink or Enchantress shade, lavender, red, white, and navy blue, an excellent violet shade.

PEONIES

We have them in white, pink and red; the quality of them being **unexcelled.**

We can supply you with fine

Valley, Smilax, Asparagus, Adiantum

and all other stock in season.

Send in your orders and secure the BEST THE MARKET AFFORDS

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Walla Walla, Wash.

Business with Huff & Young for Decoration day was good; 50 per cent better than a year ago. They picked 3,000 sweet peas from three rows 50 feet long the day before Decoration day from the garden. Outdoor roses were just coming into bloom and peonies were fine. This firm has made plans for two more greenhouses, one for asparagus, 20x40 feet and one carnation house 35x80 feet.

HUNTINGDON, PA.—Herbert Bratton, son of H. G. Bratton of the Huntingdon Greenhouses, has opened a store in Lewiston.

BERKELEY, CALIF.—The short course in horticulture at the university, which closed May 22, has been one of the most successful in the history of the institution.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

—CONSIGNMENTS SOLICITED.—

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Shibeley-Mann Co., Inc.

WHOLESALE DEALERS IN

FLORISTS' SUPPLIES and Cut Flowers

1203 Sutter St., SAN FRANCISCO, CAL.

Choice Carnations and Peonies

AT THE LOWEST MARKET PRICE. Special price on large lots.

CHICAGO CARNATION CO., A. T. PYFER, Mgr., Joliet, Ill.

Chicago.

CARNATIONS HARD TO MOVE.

A diversity of opinion has prevailed on the market the past week as to conditions and it is rather hard to weld the various opinions into a coherent whole as to just what those conditions are. There are a great many poor flowers on the market that are offering for little or nothing and for these the demand has been practically nil. Thrips and mildew have played havoc with the roses, especially American Beauty, Bride and Bridesmaid, and while some especially fancy stock in these varieties was noticed and moved freely at good prices, the majority of them were poor and hard to move at any price. Richmond, Killarney, Kaiserin and Perle were of better quality and in good demand while prices held fairly firm.

Carnations are in great profusion and almost uniformly of good quality but the supply has been so far in excess of the demand that it has been almost a case of "make your own prices." Early in the week one commission house got rid of a large surplus at five cents a bunch but a conservative estimate of the market value is about 50 cents per 100 in 1,000 lots. Even at this price the retailers are not over anxious to purchase and the departed street fakir is missed as an outlet.

PEONIES AND SWEET PEAS.

Peonies, peonies everywhere; this was the condition which prevailed on election day until four o'clock in the afternoon. All sorts and conditions there were at prices ranging all the way from five to 75 cents a dozen. White had the best call. Sweet peas are plentiful, the Spencer type predominating, and are of uniformly good quality though there have been several complaints as to their shipping quality, which may in a measure be accounted for by the hot weather the first part of the week.

JUNE WEDDINGS.

June weddings, as usual, are responsible for a number of large shipments, and almost every order contains lily of the valley, smilax and asparagus. There is quite a demand for outdoor flowers and the supply is adequate. Easter lilies are also moving satisfactorily.

THE FLORISTS' CLUB.

There were 21 members present at the meeting of the Florists' Club on the evening of June 4 at the Union restaurant with genial President Asmus in the chair. After the reading of the minutes by Secretary L. H. Winterson two new names were proposed for active membership: M. D. Neely, 144 Milwaukee avenue, and F. C. Morris of Hinsdale, Ill. The session then settled down to the business of the evening, which was the third reading, and final action on the proposed new by-laws. Chairman A. T. Hey read these and after some minor amendments they were unanimously adopted. The most radical changes in the new rules are the combining of the offices of recording and financial secretaries into the one office of secretary, and making the board of trustees three in number instead of five. Accordingly nominations were in order for these offices. For secretary L. H. Winterson and Frank Johnson were placed in nomination and for trustees the present five, including Leonard Kill, H. N. Bruns, J. F. Klimmer, August Poehlmann and Charles Fiske, together with F. F. Benthey and E. C. Amling, were nominated. The matter of the annual florists' picnic was referred to the good of the club committee, which was to work in conjunction with the sports and pastimes committee. This picnic committee was authorized to appoint such other members as should be deemed necessary.

NOTES.

George Sykes, local manager for the Lord & Burnham Co., has just returned from a brief visit to Detroit, where he obtained the contract from the city for a propagating house to be erected in Belle Isle park. Mr. Sykes gives an interesting account of his recent trip to New York where he closed a large contract with J. B. Duke, the tobacco magnate, a full report of which will be found in the Allied Trade notes on page 1050 of this issue.

J. E. Watts and wife of Meridian, Miss., were in the city this week and were much impressed with this market. Mrs. Watts says that trade with them has been very good and the only fault she has to find is that they are so far away from the Chicago market that the flowers do not always reach them in as good condition as they would like.

Bob Northam of George Reinberg's left on Wednesday for Iron River where he will put in two weeks dallying with the festive trout. Bob knows all the best streams in the Iron River country, having spent 15 years of his life there before becoming identified with the flower business.

Joe Foerster of the J. B. Deamud Co. is up to his old tricks again. In prize competition at the Mountain alleys last week he walked away with nearly all the prizes. The Florists' Club needs him in its lineup and with John Zech to lead off and Joe as anchor would make a clean sweep.

The business outlook is so good to Peter Reinberg that he has decided, according to Leonard Kill, to build four additional houses, each 27½x300 feet, making eight in all. This will add 66,000 square feet of glass to the range, which is already the largest in this country.

In the prize bowling competition on Friday night Ed Schultz, with a large handicap, carried off first prize. John Zech, the only scratch man, took second money, while Henry Kruchten finished in third place.

Bassett & Washburn are receiving a great many of the large southern ferns but claim that the excessive transportation charges take all of the profit out of the business.

The Geo. Wittbold Co. has just received a large shipment of bay trees and kentias. Louis Wittbold reports that the outdoor trade is keeping all hands very busy.

Harry Seeley of the A. L. Randall Co., joined the noble army of Benedicts June 2. Miss Evelyn Long of Wilmette was the fair bride. They have our best wishes.

A. Rennie, local representative of A. H. Hews & Co., was the guest of John Degnan of Winterson's Seed Store at the bowlingfest on June 4 at Bensingers.

W. A. Burpee, of Philadelphia, with his son David, made a tour of the city parks on Wednesday as a guest of Carl Cropp, secretary of Vaughan's Seed Store.

Bedding trade is lively, according to Louis Winterson. There is no surplus of geraniums in bloom and the new King Humbert canna is scarce.

A. Lange had a record breaking day on Monday when he made up 11 shower bouquets and 41 bridal bouquets.

C. M. Dickinson is building a new home at Park Ridge.

Visitors—B. F. Vandervate, Galena; Mrs. Frances Spickerman of the Sandwich Greenhouse, Sandwich; F. L. Tornquist, Benton Harbor, Mich.; J. E. Watts and wife, Meridian, Miss.; A. C. Rott, Joliet.

Long Distance Phone, Central **6004.** **Catalogue Free.**

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

E. C. AMLING

THE LARGEST, BEST EQUIPPED, MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Edwardsville, Ill.

PLANTS FOR SCHOOL PUPILS.

Under direction of the Civic League and through the generosity of J. F. Ammann every pupil in the public schools in this city was presented with a rose plant. The plants were given the children with the object of forwarding the Civic League movement. There are over 1,000 pupils in the schools and the present is an expensive one to the generous donor. The children were requested to plant and care for the roses during the vacation months. The plants are of the variety Mrs. Potter Palmer. Mr. Ammann has a new automobile.

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in Peonies, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

"THE BUSIEST HOUSE IN CHICAGO"

We have the best **PEONIES** in the market. Ask for them.

J. B. DEAMUD CO.

51 Wabash Ave., CHICAGO

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

KENNICOTT BROS. COMPANY,

Wholesale Cut Flowers.

48-50 Wabash Ave.,

CHICAGO.

L. D. Phone, Central 466.

We will have anything in the line of

Cut Flowers and Greens

that you may want if anybody has it, at Chicago market prices on day of shipment.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in

Cut Flowers

All telegraph and telephone orders ——given prompt attention.——

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

Wholesale Flower Markets

CHICAGO, June 9.

Roses, Beauty, extra select		3 00@4 00
" " 30 in		2 50@3 00
" " 24 in		2 00@2 50
" " 20 in		1 50
" " 15 in		1 25
" " 12 in		1 00
" " Short		75
	Per 100	
" Bride, Bridesmaid, select	4 00@ 6 00	
" " " medium	3 00@ 4 00	
" Chatenay, Sunrise	3 00@ 6 00	
" Golden Gate, Uncle John	3 00@ 6 00	
" Kaiserin	3 00@ 8 00	
" Kate Moulton	3 00@ 8 00	
" Killarney, select	6 00@ 8 00	
" " medium	4 00@ 5 00	
" Mrs. Marshall Field	4 00@ 6 00	
" Mrs. Potter Palmer	4 00@ 8 00	
" Perle	6 00@ 8 00	
" Richmond, extra select	6 00@ 8 00	
" " medium	4 00@ 5 00	
Carnations, select, fancy		1 50
" common		1 00
Callas ..... per doz.	1 00@1 50	
Cattleyas ..... per doz.	6 00	
Daisies	75@ 1 00	
Forget-me-nots		1 00
Lilium Harrisii per doz.	1 50@2 00	15 00
Lily of the Valley	3 00@ 4 00	
Peonies, select	3 00@ 6 00	
Snapdragon, per bunch	1 00@1 50	
Sweet Peas	75@ 1 00	
Tulips	2 00@ 4 00	
Adiantum	75@ 1 00	
Asparagus Plum, strings..each	50@ 60	
" sprays	2 00@ 4 00	
" Sprengeri	2 00@ 3 00	
Ferns ..... per 1000	3 00@4 00	
Galax, green..per 100	15; per 1000	1 00
" bronze, per 100	15; per 1000	1 00
Leucothoe sprays	75@ 1 00	
Smilax strings ..... per doz.	1 50	

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Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

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Quality Counts..

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NOTICE!

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Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

*New York.

TRADE NOT ENCOURAGING.

The business of the past week was not very encouraging. Though the marriage license bureau sends out rosy reports of prospective business, it does not appear that the wave of matrimony has yet thrown up any profitable salvage to the florists from their own viewpoint; the majority of people who get married in these later days have the job done as cheaply as possible. The weather throughout the week was dull and gloomy with much rain, and not at all conducive to good business. American Beauty roses have held up very well, but other stocks have steadily declined, so far as prices are concerned. The weather has not been particularly favorable for a great influx of flowers, but there has been more than enough to supply all demands. Peonies are now coming in large quantities, but, excepting Festiva Maxima and other varieties of kindred worth, they are cheap and slow. Tea roses can be bought for almost any price, say $1 per 100, up or down, generally down. To summarize the situation, everything is cheap and slow and we seem to be at the begining of the end of the season.

NOTES.

On a recent visit to the John Scott estate we found much activity in the line of cannas, coleus and other bedding plants, for which this range has in the past been noted, as well as for its palms, ferns and gardenias. The range is now managed by David McKenzie, who was foreman previous to the death of Mr. Scott. George Scott, a brother of the late proprietor, is also an active man in the business. Mrs. John Scott and her baby daughter are doing well.

The Lord & Burnham Co. has just closed a contract with J. B. Duke, a captain of the tobacco industry, for new greenhouses, the approximate cost of which will be $70,000. This will be the second large range which this company has erected for Mr. Duke and when completed his estate at Somerville, N. J., will have more glass than any other private place in America.

The next monthly meeting of the Florists' Club will be held on Monday night, June 14. We note the announcement in a contemporary that it will be held on June 12, but at this writing Secretary Young has not advised us of any change of date. There will be an exhibition of peonies and outdoor roses.

There are many expressions of sympathy for A. Le Moult, the well-known retailer. Death, the grim reaper, has taken from him a daughter, a young woman of many fine qualities of mind and heart. Sympathy is also extended to Joseph S. Fenrich and wife, Mrs. Fenrich and Miss Le Moult being sisters.

Creditors of the various Fleischman companies, according to the New York Times, are by no means satisfied with Joseph Fleischman's assertion that the books relating to the Fleischman Baths are lost and purpose having all the directors of this concern examined.

Though it is the "good old summer time," Ford Bros. are receiving daily shipments of very fine Enchantress carnations from Henry Hession's Flatbush range.

*Remember the Florists' Club outing July 1. and make no arrangments that will interfere with your being present.

Horticultural Society of New York.

SUMMER EXHIBITION.

The summer exhibition of the above named society was held in the Museum building, Bronx Park, June 5-6. Much credit is due Secretary Geo. V. Nash for his untiring efforts to make the exhibition a success. The display of flowers of hardy and herbaceous plants was very fine and reflected much credit on the exhibitors. Noteworthy among these were Bobbink & Atkins, Rutherford, N. J.; F. R. Pierson, Tarrytown, N. Y.; George H. Peterson, Fair Lawn, N. J.; Blue Hills Nurseries, South Braintree, Mass.; and Palisades Nurseries, Sparkhill, N. Y. There were also a number of fine exhibits from private estates, noteworthy being those of E. H. Weatherbee, Mamaroneck, N. Y.; Theodore Havemeyer, Hempstead, N. Y., and Miss Potter, Ossining, N. Y.

The number of exhibitors of peonies was not as large as had been expected, and F. R. Pierson, of Tarrytown, N. Y., and Geo. H. Peterson of Fair Lawn, N. J., divided the honors in this class. In the exhibits of flowers of hardy herbaceous plants the Blue Hills Nurseries, South Braintree, Mass., made a fine exhibit, and staged it so that anybody could understand the botanical and common names of the plants. A printed card was placed with each variety giving all necessary information. We commend this to commercial exhibitors in general. If an exhibition is opened to the public, it is entitled to some benefit, a fact that is sometimes forgotten.

The special exhibits of orchids of Lager & Hurrell, Summit, N. J.; the Julius Roehrs Co., Rutherford, N. J., and Joseph A. Manda, West Orange, N. J., were all very fine. Two new varieties, exhibited by Manda, are particularly worthy of note. These were a new variety of Cattleya Mossiæ and Lælio-Cattleya Dominiana Splendens, neither of which were ever before exhibited. They are remarkably beautiful flowers and are sure to attract the attention of orchid fanciers. In addition to what has already been mentioned, the Blue Hills Nurseries had an exhibit of 96 species and varieties of hardy conifers. In the peony collections of Pierson and Peterson, the following varieties were noteworthy: Festiva Maxima, Marie Stuart, Achille, Gen. Bertrand, Mme. Breon and Candidissima. An attractive feature was the Scotch eglantine, exhibited by James Wood, Mt. Kisco, N. Y. Other interesting and attractive features were the irises in variety of Bobbink & Atkins and E. H. Weatherbee. The awards were as follows:

Peonies.

Three white varieties, six flowers of each, F. R. Pierson, first.

Three light pink varieties, six flowers of each, Geo. H. Peterson, first.

Three rose varieties, six flowers of each, Geo. H. Peterson, first.

Three crimson varieties, six flowers of each, F. R. Pierson, first.

Collection of singles, three flowers of each kind, F. R. Pierson, first.

Largest and finest collection, not less than six flowers of each variety, F. R. Pierson, first; Geo. H. Peterson, second.

Miscellaneous.

Flowering shrubs and trees, E. H. Weatherbee, first; F. R. Pierson, second.

Hardy rhododendrons and azaleas, or either, F. R. Pierson, first; Theo. Havemeyer, second.

Collection of hardy herbaceous plants, Blue Hills Nurseries, first; Palisades Nurseries, second.

Collection of irises, Theo. Havemeyer, first; Bobbink & Atkins, second.

Special Prizes.

Lager & Hurrell, orchids.....$10

Julius Roehrs Co., orchids..... 5

Miss Pottes roses, also cultural certificate for Gladiolus Peach Blossom... 3

Joseph A. Manda, certificate for Cattleya Mossiæ and bronze medal for Lælio-Cattleya Dominiana Splendens.

Julius Roehrs Co., certificate for Cattleya gigas Sanderiana.

Buffalo.

MEMORIAL DAY TRADE GOOD.

The weather of the past week has been ideal. Trade was all that could be expected for Memorial day coming as it did on Sunday and Monday being observed as a holiday gave us three days' business. The sale of plants at greenhouses was good, also bunches of cut flowers. The usual number of express wagons were well filled by donations from the public schools and other friends of the G. A. R. Weddings were plentiful last week but not very large. S. A. Anderson had the bouquets for one on May 31 which was very elaborate, lily of the valley, orchids, Killarney roses and white lilac being the flowers used. Greenhouse men are now working overtime with the filling of veranda boxes, lawn vases and other garden work. The unfavorable weather up to May 29 retarded the work and now every one wants their work done, consequently it is hard to get an audience with anyone in a greenhouse. Outdoor stock has been short in supply so far but indoor flowers with the exception of Bride and Bridesmaid roses are still good. Sweet peas are showing the effects of warm weather.

NOTES.

Jos. Streit, foreman for S. A. Anderson at his greenhouses, and wife, sail July 3 for two months in Germany. S. A. Anderson and family go to Wanakah on the lake shore for the summer. W. J. Palmer will likely summer at Lancaster while J. H. Rebstock will be found at Crystal Beach. W. F. Kasting and family will be in Erie, Pa. The Scott boys will in all probability divide their time between Corfu and this city. Jerry Brookins and wife of Orchard Park are visiting in Pittsburg, Pa.

One of S. A. Anderson's horses that was delivering plants becamse unmanageable on Saturday and attempted to run away. Wm. Bartlett, one of the employes, in jumping from the wagon broke his leg in two places and is now in the hospital. From the reports he was fortunate in not being killed.

Everyone being busy last week President Slattery did not call the regular meeting of the Florists' Club, so look out for a good one next month when picnic arrangements will be made.

Charles Keitsch of Main street and Earl place is very busy, dividing his time between greenhouse and store, but will be on hand for Cincinnati.

R. E. Boettger of Eggertsville is sending in a fine lot of Harrisii lilies which Kasting & Co. are handling.

J. Benson Stafford has an automobile for delivery purposes.

Visitors: E. A. Penn, Summerdale.

BISON.

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Adiantum Croweanum sold here exclusively.

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Wholesale Flower Markets

NEW YORK, June 9.

	Per 100
Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " extra	8 00@10 00
" " No. 1	3 00@ 4 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	4 00@ 5 00
extra and fancy	1 50@ 2 00
No. 1 and No. 2	50@ 1 00
" Killarney special	4 00@ 6 00
extra and fancy	1 50@ 2 00
" Richmond	50@ 6 00
Carnations fancy and special	3 00
" common	50@ 2 00
Callas, per doz.	40@ 50
Cattleyas	20 00@35 00
Daisies	50@ 1 00
Gladiolus	5 00@ 6 00
Gardenias, per doz.	1 00@ 2 00
Lilium Longiflorum	3 00@ 4 00
Lily of the Valley	1 00@ 2 50
Mignonette, per doz.	20@ 50
Peonies	1 00@ 6 00
Snapdragons (Antirrhinum) doz.	15@ 35
Stocks (Double white) per bunch	15@ 25
Sweet Peas...per doz bunches	20@ 75
Asparagus.....doz. bunches	1 50@ 2 50
Smilax	10 00@15 00

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

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Opposite N. Y. Cut Flower Co.

Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

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American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephones: 2200 and 2201 Madison Square.

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42 West 28th St., New York
To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.

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Wholesale Florist,
444 Sixth Avenue, cor. 27th St.. NEW YORK.
Consignments Solicited
Telephone 7062 Madison Square.

Philadelphia.

CAR STRIKE HINDERS TRADE.

This city last week was in the throes of a street car strike which interfered considerably with business, as while there was about 20 per cent of the cars moving through the day the service was entirely shut down after 7 p. m. at night. We are glad to say that the trouble is now over and cars are running regularly. There was some demand for commencements and weddings but outside of this and the regular funeral demand there was little doing. Flowers of all kinds in season are very plentiful and cheap, in fact almost everything is at buyers' prices. Eastern roses, American Beauty, Kaiserin, Carnot and Killarney are seen in good shape and bring about 25 per cent more than the local stock, which is deteriorating fast on account of the hot weather. Outdoor sweet peas now control the market; they are fine at low prices and sell as well as anything. Peonies came on with a rush and the market has been flooded with flowers that graded high but on account of the light demand brought little money. Carnations are hard to move and prices ruled low. Lily of the valley moves fairly well and the quality is fine. Easter lilies are also placed in competition with the already overstocked market and find some few buyers. The quality of the blooms is A1. There is a wealth of cattleyas, all the growers seeming to have crops in; the flowers are wonderfully large and beautiful; $5 per dozen is the asking price but 100 choice blooms can be bought for $25.

FLORISTS' CLUB MEETING.

The June meeting of the Florists' Club was much interfered with by the street car strike, no cars running after 7 p. m., keeping the members home. Edwin Lonsdale's paper on the "Decoration of the Lawn" will be read by him at the July meeting. The trustees and council of the Pennsylvania Horticultural Society at a meeting last week determined to bring the matter of the sale of the hall and grounds before the society at its July meeting. The hall as a property is not paying and interest money is running behind; in fact, there is not enough left after expenses of maintenance are provided for, to pay the taxes, and the trustees seeing no light ahead now want permission to accept an offer of near $600,000 which it is understood has been made for the property. The ground with the old building on it was given to the society by Miss Schaffer as a memorial to her brother, who had been for some years its president. It was without incumbrance and was to be used for its exhibitions and by letting out for endowments and like purposes it was hoped considerable funds would be provided for use of the society. Unfortunately the building was soon destroyed by fire. As the society could not mortgage the property and had only about $25,000 insurance money they were in a dilemma as to how to erect a new hall. Finally a syndicate leased the ground for 30 years and erected the present building, the society to have free use of same whenever required for its meetings and exhibitions in consideration of which it turned into the building fund the $25,000 insurance money. At the termination of the lease the building was to revert to the society as it was expected that by this time the bonds which were to be paid off from time to time would all have been retired. The situation is now, however, that after some 13 years none of the bonds have been paid off, the enterprise is not a paying venture, the syndicate want the property sold and the bonds redeemed out of the proceeds. This is all right from their standpoint but will not the gift of Miss Schaffer, the memorial to her brother, be endangered? Whatever this ground was worth then and what it is worth now should not be jeopardized in the least degree. The syndicate went into a business venture and cannot expect the society to be responsible in any way if its enterprise is not successful. The members of the society should immediately get together and see to it that, if any change is made, their rights are protected to the fullest extent.

NOTES.

A fire on June 1 in the building in which the store of H. H. Battles is located caused a hasty removal of all the goods into his other store, the Century Flower Shop, where business was carried on for the day. The damage was principally from water, which injured the plastering of the room and the woodwork.

The Leo Niessen Co. reports a good business for the season as at the low prices the tendency is to move stock in large lots. American Beauty roses, cattleyas and lily of the valley are seen in quantities.

Wm. McKissick & Bros. are receiving fine American Beauty, Carnots and Kaiserin roses, eastern stock, for which they have quite a demand.

K.

Pittsburg.

TRADE QUIET.

The market has just about settled down again in the same old rut of a few weeks ago, quantities of flowers and very little business. Quite a number of the retailers have been kept very busy the past week with weddings that help break the monotony somewhat. One can see some very fine stock in the commission houses in the way of American Beauty roses, gladioli, lily of the valley and peonies.

NOTES.

Joseph Hanky of Charleroi underwent a very serious operation, but is getting along nicely.

J. B. Murdock & Co. are handling some fine American Beauty roses.

K. C. Drewe, Braddock, reports business very good.

Visitor: Mrs. Joseph Hanky, Charleroi.

J.

Cleveland.

GOOD DECORATION DAY BUSINESS.

The ideal weather and the absence of an overabundance of outdoor flowers made this the best Decoration day in years, cut flowers and plants selling about equally well. While carnations and roses were abundant, there were not enough to meet the demand and many of the orders could not be filled in full. Peonies, as previously predicted, were rather a scarce article, although a few red and pink were in, and most of these were buds. Lilac and bridal wreath were good sellers and the quality was never better at 50 cents per bunch. Candytuft, snowballs, daisies and irises were plentiful. American Beauty, Richmond, and Killarney roses cleaned up as did everything in carnations at fair prices. Many of the retailers whose stores are located some distance from the cemeteries, got a permit from the city to sell cut flowers and plants from wagons at the gates of some of the cemeteries, but the business done did not pay for the trouble. On the Tuesday following Decoration day it rained, but two or three big society weddings caused quite a demand. Later the stock piled up and was sold out at ridiculously low prices. The scarcity of fern is causing the price to soar, $2.50 per 1,000 being asked for the better grade. Commencement week and the usual number of June weddings is about all that we have to look forward to now for a time. At the Industrial exhibition, to be held here June 7 to 19, there will be a floral exhibit in the main building, which ought to be worth seeing. The sales for the month of May exceeded the total of April by a considerable margin.

RECENT WEDDINGS.

Perhaps the most notable society event of the year was the Smith-Gowan wedding June 2. The floral decorations of both St. Paul's church and the home were extremely beautiful. The altar and chancel of the church were banked high with palms and ferns, smilax and white peonies. The pillars were wound with mountain laurel caught with bouquets of snowball. The central chandelier was arranged in the shape of a huge wedding bell of bridal-wreath and snowball. The bridesmaids and maids of honor carried shower bouquets of pink roses tied with a pink lace scarf. The bride wore a half wreath of orange blossom, and carried a shower bouquet of lily of the valley. Supper was served on the lawn in tents trimmed with garlands of mountain laurel and rose pink peonies. The centerpieces on the table were white baskets filled with Killarney roses. The centerpiece on the bride's table was five large fancy pink hats trimmed with chiffon and ribbon and filled with Mrs. Jardine roses. Smith and Fetters did all the decorative work, which received much well merited praise. This firm also had a very appropriate window display for Memorial day, consisting of a large American flag, and a stack of arms, with flower trimmings and one large wreath.

The Baker-Clark wedding, Lakewood, was a large affair, American beauty roses, peonies and snowballs being used in the parlor, pink peonies, palms, ferns and apple blossoms in the music room. Smilax and apple blossom formed the canopy, the bride's table had a centerpiece of white iris and Killarney roses. Mrs. Brown had charge of the decorations, which were very artistic.

NOTES.

Miss Symes, formerly with Jos. Eadie Co., will be at the Industrial exhibition in charge of the flower show.

Casper Aul is going to retire about July 1 to go on a farm and raise chickens and mushrooms.

Mrs. Welty had the decorations for the Dean-Tileen wedding, Cleveland Heights.

Visitors: L. L. Lamborn, Canton; George Bowditch, Alliance.

B.

Massachusetts Horticultural Society.

RHODODENDRON EXHIBITION, JUNE 5 AND 6.

The following are the awards for plants and flowers: Rhododendrons, largest and best collection, not less than 15 distinct varieties, six trusses of each, from plants that have been grown in the open in Massachusetts for at least three years: Walter Hunnewell, first. Hardy azaleas, 12 varieties, six trusses each: Wm. Whitman, first.

Gratuities: Wm. Whitman, display of Chinese peonies, azaleas, and German iris; T. C. Thurlow & Co., display of iris and peonies; Mrs. Frederick Ayer, fuchsias, tree fern and iris; Mrs. J. L. Gardner, display of gloxinias; Dr. C. G. Weld, specimen hydrangeas; Bellevue Greenhouses, display of hardy plants in pots; Max Handler, display of hardy flowers; Mrs. E. M. Gill, display of cut flowers.

Bronze medals: Dr. C. G. Weld for Cypripedium Lawrencianum; Wm. Whitman, display of German iris. Cultural certificate: Wm. C. Rust, specimen hydrangeas. Honorable mention: Francis Skinner, collection of rhododendrons; R. & J. Farquhar & Co., display of irises and Azalea mollis; F. J. Rea, Phlox divaricata, var. Laphami. Vote of thanks: R. & J. Farquhar & Co., display of Araucaria excelsa.

Field-grown Carnation Plants

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AMERICAN BEAUTIES

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American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

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Wholesale Flower Markets

PHILADELPHIA, June 9.

	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	3 00@ 4 00
Cattleyas	50 00@60 00
Gardenias	20@ 35
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Peonies	4 00@15 00
Sweet Peas	75@ 1 00
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, June 9.

	Per 100
Roses, Beauty, specials	15 00@25 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	1 00@ 6 00
" Chatenay	1 00@ 6 00
" Killarney	1 00@ 6 00
" Richmond	1 00@ 6 00
Carnations	1 00@ 2 00
Iris	1 00@ 3 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	2 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, June 9.

	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—

Carnations, Roses, Beauties,

All Seasonable Flowers.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

Philadelphia.

CARNATIONS ARE ABUNDANT.

Business throughout the city and suburbs relaxed immediately on the opening day of the week which on account of the holiday did not really begin until Tuesday. The public was pretty well frightened by Memorial day prices and was noticeably timid. Consequently there was very little in the way of animation shown and the week ended in another dismal day of heavy rain and disappointment. The most striking feature of the market is the abundance of carnations coming in. The best are bringing only $2 per 100 and quantities of second grade goods are available at $1. Very fine lines of Killarney and American Beauty roses are offered while Richmond is showing the effects of the heat and Kaiserin has assumed the leadership. The market is filled with odd assortments of a varied type embracing all the leading summer novelties. Local peonies are on sale but the crop is not yet extensive enough to be a factor.

NOTES.

Pierce Bros. are in the market for almost everything but roses and the host of admirers of this firm have often wondered why this field has never been ventured. The several motors employed in the delivery service are always on the road, in this way consigning directly to dealers goods that otherwise would be marketed in bulk at the wholesale houses.

W. H. Elliott is now permanently installed in his new salesroom on Park street and from this center the immense stock of Memorial day goods was distributed. Several new methods of distribution have been adopted, each one augmenting the service.

Tom Pegler is handling an enviable collection of summer favorites; among the best stock is a splendid variety of gladioli and his lavender gillyflower is one of the most admired on the market.

E. E. Fletcher, the genial sales agent of the Music Hall Market, was stricken with rheumatism while on a visit to friends in Winthrop and has been confined indoors for the past 10 days.

William Sim has retired from the floral world for the season, having exhausted his supply of sweet peas.

B.

Worcester, Mass.

Business the past Memorial day was the best in the history of this city. Practically all the store help worked Friday, Saturday and Sunday nights before Monday, May 31, and were very tired by noon on Monday; everything sold well, especially bedding plants, anything with a flower being bought on sight, while S. A. Nutt geraniums were almost at a premium. There was a good supply of cut flowers of all kinds of excellent quality owing to the cool weather, which kept back the lilacs, exochorda and other outdoor flowers, these helping considerably in the cheap bouquet work, etc. Rambler roses sold well and H. F. A. Lange had quite a lot just right, Lady Gay, Dorothy Perkins and Baby Dorothy taking the lead. H. F. Littlefield and M. Aitkin had a nice lot of hydrangeas.

Fred Braun, formerly foreman for H. F. Littlefield, is working with his brother at Stafford Springs, Conn.

R.

The Way of It.

"Your gardener's work just now is a perfect bull."

"What do you mean?"

"He is making such headway with that footpath."—Baltimore American.

CUT FLOWERS OR DESIGNS

will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

Kansas City, Mo.

Samuel Murray

.....FLORIST.....

1017 Broaway Coates House Conservatory

Both Phones 2670 Main.

Write, Telephone or Telegraph, All orders given prompt attention.

St. Louis, Mo,

Write, Wire or Phone Your Orders to

YOUNGS

1406 Olive Street,

Regular discount allowed on all orders, either Plants or Cut Flowers.

Phones Bell, Main 2306, Kinloch, Central 4981

New Orleans

CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** 838 CANAL ST.

Indianapolis, Ind.

Bertermann Bros. Co.

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.....241 Massachusetts Ave.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS

Successor to Chas. W. Reimers,

.....329 Fourth Avenue.

Louisville, Ky.

JACOB SCHULZ,

550 So. Fourth Avenue.

Colorado Springs, Colo.

FRANK F. CRUMP,

Wholesale and Retail. Florist.

Anderson, S. C.

THE ANDERSON FLORAL CO.

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Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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609-611 MADISON AVE.

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Hess & Swoboda,

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Denver, Colo.

The Park ....Floral Co.

J. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable. Cable address "Daniels, Denver"

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Robert Kift,

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Prompt and Careful Attention given to all Mail and Telegraph orders.

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Palmer & Son, 304 Main St

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Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

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Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dis. Bell Phone

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DIRECTORY

Contains the names and addresses of all the Florists, Seedsmen and Nurserymen in the United States and Canada. Price $3.00.

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CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

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Auditorium Annex.
Mail, Telegraph or Telephone Orders Filled Promptly in Best Style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

Geo. M. Kellogg Flower and Plant Co.,
906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen
— FLORIST —
Special Attention to Telegraph or Telephone Orders. **Phone 1912.**

Atlanta, Ga.

Atlanta Floral Co.
41 Peachtree Street.

Hoffman FLORIST
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BOSTON.

Washington, D. C.

Geo. C. Shaffer,
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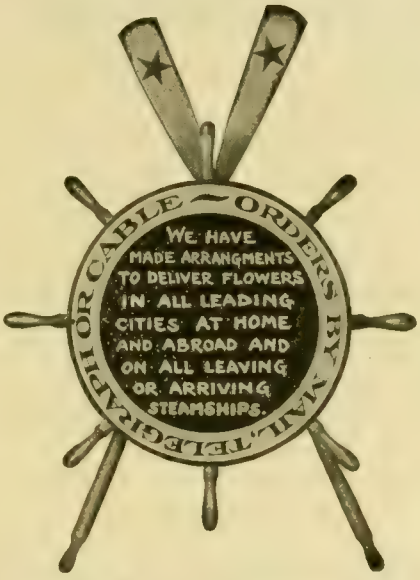
Phone 2416 Main 14th & Eye Sts., N. W
Write, Telegraph or Telephone.



A sign like this in your window will draw good business now.

Steamship Sailings.
Week Ending June 19.

June 15, Kronprinzessen Cecilie, N. Y.-B'mn
June 15, Kaiser Wilhelm II, Bremen-N. Y.
June 15, Oscar II, Copenhagen-New York.
June 15, Lituania, Libau-New York.
June 15, Saxonia, Boston-Liverpool.
June 15, Ivernia, Liverpool-Boston.
June 15, Potsdam, New York-Rotterdam.
June 16, Teutonic, New York-Southampton.
June 16, Majestic, Southampton-New York.
June 16, Bluecher, New York-Hamburg.
June 16, Rhein, Baltimore-Bremen.
June 16, Oceania, New York-Trieste.
June 17, Koenigin Luise, Genoa-New York.
June 17, Friedrich der Grosse, N. Y.-B'mn.
June 17, Main, Bremen-Baltimore.
June 17, C. F. Tietgen, N. Y.-Copenhagen.
June 17, Corsican, Liverpool-Montreal.
June 17, Ultonia, New York-Trieste.
June 17, La Savoie, New York-Havre.
June 17, Menominee, Antwerp-Boston.
June 17, Megantic, Liverpool-Montreal.
June 18, Celtic, Liverpool-New York.
June 18, Em. of Britain, Montreal-Lv'pool.
June 18, Em. of Ireland, Lv'pool-Montreal.
June 18, Tunisian, Montreal-Liverpool.
June 19, Sicilian, Montreal-London.
June 19, Furnessia, New York-Glasgow.
June 19, California, Glasgow-New York.
June 19, New York, N. Y.-Southampton.
June 19, Philadelphia, Southampton-N. Y.
June 19, Friesland, Philadelphia-Liverpool.
June 19, Carmania, New York-Liverpool.
June 19, Lusitania, Liverpool-New York.
June 19, Lapland, New York-Antwerp.
June 19, Zeeland, Antwerp-New York.
June 19, Baltic, New York-Liverpool.
June 19, Laurentic, Montreal-Liverpool.
June 19, Amerika, New York-Hamburg.
June 19, Ryndam, Rotterdam-New York.
June 19, Duca de Genova, Naples-N. Y.
June 19, Koenig Albert, New York-Genoa.
June 19, Barbaross, New York-Bremen.
June 19, Bremen, Bremen-New York.
June 19, Estonia, New York-Libau.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.

TELEGRAPH Orders forwarded to any part of the United States, Canada and all principal cities in Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Los Angeles, Calif.

J. W. Wolfskill,
FLORIST.
Telegraph Orders A Specialty. **218 W. 4th St.**

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L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

San Francisco, Calif.

J. B. BOLAND
Successor to Sievers and Boland,
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in **Wisconsin.**

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1909.

DUNKIRK N. Y.—The Lake Shore Seed Co.'s plant and stock was damaged by fire to the extent of $4,000 May 25.

SANTA CLARA, CALIF.—W. J. Fosgate is remodeling a fine residence which he recently acquired. Sweet peas will be at their best June 20 to 25.

SAN JOSE, CALIF.—Lisle Morrison, late with the seed division of the Department of Agriculture, Washington, D. C., joined the working force of the Braslan Seed Growers Co. on June 1.

THE Wabash Railroad Co. at Chicago calls the attention of all seedsmen west of Niagara Falls to the fact that there is a round trip rate from Chicago to New York and return for $25, good for 30 days, with ample stop over at Niagara Falls.

PARIS, KY., March 27.—Contrary to their annual custom Bourbon county farmers are receiving bids for the bluegrass seed crop. Seed dealers are actively making contracts for stripping rights throughout the country. The yield of seed this season will be but a fair one.—Findlay, O., Republican.

CLEAR LAKE, IA.—Twelve acres of land was set apart at the county farm, near here, this spring, as an experiment station for corn growing, and J. D. Hill, of Ames, is here to take care of the crop. A variety of tests will be made, which will be studied at the coming fall corn judging contest.

J. W. E. TRACY of the Department of Agriculture is now in California. A. M. Kirby of Peter Henderson & Co., New York, is expected there in the near future. Messrs. Burpee and Earl of the W. Atlee Burpee Co., together with Leonard H. Vaughan, of Vaughan's Seed Store, left Chicago June 9, direct for San Francisco.

FORCED TULIP BULBS, after they have served their purpose once, are bought up by some Holland growers and shipped back to Holland to be grown on for a time and again offered as forcing stock, which is very inferior. This practice has assumed extensive proportions in Europe lately, probably due to the scarcity of certain high priced varieties.

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

CHICAGO.—Onion sets are looking fairly well on high ground; some growers whose fields are subject to injury from heavy rainfalls are not doing so well.—Contract prices on the board of trade June 9 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.—Visitor: Chas. P. Braslan, San Jose, Calif.

Connecticut Conditions.

President Woodruff of the American Seed Trade Association writes as follows May 22: "A very cold, wet May up to this writing, with vegetation of all kinds unusually backward fairly describes the local situation. About the usual acreage of onion, beet, kale and parsnip have started off very nicely; roots of the biennial crops, as a rule, kept over splendidly, and there is still plenty of time for crops to catch up and make an abundant harvest. The wet May that makes the barn full of hay certainly ought to work to the advantage of the general farmer, and meadows and grain crops look unusually fine.

Corn planting about finished, and about the same acreage of sweet corn has been put out as usual; in fact, little change from the average acreage of the past five years; an abundant harvest is sorely needed to supply the ever increasing demand for high-grade seeds, and growers in Connecticut section, while their product is limited, claim to and rightfully so, I believe, produce some pedigree stocks that are eagerly sought for at good prices by the trade. There is not a seedsman in this state, I believe, but whose warehouse is cleaned up better than it has been for years.

Another Connecticut View.

Milford, Conn., May 21.—Most of our crops grown from bulbs, such as onion, beet, turnip, etc., have not been adversely affected by the weather conditions because, although it has been very cold and wet, these crops are able to stand that sort of weather at the outset and we should say that they have a very fair start up to the present time. It is difficult to say what sort of a stand of sweet corn we will get. It is, of course, only just being planted and the conditions are just about as unfavorable for its growth as they could be. It will take another 10 days to tell the story, however, on this item.

The seeding of peas has been retarded in Michigan and Wisconsin by the cold weather and the water soaked condition of the ground, particularly of all heavy land. We presume we ought to get accustomed to backward seasons, but it seems as though the conditions affecting the crop of peas at the outset might prove very damaging, particularly to the sweet wrinkled sorts which are not likely to endure such extreme hardship. The beans, of course, are only just moving out into farmers' hands and so nothing can be said in regard to that crop.

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS MICH.

Ohio Seed Crops.

G. S. Clark, Wakeman, writes: "Regarding the crop conditions here, May was a very cold and backward month, but most of our growers have their corn all planted, and some of it is being cultivated. We have a good to fair stand. The past week has been very favorable to the growth of same, and the germination of all seed corn this past season was so nearly perfect that we do not look for any replanting. We have booked more contract orders than ever before, and we have out the largest acreage that we have ever put out, and if we have a favorable season we will make full deliveries. We have been obliged to turn down some of the late orders, as they were received too late to get them covered by acreage."

The Tariff Bill.

Paragraph 262 of the pending tariff bill was agreed to in the senate, May 29 as follows:

> 262—Seeds—Castor beans or seeds, 25 cents per bushel of 50 pounds; flaxseed or linseed and other oil seeds not specially provided for in this section, 25 cents per bushel of 56 pounds; poppy seed, 15 cents per bushel; mushroom spawn and spinach seed, one cent per pound; beet, except sugar beet, carrot, corn salad, parsley, parsnip, radish, turnip and rutabaga seed, four cents per pound; cabbage, collard, kale and kohlrabi seed, eight cents per pound; egg plant and pepper seed, 20 cents per pound; seeds of all kinds not specially provided for in this section, 10 cents per pound.

Iowa Seed Dealers' Association.

SEED BILL UNPOPULAR.

That the general assembly of Iowa is as nearly capable of deciding whether the moon is inhabited, as it is to pass a law regulating the purity of farm seeds, was the statement made by E. E. Faville, editor of the Successful Farmer, at the annual convention of the Iowa Seed Dealers' Association June 1 at the Chamberlain hotel, Des Moines. The statement of Mr. Faville was made as a result of a general agreement among the 50 delegates, that the present law is class legislation, and that it should apply to the farmer as well as to the seed dealer. The law provides that seeds sold by dealers shall be up to a certain standard, and then proceeds to exempt the farmer from the penalty.

It was shown that the average farmer pays no attention to whether the seed offered for sale to the dealer is free from weed seed. He is allowed to sell seeds where he pleases, it was stated, and as a result, the fields of his neighbors are frequently sown with thistle, foxtail, and other noxious vegetable growths. Mr. Faville was called

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

upon to tell his experience on the subject. He said:

"In my opinion, the law regulating the purity of farm seeds should apply to the farmer as well as to the dealer. I am convinced that it is not altogether the latter's fault. While the members of the general assembly have opinions of their own on certain subjects, they know about as much on the seed question as one of those personages who inhabit the moon. The law certainly should be changed, and the farmer, as well as the dealer held responsible."

Practically all the speakers were agreed that the law should apply to farmers. It was shown in the 15 prosecutions began during the last year, all the seed was furnished by farmers. Dairy Commissioner H. R. Wright was one of the principal speakers at the session. He believed, he said, that while the law was not for the best interests of the dealer, it was a step in the right direction. The object of the law, he said, was to prevent farms from becoming peppered with weeds.

M. Crawford's Gladioli.

ED. AMERICAN FLORIST:—

May I request the privilege of correcting an inadvertence by Mr. Crawford in his letter on page 972 in your last issue in which he refers to the seed purchased from me in 1895. This seed was not the first hybridizing done by me, neither was it all produced by me the previous year. It was the surplus of the seed raised by me for sale, and should in no way be confused with a larger quantity of seed raised from special crosses, exclusively for my own planting, the product of which was introduced at the Pan American Exposition by myself, and the previous year at New York, before the Society of American Florists, by A. Cowee. I thank Mr. Crawford for the compliment of recognition.

H. H. GEOFF.

Sweet Pea Society Proposed.

A national sweet pea society for America is suggested by Harry A. Bunyard, who has issued a circular letter regarding this proposition. Full particulars can be had by addressing him at 342 W. Fourteenth street, New York.

Seedsmen's Convention—Niagara Falls—June 22-24, 1909.

The Seedsmen from Chicago and vicinity will use the Wabash road to their Convention at Niagara Falls, leaving Chicago on the 3 p. m. train, Monday, June 21st. Special sleeping car accommodations will be provided on this train for the use of delegates and their friends. The fare from Chicago to Niagara Falls and return is $19.50. Tickets will be good by lake in either direction between Detroit and Buffalo.

Those contemplating a trip to New York after the close of the Convention will be interested in knowing that the Wabash will sell round trip tickets from Chicago to New York and return at a rate of $25.50, good for thirty days, with the privilege of stopping ten days at Niagara Falls. This ticket is good for stopover also at Buffalo, Rochester, Syracuse, Utica, South Schenectady and Albany, N. Y. These tickets are also good without extra charge between Detroit and Buffalo by lake, in either direction, and from Albany to New York down the Hudson river. Apply to J. C. Vaughan, 84 Randolph street, or Wabash Ticket Office, 109 Adams street, for sleeping car accommodations.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

ASPARAGUS PLUMOSUS NANUS.

Northern greenhouse grown seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

—FOR SALE.—

Field Corn, Sweet Corn

and all kinds of **VINE SEEDS.**

Best varieties. Write for prices.

J. E. HIVELY, Winslow, Nebraska

Seeds for Florists

Send me your wants in Flower Seeds.

Bulbs for Florists.—Tuberous Begonias. Single and Double Tuberoses—splendid bulbs.

Vegetable Seeds for Forcing.

Let me quote and send catalogues.

STOKES' SEED STORE, 219 Market St. PHILADELPHIA.

Dearborn Engraving Co.

Designers, Printers & Engravers

1322 Wabash Ave., Chicago.

...Engravers for this Paper.

Mention the American Florist when writing

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors.....½-oz. 60c; oz. $4.00
Pure white.....½-oz. 75c; oz. 5.00

H. E. FISKE SEED CO.,

Faneuil Hall Square. BOSTON, MASS.

Mention the American Florist when writing

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

Reliable Seeds, SOW NOW

PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Telegraph Code

Am. Seed Trade Association

—$2.00—

In either stiff or flexible cover. Address order

AMERICAN FLORIST CO., CHICAGO.

Imports.

During the week ending June 5 imports were received at New York as follows:

Maltus & Ware, 39 cases, 12 tubs plants, 4 cases orchids.

P. Henderson & Co., 5 cases plants, 14 cases mushroom spawn.

Julius Roehrs Co., one case, 16 baskets plants.

McHutchison & Co., one case plants.

To others, 33 cases, 10 baskets plants, 10 tubs trees, 300 bags, 31 bbls. seeds, 15 cases orchids.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

TRUCK farmers in New Brunswick report heavy sales and good business, especially on potatoes and turnips. The shipments to New York and Boston have been exceptionally heavy this season.

BOSTON, MASS.—All hands will now turn their attention to the tomato crop, the marketing of which has already begun, and will last until well into the summer. Last year's record of 40 tons is to be eclipsed and the prospects are most promising.—B.

A GREENHOUSE as a windbreak sounds strange at first, but a correspondent in a contemporary points out how useful such a structure could be to the grower of truck produce in exposed positions, who could grow his plants inside it, the structure protecting his outdoor crops.

Asparagus.

Asparagus at present is enjoying a great popularity. Millions of plants have been distributed by seedsmen and nurserymen recently, and the call is for more. Comparing the markets now and say five years ago, the heavy plantings are commencing to show up, but we do not fear an over production of choice stock. Just now what concerns us most is proper cutting of the crop. There is a great diversity of opinion regarding the proper age when cutting shall commence. We believe the proper time to commence is as soon as salable shoots are produced. Then cut moderately and feed liberally. Thus it makes little difference whether a patch is two, three or four years old. In fact cutting age is more dependent upon care and feeding than upon number of years. We are now cutting good stock from a patch planted last year, using one year roots. Young patches, say two, three and four-year-olds, should be cut for a short time only, limiting the cutting season with the years. Thus we will cut our young patch about 30 days, next year we may increase to six weeks and, then to seven.

In this country the general practice is to cut clean, that is cut every shoot as it appears. Growers believe they get a better crop that way. In Europe the general practice is to allow the thinnest shoots to grow up in order to keep the plant active and healthy. This European practice is a good one for young patches. Whenever young shoots are allowed to grow up they use up the stored up energy of the root and cutting will soon be over. We know of some growers who cut fully 10 weeks. It is too long. Such treatment weakens the plants and will shorten the life of a patch. Seven to eight weeks is long enough. We have seen asparagus patches mowed down in August or September to subdue weeds, but this cannot be condemned too severely. The proper course is to keep a patch clean at all times; it will pay. MARKETMAN.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums, **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Plan for Vegetable Garden.

ED. AMERICAN FLORIST:—

Please give me a plan for laying out a vegetable garden 200x300 feet.

H. B.

Not knowing what kind of land "H. B." has, nor whether he wishes to grow for home use only, or sell the products, it is quite impossible to do this matter justice. Supose such a garden was for profit, it would be best to confine to one or two crops as a specialty. If for some institution its wants would have to be considered, which wants would likely mean a great variety; if for home use, each one seems to prefer some vegetables and care nothing for others. Further, much depends upon the available market. Sometimes one can buy certain things very reasonably and others are unobtainable. For instance, potatoes and sweet corn are very often excluded from some gardens. If the garden can be watered we must consider the means—if by hose, over head pipes, or flooding.

As a general proposition, a garden 200x300 feet should be laid out for horse work. Three hundred foot rows are too long where a variety of crops are grown. It is also difficult to water, and gather from long rows. For coarse crops, such as sweet corn, potatoes, tomatoes, etc., the 200-foot layout would work very well, but for small things it would work best to cut a driveway through the center, thus having 150 feet on each side, long enough for horse cultivation, yet short enough for easy manipulation. The lay of the land must be considered; if on a hillside, short rows in the direction of the slope will reduce damage from washing and give quick drainage.

Permanent crops, such as asparagus, rhubarb and horseradish, should be started on one side, commencing at the boundary line, say asparagus first, because it is most permanent. We must not overlook the nature of the soil. Permanent crops, being in the ground all winter, require perfect drainage. Such a piece of land may vary greatly. If any low and wet side or part, reserve it for celery. If sweet potatoes are to be grown select the warmest, sandiest part for them. The same is true for all vines, cucumbers, melons and squashes. For the coolest, moistest soil, or nearest to water, arrange for cabbage, cauliflower, lettuce, radish, and spinach.

For home use we cannot consume much at a time, hence plantings must be small and frequent. This brings us up to succession of crops. It is poor policy to plant the same thing twice or more in one spot, as it increases damage from disease and insects, besides inviting reduced yields. On this subject we may add that no related family should follow the same or the next season. Thus do not plant cabbage, cauliflower, kohlrabi, brussels sprouts or kale in succession; do not use tomatoes, potatoes or egg plants the same way; nor cucumbers, melons, squashes, pumpkins. To this we may add, always follow an underground crop with one of upper growth and vice versa.

Intercropping is not nearly as desirable as it seems. In most cases we lose on one what we gain on the other. However, some combinations are successful. Thus all vines do well among early potatoes; by the time the vines run the potatoes will be dug. Sweet corn may be planted between potatoes after the last working. Three-foot

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rows are most economical for horse cultivation. All potatoes, sweet corn, cabbage and cauliflower, should go into this section. Two and one-half-foot rows are the narrowest for horse work; will suit beans. Tomatoes require four feet and sometimes five. Melons and cucumbers five and six feet. Squash and pumpkins seven to eight feet. For wheel hoe crops 12 inches is best; this includes onion, beet, carrot, lettuce, parsnip, salsify, radish, turnip, etc. For best results there should be two hotbeds, and two cold frames, with top sash and shutters to provide the needed plants at all times. MARKETMAN.

Insects on Tomatoes.

ED. AMERICAN FLORIST:—

I have three houses in tomatoes which I have mulched with cow manure. Since so doing the brown manure fly has become a pest. The fly sets on the fruit and vines, which makes the fruit very unsatisfactory, in looks, for market. F.

The insect which "F." describes as the brown manure fly canot be identified without specimens. The insect fauna of the state of Washington is, moreover, quite different from that of the eastern states and the insects which occur in greenhouses in the Pacific coast region have never been as carefully studied as those of the eastern and central states. I would suggest fumigation with one of the nicotine extracts or hydrocyanic-acid gas, but if "F." will send specimens of the insect it will enable a positive identification, and we can then advise remedies somewhat more understandingly. If it is a true manure fly we should certainly advise "F." to discontinue the use of manure. C.

Prices of Indoor Fruits and Vegetables.

The prices of indoor fruits and vegetables at leading points June 5 were as follows: New York, cucumbers, $1 to $2.50 per dozen; mushrooms, 85 cents per pound; mint, 75 cents per dozen bunches; tomatoes, 12½ to 15 cents per pound; grapes, $1.25 to $1.50 per pound; cantaloupes, $1.25 each; peaches, $6 to $9 per dozen; nectarines, $9 per dozen; mangoes, $7.50 per dozen. Chicago, cucumbers, $1 to $2 per dozen; head lettuce, $3 to $6 per bbl.; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, $1 to $2 per pound; peaches, $15 per dozen; English melons, $15 per dozen; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City, cucumbers, 65 cents to $1 per dozen. Cincinnati, cucumbers, 30 to 40 cents per dozen; mushrooms, 40 cents per pound. Boston, cucumbers, $3.50 to $4 per box.

Polypodium Aureum Mandaianum.

At the National Flower Show in Chicago a much divided form of the common golden polypody (Polypodium aureum) was shown under the name of Polypodium aureum Mandaianum. The form is named for the orginator, W. A. Manda, who claims it to be a sporeling from Polypodium aureum glaucum The glaucum in this combination is apparently the trade name for what scientists know as Polypodium aureum areolatum, or Phlebodium aureum areolatum. The new form, then, is properly named P. aureum areolatum Mandaianum or P. aureum f. Mandaianum. As the study of fern forms is receiving increased attention, it is very desirable that the new forms originated be placed on record under their proper names. Considered from the purely decorative viewpoint, the new form is a very handsome plant.—**Fern Bulletin.**

Varieties of Polypodium Vulgare.

In view of the greatly increased interest taken in hardy and native ferns in this country, the following notes on the common polypody, from the pen of one of the best known British fern authorities, reprinted from the Journal of Horticulture, have a special value. Conditions here are, of course, different to those in Britain, but the suggestions given will be very useful to those forming collections of these interesting plants:

"The British flora embraces four species of the genus polypodium, a word which means many-footed, and is applicable to the form of the rootstock, which is a creeping one, consisting of a number of more or less fleshy stolons, or runners, such as we see in a more marked form in the haresfoot fern and other davallias. Curiously enough, however, the genus polypodium embraces only such ferns as bear their spores on the frond backs, in round or oval uncovered heaps, while most ferns have a sort of skin-like protective cover over the spores, at any rate, until they break through it at maturity. Hence there are numerous species of ferns, like the davallias above mentioned, which have the many-footed character obvious enough, but must not be called polypodiums because they bear their spores in different ways, and with some form of cover.

"Our four native species are P. vulgare, the common polypody; P. dryopteris, the oak fern; P. phegopteris, the beech fern; and P. calcareum, the limestone polypody. P. vulgare is altogether distinct from the other three, having tough, evergreen, once-divided or pinnate fronds, which spring in succession from fleshy rootstocks as thick as one's little finger, and travel but slowly by growth at the tips. The spores, of a bright orange yellow, are borne in large round heaps on the frond backs. The other three, with which we do not propose to deal at present, are deciduous, with thin, delicate fronds, bearing tiny, black or very dark brown dot-like spore heaps, while the rootstocks are like coarse strings, and travel rapidly in the loose leafy soil they delight in. It is also only in very congenial, moist situations that we shall find the oak and the beech-ferns, growing on walls and stone dykes; while the common polypody braves the weather far more boldly, and grows in most parts of the country, but more especially in the west, on old walls, old trees, and in the woods where broken up soil and rock and accumulated leaf mould afford congenial stations.

"In banks by the roadside, part rough stone wall and part hedge, the common polypody may be seen for miles fringing the upper parts with its pendulous fronds, its rambling roots being securely anchored in the cracks and crevices of the stones, or in the leafy débris of the hedge banks, half road dust and half decayed humus, which accumulates in such situations. Or we may come to the more formally built stone walls of aristocratic estates, and find it equally at home on their tops, where falling leaves and its own dead fronds have in time enabled thick masses of rootstock to accumulate.

"To grow this fern artificially, we must consider what these conditions mean. First and foremost, the situations are always well drained; secondly, we shall always find the creeping rootstocks to be exposed to the air, and not deeply buried in the soil; and thirdly, it is obvious that a plant of superficially rambling habit, is more at home in a shallow pan than in an ordinary pot. Such a pan, then, should be well drained with crocks, and filled with a lumpy, sandy compost of peat or leaf mould, the creeping rootstocks being embedded in the surface, with the finer roots proper buried beneath them. Hanging wire baskets lined with moss, and filled with similar compost, serve well for this species, which, when well established, will push through all round, and form a handsome specimen, always provided it is not allowed to get perfectly dry, since very few ferns indeed can survive droughts to that extent.

"In recommending these modes of culture we must confess that we have not in view the common polypody we have described, but its beautiful varieties. Nature has gifted this species, like most of the other British ones, with a power, here and there, of sporting spontaneously into very distinct and far more beautiful types. Thus there are several plumose or feathery forms, such as the well-known Welsh polypody (Cambricum), and several improved sub-varieties of this in very distinct lines, including Prestoni, Hadwini and Barrowi. There are also a number of tasselled varieties in which the side divisions and tips are more or less heavily crested, even to the extent of turning the whole frond into a single mass of cresting. Cristatum, Bifido-multifidum, Ramosissimum, Grandiceps (Parker), Grandiceps (Fox) and Grandiceps (Forster) are all beautiful, while Pulcherrimum and Elegantissimum (Cornubiense) preserve examples of dissected kinds of great beauty. No one who has grown specimens of any of these dreams of devoting space to the wayside forms, so much more charming are the varieties in question. They are all equally hardy and equally evergreen, so that through the winter, when most ferns are either invisible or shabby, these retain their verdure perfectly, and although when frozen hard the fronds shrivel and look very woebegone, the thaw restores them entirely and leaves them no whit the worse."

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LILY OF THE VALLEY.

The Nursery Trade

American Association of Nurserymen.

C. J. Brown, Rochester, N. Y. President; C. M. Hobbs, Bridgeport, Ind., Vice-President; George C. Seager, Rochester, N. Y., Sec'y.

ONE of the objections raised to the use of lime-sulphur solutions on fruit trees is the whitening effect on the fruit if used about the time this is coming to maturity. This weathers off if used earlier.

LITCHFIELD, CONN.—The Rosemore Nursery has been incorporated with Wm. T. Marsh president, Dr. John L. Buel vice president and A. T. Bulkley secretary and treasurer. The capital stock is $10,000.

KNOXVILLE, TENN.—A charter of incorporation has been granted at Nashville to the Standard Nursery Co. which is capitalized at $35,000. The incorporators are N. W. Hale, W. P. Wilson, C. W. McCormick and S. J. Herrell.

CHIEF FORESTER PINCHOT has sent to the presidents of all the leading railroads in the country a letter calling upon them to join in the effort to conserve the national timber supply. He points out that we are cutting our forests three times faster than they are growing and that in railroad ties alone the railroads enter the lists of the largest consumers. He suggests that they prolong the life of ties by chemical treatment; that they use so-called inferior woods; that they buy and properly manage lands bearing mature timber; that they plant trees upon non-agricultural land, and that they co-operate in fire prevention. All these suggestions would seem to be reasonable and feasible. Certain roads have already seen the handwriting on the wall and are planning to produce their own supplies of ties in the future.

Trees and Shrubs at Rochester, N. Y.

Exochorda Alberti was almost in full bloom May 20. It is unusually handsome in bloom this season, as it is sometimes inclined to be a shy bloomer. The pure white showy blossoms are much larger than in E. grandiflora, which comes in bloom from five to seven days later and is now in full flower. The handsome rhodora (Azalea Canadensis) opened its first lavender blossoms on May 16 and is now entirely past. Kaempfer's azalea (A. Indica Kaempferi) opened its first blossoms on the same date as the last and its lovely deep salmon red flowers are at present very showy. This is a splendid garden plant. A. Vaseyi also came in bloom with the above and some belated individuals are now in good flower. The handsome chaste blossoms, varying in different individuals from deep pink to almost white, are beautifully conspicuous. The Chinese azaleas in variety, with their showy orange, orange red, and yellow blossoms, are now coming in flower, and two Ghent varieties, Fritz Quihoni and Pallas, with handsome dark reddish blossoms, are now coming in flower. The handsome A. pontica, with clear yellow blossoms, is now in full bloom. A. nudiflora, our handsome native species, came in bloom May 27. Its rosy pink flowers are always pleasing.

Rhododendron punctatum opened its first flowers on May 25. This is a lovely garden plant and the flowers vary on different individuals from pink to pale lavender and almost pure white. R. racemosum, a dainty and rare small growing species with somewhat bell-shaped flowers, pink to deep rosy pink, came into flower May 25 and is now in good bloom. The first of the hybrid rhododendrons to bloom was Mrs. Davies Evans, which opened its first purplish lilac flowers May 25 and is now in full flower. As this is somewhat tender we keep it in a cold frame over winter. R. giganteum came in bloom May 25 and is now handsome. The deeply pinkish red or rosy red flowers are very conspicuous. R. Boule de Neige, with pure white flowers, is now coming in bloom. This has a remarkably compact habit and it is one of the hardiest rhododendrons in this neighborhood and for a white flowering variety it has no equal with us. R. atrosanguineum and R. Alexander Dancer, with dark red flowers, are now coming in bloom.

Pieris (Andromeda) floribunda was in full flower on May 15 and is still displaying a good many blossoms. The numerous racemes of white flowers surmounting the deep green leaves are very attractive. Enkianthus Japonicus, with its bell-shaped white flowers somewhat hidden amongst the leaves, is a rare choice shrub. The common native swamp blue berry (Vaccinium corymbosum) with its numerous clusters of white bell-shaped flowers is a most excellent garden shrub and is now in full bloom. V. pallidum, with its greenish-pink flowers, is now in bloom. The Chinese red bud (Cercis Chinensis) was in fairly good bloom on May 20. It has been unusually fine with us this season. The American red bud (C. Canadensis) opened its first flowers on May 21 and is still in fairly good bloom. The pure white flowering variety has not been long in cultivation. It comes into bloom a few days later than the type. Cercis siliquastrum from south Europe is not hardy with us and always partly kills back. The pinkish flowers, a few of which survived the winter, were open on May 25.

Amongst the evergreen barberries, Berberis repens, which does remarkably well here, was in full flower on May 17. The numerous terminal panicles are intense bright yellow. B. aquifolium, which blooms at the same time as the last, with yellow clusters, made a good display this season. B. fascicularis, which is not quite hardy here, blooms a day or two behind the others, and the small loose yellow flower clusters are produced along the branches. B. dulcis has orange yellow single blossoms which were open May 25. B. stenophylla has three flowered yellow clusters which are graceful and attractive and was in bloom May 25. Amongst the deciduous barberries B. Thunbergii is about the first to flower and its yellowish pretty blossoms hanging thickly on the branches were in good bloom on May 18. B. Sibirica, B. Regelianum and B. vulgaris Japonica were displaying their pretty yellow clusters on May 25.

The Colchican bladder-nut (Staphylea Colchica) with its fragrant white clusters was in full bloom May 24. Job's tears (S. pinnata) was almost in full bloom on the same date as the last. The whitish flowers with petals and sepals tipped with brownish pink, in usually two ranked racemes, are not nearly as showy as S. Colchica.

The white-flowering dogwood (Cornus Floridus) is in glorious bloom just now. It is several years since it looked so gay. It came into full bloom May 24 and is now (May 29) in fine condition. Kerria Japonica, the single form, has been in good bloom since May 19. Rhodotypos kerrioides, with its pure white flowers resting prettily amongst the leaves, has been in flower since May 23. Daphne cneorum, with its pinkish and fragrant blossoms, and D. Genkwa, with its lavender flowers, have been in bloom since May 15. Aesculus arguta, with its yellowish flower clusters, was in flower May 20, and the common horse chestnut (A. hippocastanum) is now displaying its bouquets of whitish flowers. A number of bush honeysuckles have been in bloom since three or four days. Amongst them are Lonicera Tartarica in variety, L. bella in variety, L. Segreziensis, L. parviflora, L. Mundenensis and L. Xylosteum, with variable rose-tinted, pink, white or yellowish blossoms.

The Chinese lilac (Syringa oblata), which we mentioned as coming in flower in our last notes, is now passing out of flower. A new species, S. Giraldi, recently introduced from China, blooms about the same time as the last. We noticed two good bushes six to seven feet in height in full flower in the home grounds of the Ellwanger & Barry nurseries on May 24. The pale lavender flowers with partly reflexed petals and with sometimes five to six panicles combined in one inflorescence, stand prominently above the leaves and look quite showy, and it certainly is a most desirable early flowering lilac and should prove popular in time. The varieties of the common lilac (S. vulgaris) are now bueautiful in half-open condition.

JOHN DUNBAR.

American Association of Nurserymen.

ROCHESTER CONVENTION (BY WIRE).

The thirty-fourth annual convention of the American Association of Nurserymen was opened at the Hotel Seneca, Rochester, N. Y., June 9, to be continued until June 11. All along it had been expected that the convention would be well attended in Rochester, which has been termed the nursery headquarters of America, and these expectations were amply realized, a very large number of representative men in the trade being present. President Brown's address was well received as were the reports of Secretary Seager and Treasurer Yates. The address of welcome by the Hon. H. H. Edgerton, mayor of Rochester, was extremely cordial and put all in good spirits and the various papers read were of a practical nature as was to be expected from the caliber of the speakers and aroused great interest and enthusiasm as well as calling forth considerable discussion. With few exceptions the programme was carried out in its entirety though all regretted that J. W. Hill of Des Moines, Ia., owing to illness and death in his family, was not able to read his promised paper on "Should Wholesale Protect Retail?"

Treasurer Yates' Report.

RECEIPTS.

1908.		
June 8—To cash on hand		$2913.27
June 30—Interest on hand	$ 26.17	
Dec. 31—Interest on hand	35.53	
1909.		
May 3—Geo. C. Seager, Secretary	1070.00	
June 7—Geo. C. Seager, Secretary	1692.25	2823.95
		$5737.22

DISBURSEMENTS.

1908.	
June 18—Geo. C. Seager salary, etc.	$ 506.21
White Head & Hoag Co., badges	27.45
Union & Advertiser Co., badge books	303.26
June 22—Geo. C. Seager telegrams, etc.	1.11
July 13—C. L. Yates salary and postage	50.80
July 16—Miss Emma Jacobson reporting committee	64.90
Orlando Harrison, stamps, printing, etc.	30.95
B. E. Fields printing 1,000 copies S. O. law	25.55
July 27—Thomas B. Meehan Com. on Exhibits	22.67
Oct. 17—Union and Advertiser Co.	234.90
Oct. 23—J. H. Dayton Attending Meeting tariff Com.	15.00
Geo. C. Seager express	2.20
Dec. 26—J. H. Dayton, expense on tariff Com. Wash.	47.40
Theo. J. Smith expense on tariff Com. Wash.	32.60
Wm. Pitkin expense on tariff Com. Wash.	40.20
1909.	
Jan. 13—M. E. Wolff Co. Bond for Treas.	18.75
March 2—W. C. Reed Attending W. Classification Com.	95.40
Stark Bros. Attending W. Classification Com.	83.80
March 18—J. H. Dayton Expense Wash. Leg. Com.	46.60
J. M. Pitkin Expense Wash. Leg. Com	39.75
William Pitkin Expense Wash Leg. Com.	46.01
March 25—William Pitkin Expense Wash. Leg. Com.	.54
Thomas B. Meehan Expense Wash. Leg. Com.	23.00
March 27—Irving Rouse Expense Wash. Leg. Com.	40.50
April 12—Wm. Pitkin Expense to Buffalo Tariff Com.	5.25
Irving Rouse Expense to Buffalo Tariff Com.	5.83
May 7—Wm. Pitkin Expense to Wash. T. Com.	32.80
Irving Rouse Expense to Wash. T. Com.	40.00
June 7—Cash to balance	3853.79
	$5737.22 $5737.22

Secretary Seager's Report.

Receipts.

Membership fees	$2,035.00
Advertising in badge book	722.00
Extra badges and books	23.50
Exchange	5.25
Codes	.55
Total	$2,786.30

Disbursements.

May 3, 1909, C. L. Yates, Tr.	$1,070.00
June 7, 1909, C. L. Yates, Tr.	1,692.25
Postage	1.95
Exchange	22.10
Total	$2,786.30

Visitors.

R. J. Bagby, New Haven, Mo.
W. P. Bates, Elyria, Ohio.
O. P. B. Beckley, Harrisburg, Pa.
C. A. Bennett, Robbinsville, N. J.
A. J. Brown, Geneva, Neb.
G. A Bryant, Princeton, Ill
Herbert Chase, Huntsville, Ala.
H. B. Chase, Huntsville, Ala.
R. C. Chase, Huntsville, Ala.
E. W. Chatlin, Winchester, Tenn.
R. J. Coe, Ft. Atkinson, Wis.
S. W. Crowell, Rich, Miss.
Howard Davis, Baltimore, Md.
Joseph Davis, Baltimore, Md.
J. F Dayton, Painesville, Ohio.
E. T. Dickinson, Chatenay, France.
W. T. Gough, Abilene, Kans.
Fred Green, Perry, Ohio.
Ben Greening, Monroe, Mich.
Chas. Greening, Monroe, Mich.
A. C. Griesa, Lawrence, Kans.
T. E. Griesa, Lawrence, Kans.
Orlando Harrison, Berlin, Md.
W. F. Heikes, Huntsville, Ala.
W. T. Hood, Richmond, Va.
C. A. Ilgenfritz and wife, Monroe, Mich.
William Ilgenfritz, Monroe, Mich.
Hiram T. Jones, Elizabeth, N. J.
Geo. S. Josselyn and wife, Fredonia, N. Y.
C. B. Knickman, New York.
A. F. Lake, Shenandoah, Ia.
D. S. Lake, Shenandoah, Ia.
R. S. Lake, Shenandoah, Ia.
J. A. Lopeman and wife, Enid, Okla.
J. McHutchinson, New York.
J. W. McNary, Dayton, O.
T. B. Meehan, Dresher, Pa.
W. C. Reed and wife, Vincennes, Ind.
E. W. Reid and wife, St. Paul, Minn
M. C. Roberts, Wolcott, N. Y.
H. D. Simpson and wife, Vincennes, Ind.
Fred Skinner and wife, Topeka, Kans
J. H. Skinner, Topeka, Kans.
John Spielman, Adrian, Mich.
F. H. Stannard and wife, Topeka, Kans.
W. P. Stark, Louisiana, Mo.
R. C. Stoehr, Dayton, Ohio.
Fred Taylor and wife, Topeka, Kans.
J. Meerkamp Van Embden, Mount Vernon, N. Y.
J. H. Wallace, Shenandoah, Ia.
C. L. Watrous, Des Moines, Ia.
E. S. Welch and wife, Shenandoah, Ia.
Geo. H. Whiting, Yankton, S. D.
R. A. Wickersham, Baltimore, Md.
E. M. Wilson, Louisiana, Mo.
Charles Work, St. Joseph, Mo.
Peter Youngers, Geneva, Neb.

QUINCY, ILL.—John A. Heller, 1117 North Eighth street, has retired from business entirely. He has been constantly at work every day in the year, for others from June 10, 1854 until 1881, when he went into business for himself and has worked constantly every day until now his five greenhouses are being torn down to make room for modern dwellings.

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3 to 3½ ft $21 00	4 to 5 ft	$31 00
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Per 10		Per 10
8 to 12 in $1 50	1½ to 2 ft	$ 6 50
1 to 1½ ft 2 50	2½ to 3 ft	20 00

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Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.
We shall be pleased to give special prices on lists.
ASK FOR WHOLESALE CATALOGUE.
BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

BOX TREES.
We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height.	Each.	Pair	Height.	Each.	Pair
2½ ft.	$2 00	$3 75	5 ft.	$7 00	$13 00
4 ft.	4 00	7 00			

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$8 00	18-22 in.	30-32 in	$5 50	$10 00
				22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high ..... Each, 40c. per doz., $4 00
18 to 22 in. high ..... Each, 60c. per doz., $6 00

All Plants F. O. B. Western Springs, Ill.
VAUGHAN'S SEED STORE,
84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.
Book for Florists, Spring Edition, Now Ready.

STOP! LISTEN!

No Finer Stock Was Ever Shipped. Send for Sample.

ROSE PLANTS

AMERICAN BEAUTY	3-inch pots,	$7.00 per 100; $60.00 per 1000
" "	2¼-inch pots,	5 00 per 100; 45.00 per 1000
RICHMOND	3-inch pots,	4.00 per 100; 35.00 per 1000
CHATENAY	3-inch pots;	4.00 per 100: 35.00 per 1000
MAIDS	3-inch pots,	4.00 per 100; 35.00 per 1000
ASPARAGUS SPRENGERI	4-inch pots,	$8.00 per 100
" PLUMOSUS	3-inch pots,	5.00 per 100
SMILAX	3-inch pots,	4.00 per 100

United States Cut Flower Co.

ELMIRA, N. Y.

The Nitro-Bacterine Cult.

Much interest is being taken in this subject in England just now. For two or three years past Professor Bottomley of King's College, London, has been working up the life history and work of the minute organism now known as Pseudomonasradici cola, and he has prepared special cultures, which he claims have the power of fertilizing a sterile soil—even a slag heap. Many English nurserymen and seedsmen are booming the nitro-bacterine cultures and are offering inoculated seeds of sweet peas and other plants to their customers. In many instances glowing accounts have been given as to the marvelous results that have been obtained by its use; but as these accounts are mostly from unskilled amateurs who have had little or no experience in gauging the difference between a good crop or a bad crop of anything, their enconiums must not be taken too seriously.

The Royal Horticultural Society carried out some experiments last year in its gardens at Wisley, with Professor Bottomley's cultures, and the results were rather of negative value. Apart from scientific grounds, the trials were hardly conclusive one way or another, simply because the rows of peas (that was the crop under trial), although of the same length had a varying number of plants in each. This was due to mice, mildew and other unlooked for factors. It was therefore scarcely fair or scientific to weigh the produce of one row against another, as the number of plants in each were not identical. Professor Bottomley also claims that his instructions were not carried out properly and that the nitro-bacterine cultures were applied to some flats that had been previously treated with acid manures. He distinctly stated that the bacteria will not work in acid soils and therefore the trials on these flats were rendered useless. However, fresh trials will be carried out this year, and let us hope they will be conducted on somewhat better and more easily understood lines than they were last year. A definite number of plants, say 100, 200 or 500, should be taken and grown under identical natural conditions. The cultures could then be applied to a certain number in various ways, and the untreated plants, or those grown in the ordinary way, would serve as controls to the entire experiment.

On May 13, Professor Bottomley lectured before the members of the London branch of the British Gardeners' Association on his specialty. He made a good deal of fun out of the pseudomonas, and explained in popular language what an interesting little fellow he really was, and what marvelous work he was capable of performing under proper conditions. There are apparently three distinct forms or shapes of the bacterium, globular, cylindrical and spiral, or, as the professor put it, billiard ball, cigarette and corkscrew. The bacteria attack the root hairs of leguminous plants, pass into the tissues first of all in a thread-like form, and afterwards split up. The process of reproduction is so rapid under proper conditions that at the end of 24 hours it has been computed that 28,000,000,000,000,000 (the reader can put the 15 cyphers and the 28 into his own language) are the result of one parent—that is, if a sexless organism can be called a parent. The curious thing is that bacterium No. 1 splits into 2, when ready. There are then two distinct bacteria, each as perfect as the one from which the first sprang, but where did 1 go to? And so on with the teeming millions that are produced apparently forever and forever. A point of practical importance to the gardener is this, that, on the surface of the soil, no bacteria exist; but at six inches deep about 250,000,000 are to be found in one gram of soil; the number then decreases the deeper one goes. The argument, however, is that, if deep cultivation is practiced the bacteria are encouraged to invade the sub-soil, and in this way bring about a fertilizing influence upon it. The subject is teeming with possibilities and perhaps gardeners who take a practical interest in these scientific aspects of their profession can do much towards solving the problem.

OUR NEW CARNATION SHASTA

Is always pure white, is always in bloom and is always high grade.
$12.00 per 100; $100.00 per 1000. Send orders **now** to
PATTEN & CO., Tewksbury, Mass. **BAUR & SMITH,** Indianapolis, Ind.

MARY TOLMAN

A new light salmon pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. **HUNT BROS.,** Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.
$12.00 per 100. $100.00 per 1000.
A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

A New Seedling Carnation :: :: :: Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

White Killarney

It is needless to say much about the value of this

NEW WHITE ROSE

its value is so well established. In support of this statement, we might say that we intend to plant not less than 20,000 for our own growing. We have a splendid stock of both grafted and own root plants which we can deliver immediately on receipt of order—gilt-edged planting stock. We guarantee perfect satisfaction.

Strong plants, 2¼-in. pots, own root.....$30 00 per 100; 250 for $70 00; $250 00 per 1000
Grafted plants..... 35 00 per 100; 250 for 82 50; 300 00 per 1000

HYDRANGEAS In bud and bloom

We offer fine plants well budded, just beginning to show color; in splendid shape for immediate use.
6-in. pots, 4 to 5 blooms each.....$9 00 per doz.

LARGE PLANTS IN TUBS

We have a large stock of splendid plants, grown in tubs and half barrels, **for July and August flowering.**
Fine plants in tubs.....$2 00 each Extra large plants in half barrels.....$5 00 each

A Few Seasonable Specialties

Boxwood, Pyramidal, fine plants, 3 ft. high.....$2 00 each
4 ft. high.....$3 00 each 4½ ft. high..... 4 00 each
Rubber Plants (Ficus Elastica), very large, bushy plants, in tubs, 4 ft. high, fine for summer decoration..$3 50 each
6-in. pots, 3½ ft. high.....$ 9 00 per doz.
Ampelopsis Veitchii, strong plants, 4-in. pots.$15 00 per 100
English Ivy, 3½-in. pots..... 12 00 per 100
Phoenix Roebeleni, extra fine plants, 5-in. pots.....$18 00 per doz.
Crotons, strong plants, 3-in. pots..... 3 00 per doz.
5-in. pots.....$6 00 per doz. 6-in. pots..... 9 00 per doz.

Cannas., Beaute de Poitevine, Buttercup, Souv. d' Antoine Crozy, Pierson's Premier, Mlle. Berat, L. Patry, Florence Vaughan, etc. Per 100
Strong, started plants, 3½-in. pots.....$6 00
Dormant roots.....$25 00 per 1000 3 00
Caladium Esculentum, started plants..... 6 00
Geraniums, Double Gen. Grant, extra fine plants, 3½-in. pots, in bud and bloom..... 8 00
Geraniums, assorted, 3½-in. pots, in bud and bloom... 8 00
Vinca Variegata, 4-in. pots, $10 00 per 100; extra heavy..16 00
Nasturtiums, 3-in. pots..... 4 00

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

"BUSINESS NECESSITY"

Edition of 1909, Postpaid, $3.00.

THIS is the only term which describes the American Florist Company's Directory, just out. This book, 548 pages of facts tersely told, is issued annually and is an aid to business and money making which no wholesaler or traveling salesman can afford to be without. It contains the name of every Florist, Nurserymen and Seedsmen, arranged both by states and towns and alphabetically; and lists of experiment Station Horticulturists, Landscape Architects, Horticultural Supply Concerns and Leading Foreign Firms. It will save many times its cost by enabling you to cover America with your catalogue and at the same time waste no printed matter or postage on dead names.

A Ready Reference Manual.

AMERICAN FLORIST COMPANY,
324 Dearborn Street CHICAGO.

Surplus Stock

From 2½-inch pots.
Clean, thrifty stock.

	Per 100	1000
ROSES, mostly summer propagated: Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay, Minnehaha, Philadelphia, White and Yellow Rambler	$3 00	$27 50
Anny Muller	3 50	30 00
Baby Rambler	2 75	25 00
White Baby Rambler	3 00	27 50
Asparagus Plumosus Nanus	3 00	25 00
Asparagus Sprengeri	3 00	25 00
Hibiscus "Peachblow"	3 00	25 00
Jerusalem Cherry	3 00	25 00
Lemon Ponderosa	3 00	25 00
Palm Areca Lutescens	4 00	35 00

Jackson & Perkins Co.
Newark, New York.

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., Morton Grove, Ill.

LAST CALL FOR 'MUMS
for Early Planting.

SEE PRICES ON THESE NOVELTIES:

	Per 1000
10,000 **Golden Glow, Pacific Supreme, White Cloud,** 2½-inch	$25 00
R. C.	18 00
5,000 **October Frost,** 2½-in	20 00
R. C.	12 00

After June 15 a limited quantity of **Virginia Poehlmann** at $4 00 per 100. Order now.

1000 **Golden Eagle,** new yellow $5 00 per 100	
All Standards, midseason and late, 2½-in	20 00
R. C.	12 00

Write for our prices on big lots.
Can't be beat. 200 at 1000 rates.

I. M. RAYNER, Greenport, N. Y.

Winnepeg, Man.

Business has been exceptionally good this last two weeks. There has been a bigger demand for bedding stock than ever before, with prices good for first class stock. There has also been a large number of weddings, which have kept all busy. There are also some very good ones booked for next week. The weather conditions are ideal just now for the bedding stock, slight showers and warm weather which are very acceptable after our late spring. Prospects are splendid for bumper business this season.

Nothing has been arranged so far this season for an outing but we intend having one later in the summer.

K.

VINCENNES, IND.—W. A. Rieman's peony fields, three miles north of this city, are just at their best and, although thousands are being shipped daily to all parts of the country, the demand is said to exceed the supply and Mr. Rieman is extending his plantings.

SEASONABLE STOCK

	2-in. Per 100	3-in. 1000
GERANIUMS, good assortment	$2 00	$3 00
Our selection, 10 good kinds	$15 00 per 1000	
Ageratum, 5 kinds	2 00	3 00
Cannas, J. D. Eisele, Egandale, Alph. Bouvier, Mme. Crozy,		
Florence Vaughan		4 00
Jean Tissett, President Myers, Louisiana, Pennsylvania		5 00
Centaurea Gymnocarpa	2 00	3 00
Cineraria Maritima Candidissima	2 00	3 00
Hardy Chrysanthemums,		
Small flowering	2 00	
Large flowering	3 00	

	2-in. Per 100	3-in 1000
Dahlias, pot plants, standard kinds and up to $6 00 per 100.	2 00	
Jack Rose, Virginia Maule, Big Chief	50c each: 35 00	
Hardy English Ivy	2 00	
Lemon Verbena	2 00	
Lobelia, Kathleen Mallard	2 00	3 00
Petunias, Dreer's Superb Single	2 00	3 00
Salvia Bonfire	2 00	3 00
Zurich	3 00	4 00
Senecio Scandens (Parlor Ivy))	2 00	3 00
Smilax, extra strong	2 00	
Tradescantia, dark variegated	2 00	
Verbenas, mixed colors	2 00	3 00

Not less than 25 at 100 rates; 250 at 1000 rates. Cash with order.

A Personal Inspection Invited. White Marsh is at Cowenton Station, B. & O. R. R., 15 miles north of Baltimore. We meet all trains.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

ROSES

	Per 100	1000		Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00	**Bride,**	$ 5 00	$ 45 00
" 3-in.	9 00	80 00	**Maid,**	5 00	45 00
" 2-in.	6 50	60 00	**Potter Palmer,** 2½-in	5 00	45 00
Rhea Reid, 2¼-in	5 00	45 00	**Kaiserin,** 3½-in	6 50	55 00

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now. R. C. $2 50 per 100, $20 00 per 1000; 2½-in., $3 00 per 100, $25 00 per 1000
No more Virginia Poehlmann R. C. or 2½-in. until June 15.
For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in. $4 00 per 100: $35 00 per 1000
Smilax, 3-in. 4 00 per 100: 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash.
Terms: 30 days, net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

EARLY 'MUMS

Should Be Planted at Once for Best Results.

We have the following in quantity ready for immediate delivery. Also full quota of **MIDSEASON AND LATE SORTS** for those ready to plant. Price on application.

EARLY

Glory of Pacific, Ivory, Polly Rose,
Golden Glow, October Frost, Robert Halliday,

Price: $3 00 per 100; $25 00 per 1000.

Pacific Supreme $4 00 per 100; $35 00 per 1000
Virginia Poehlmann $5 00 per 100

Not less than 25 of a kind at 100 rate; 250 at 1000 rate.

ELMER D. SMITH & CO., Adrian, Mich.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond, Rose pots, $15.00 per 100; 3½-in. pots, $18.00 per 100. Brides, Bridesmaids, Golden Gates, Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100: 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle, 3-in. pots, $7.00 per 100: 4-in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

GRAFTED ROSE PLANTS

Choice stock ready to plant in the benches.

2,000 Maids, 4-inch.....$15 00 per 100
3,000 Brides, 4-inch..... 5 00 per 100
4,000 Killarney, 3 1-2-inch..... 15 00 per 100

OWN ROOT ROSE PLANTS.

5.000 Kaiserin, 3-inch.....$4 00 per 100
5,000 Maids, 2 1-2-inch..... 3 00 per 100

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

GRANDPA BRASLAN says no young business man can lick up all the booze in his town, or even try to and be a success either as a seedsman or a florist.

At Chicago.

Competitive bowling was begun at the Bensinger alleys last Friday evening to select the five-man team that will represent the Florists' Club at the S. A. F. convention at Cincinnati in August. There was a large attendance and great interest was displayed. John Zech proved the premier pin getter, hitting the wood for an average of 203 flat, with 237 for high game. Henry Kruchten bowled three consistent games and finished with 193 1-3. Allie Zeck got a good start with two games of over 200, but fell down on his last game and finished with 182 2-3. V. Bergman and T. C. Yarnall completed the five high men with averages of 177 1-3 and 176, respectively. Several others finished well up and may give the leaders quite an argument before the competition closes.

THE SCORE.

O. Goerisch	144	126	145
J. Kruchten	118	142	127
G. Peiser	100	153	104
F. Ayers	171	138	180
J. Zech	237	181	191
J. Degnan	165	167	165
J. Byers	154	114	121
A. Zech	200	203	145
F. Pasternik	173	134	152
J. Michaelson	149	148	156
C. McKellar	105	174	145
A. Rennie	101	86	97
F. Krauss	141	111	108
H. Kruchten	177	198	205
E. Schultz	165	158	150
J. Vogel	91	67	82
T. Graff	125	171	131
E. Farley	120	146	151
W. Wolf	155	158	203
V. Bergman	225	158	149
T. C. Yarnall	155	192	181
E. Winterson	130	145	147

ROSES

Strong Plants, free from mildew, and in growing condition. Good stock for planting now.

	OWN ROOTS	Per 100	Per 100
Bride and **Bridesmaid,**	2½-in. pots	$5 00	$40 00
Bride, Bridesmaid, Richmond, Chatenay and **Mrs. Potter Palmer,**	3-in. pots	6 00	50 00

S. J. REUTER & SON, Inc., Westerly, R. I.

At New York.

BASEBALL JUNE 6.

The game of baseball between teams from the wholesale and retail employes was played on the afternoon of June 6 on the Jasper oval, 135th street and Amsterdam avenue. The features of the game were the hits of G. Allen and Clarke of Wadley & Smythe's and the catching of Matthews, which would have made John McGraw take notice if he had been there. The retailers won out. The score follows:

Retailers.	R.	H.	P.	A.	E.
Bahr, 1b.	3	4	8	2	0
Smith, 2b.	3	2	2	3	1
Clark, 3b.	5	6	2	7	0
G. Lentz, c.f.	4	3	1	0	0
Kahler, l.f.	3	4	2	0	0
Banford, s.s.	2	3	1	4	1
Orlando, c.	4	3	7	0	2
Wolf, p.	3	5	2	3	1
Phifer, r.f.	3	2	2	0	0
Totals	30	32	27	19	5

Wholesalers.	R.	H.	P.	A.	E.
Hale, c.	2	3	6	1	0
Foley, p.	2	2	1	2	1
Egenbrod, 1b.	2	2	7	1	1
Lawlor, 3b.	1	3	2	2	0
Golsner, 2b.	2	3	3	4	2
G. Allen, r.f.	2	4	1	1	0
B. Jacobs, c.f.	1	2	2	1	0
Thompson, l.f.	1	2	2	0	0
Matthews, s.s.	2	3	3	4	0
Totals	15	24	27	16	4

Wholesale	4	2	0	1	3	2	1	2	0—15
Retail	6	3	4	2	0	4	6	2	3—30

BOWLING.

C. L. Seybold, superintendent of Carroll park, Baltimore, Md., took part in the national bowling tournament at Madison square garden last week and made an average score of 200. Look out for him at Cincinnati! B. L. Chadwick of Vaughan's Seed Store also took part in bowling at the garden, making an average score of 190.

SOUTH BEND, IND.—The Berger Floral Co. has been incorporated with capital stock $40,000. August F., L. M., Paul O., Herman H., Rose A., Wm. R. and John F. Berger are the incorporators.

ROSES --- Own Root

Brides, Maids, Killarney, Richmond, Perles and Chatenay
4-in. $8.00 per 100; $75.00 per 1000.

My Maryland, Mrs. Jardine, Rhea Reid and Queen Beatrice
4-inch $12.00 per 1000. No better stock on the market.

'MUMS

Sure, that's our middle name. All you want at $3.00 per 100; $25.00 per 1000, 2½-in. pots.

Asparagus Plumosus and Sprengeri
Fine year old plants, from the bench $8.00 per 100; $75.00 per 1000.

CHARLES H. TOTTY, Madison, N. J.

AMERICAN BEAUTY

$3.00 per 100; $25.00 per 1000.

Strong, clean, healthy plants from benches. **We need the space. Hence our offer.**

J. A. BUDLONG
37-39 E. Randolph St., CHICAGO.

Always mention The American Florist when you order stock.

San Francisco.

BUSINESS BETTER.

After a long spell of very slack business the retailers have had a few days in which they have been able to add a little on the right side of the ledger, as Decoration day has been a remarkably busy time with all. As the business divided itself over three or four days, everyone had ample time to attend to everything that looked like an order. Flowers of all kinds were plentiful with the exception of good roses, but as the demand is mostly for cheap flowers, the former were not missed very much. Owing to our mild and equable climate there is no demand for bedding plants, etc. for Decoration day, cut flowers only being in demand. The leading outdoor flower at the present time is the sweet pea, enormous quantities having been sold during the last week. Next in line come Gladiolus The Bride, gypsophila, stocks, marguerites, iris and other seasonable flowers. The price of all kinds of stock was quite low, which was very satisfactory to the retailers, but not so to the growers. We are now looking forward to a very quiet season the next three months, after a busy two weeks for the school commencement exercises, for which occasions quite a lot of flowers are used.

NOTES.

The MacRorie-McLaren Co. has secured the contract to remove two Phœnix reclinata, the trunk of each being 3½ feet in diameter and 25 feet high and each weighing about 10 tons. These palms, which are quite historic, are growing on the famous Nob Hill, passed through the conflagration three years ago, and although all the buildings and anything burnable in that neighborhood were swept away by the relentless flames, these had only their leaves burned off and the next year they began growing as vigorous as ever and are now quite presentable plants. They are growing near the ruins of the former Huntington residence and will be removed to H. E. Huntington's place at San Gabriel near Los Angeles. In connection with this it is most remarkable that hardly a shrub or tree or any other vegetation which passed through the fire showed any signs of life after, but wherever we have seen a phœnix it is now growing most vigorously. The name seems to be very appropriate.

An interesting private place visited recently is Slade's. Charles Ehrlich is the head gardener here. Mr. Ehrlich has only a few small greenhouses under his care but he is growing some excellent plants, especially ferns, one specimen plant of Davallia Mooreana being in particularly fine condition. Mr. Ehrlich is growing some specimen chrysanthemum plants for the fall show which look very promising; he also has a large collection of dahlias with which he will compete for the prizes. The outdoor roses are a special feature on this place and although the main season was over, they were still a sight long to be remembered. A lot of Mrs. John Laing and Ulrich Brunner with immense flowers certified to the skill of the man attending to them.

During a recent visit to J. B. Coryell's place at Fair Oaks we found the head gardener, Andrew MacDonald, busy potting a new importation of Cattleya labiata. There are quite a number of houses at this place devoted to orchids and they all look in fine condition especially one house which is filled entirely with phalænopsis, quite a number of these being in bloom. Mr. MacDonald is also growing some very fine specimen plants of ferns, palms and foliage plants, one large house being almost entirely filled with crotons. This is as fine a collection of crotons as I have seen anywhere, almost every one being a specimen plant and all being most brilliantly colored.

At Redwood City we called on H. Goertzhain, who was busy potting chrysanthemum cuttings. He was also getting a large enclosure ready which is covered entirely with cheese-cloth, 25,000 yards being used for it. He is growing 55,000 plants in this place all single stems. The flowers under this covering grow quite as large and perfect with long stems as those grown under glass. Chrysanthemums and asters are Mr. Goertzhain's specialty, besides these he grows carnations and lilies quite extensively; of the former he had quite a fine lot in bloom at the time of our visit.

D. MacRorie and D. McLaren recently incorporated under the name of the MacRorie-McLaren Co., with offices at 721 Crocker building, will engage in landscape work, importation, growing and dealing in orchids, bulbs, seeds, trees, shrubs, hardy and greenhouse plants. Mr. McLaren is the son of the well known superintendent of Golden Gate park, John McLaren.

John R. Sievers who, soon after moving into his new store corner Powell and O'Farrell streets called a creditors' meeting, offered to settle his indebtedness at 25c on the dollar, the indebtedness amounting to $19,000, is still continuing in business. This firm has no connection with the Sievers Floral Co.

The growers and gardeners on private estates are all getting busy growing specimen plants and flowers for the fall flower show. As the prizes offered are quite large the competition will be very keen especially in chrysanthemums and dahlias.

F. Ludemann, the pioneer nurseryman on the Pacific coast, has been quite sick recently, but is slowly recoveing, and we hope to see him entirely well again in the near future.

Matraia and Sargentini who a few weeks ago opened a very pretty store at 307 Sutter street have gone out of business again.

In San Mateo we found C. Fick quite busy in his store with some funeral work. P.

MY MARYLAND

The Greatest Producing Rose in Commerce Today

Selected plants of the highest quality, ready to ship.
Grafted, $20.00 per 100; $150.00 per 1000. Own root, $10.00 per 100; $90.00 per 1000

You will kindly remember that we have

Waban Strain White Killarney

that will please you. Grafted, $35.00 per 100; $300.00 per 1000.

A. N. PIERSON, Inc., Cromwell, Conn.

Carnation Cuttings

Enchantress	$2.00 per 100	White Perfection	$2.50 per 100
Lady Bountiful	2.00 per 100	Winsor	2.50 per 100
Rose Pink Enchantress	2.50 per 100	Aristocrat	2.50 per 100
Victory	2.50 per 100		

KING WAMBA AGERATUM.

Rooted Cuttings.....$3.50 per 100 2½-inch pots.....$5.00 per 100
Immense truss of blue flowers 3 to 4 in. in diameter: compact habit, 8 in. high, fine bedder.

Salvia Zurich Rooted Cuttings, $1.50 per 100; $12.00 per 1000.

ASPIDISTRAS, 5 to 10 leaves (green)..7c per leaf **SAGO PALMS,** 4 to 6 leaves.....8c per leaf

PERENNIAL GARDENS CO., Toledo, Ohio.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$6 00	$50 00
Maids, grafted	4 00	30 00
Brides grafted	4 00	30 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	4 00	35 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.
Golden Glow Chrysanthemum Cuttings.
Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

New Carnation Lucille

White, overlaid with Pink.
Will bring you bigger returns.

Try it and be convineed that it is a money maker.
$12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

BARGAINS.

Geraniums, Pelargoniums, Roses, Moonvines, Cobeas, Petunias, Fuchsias, Shasta Daisies, Heliotrope, Cyclamen and 100 other things. Write us your wants.

GEO. A. KUHL, Pekin, Ill.

RHINEBECK, N. Y.—Frank Marquet is building a greenhouse on Chestnut street.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN WELL ESTABLISHED Plants

Kentia Belmoreana

		Per doz.	100
5-in. pot, 6 to 7 leaves, 18 in. high		$ 6 00	$50 00
		Each	
6-in. " " "	22 to 24 in. high	$1 00	$12 00
6-in. " " "	24 to 26 in. "	1 25	15 00
6-in. " " "	26 to 28 in. "	1 50	18 00
9-in. tub " "	42 to 48 in. "	5 00	

Kentia Forsteriana

		Each	Per doz.
6-in. pot, 5 to 6 leaves,	28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves,	30 to 32 in. "	1 25	15 00
6-in. " 6 leaves,	34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high.....$ 4 00 each
12-in. " 4 plants, 6 feet high heavy..... 15 00 each

Joseph Heacock Co., Wyncote, Pa.

BAY TREES

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS. Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

Omaha.

TRADE GOOD.

Business for the last month was very good, in fact much better than last year, especially Decoration day; flowers were somewhat scarce on account of the cool weather and the damage by hail April 28 and therefore most of the stock had to be sent in from Chicago and other places. A good many peonies are grown in this vicinity but they went back on us this year, the first time in a good many years. Carnations sold for $1 per dozen, peonies $2 per dozen, roses $1 to $2 per dozen. American Beauty $6 per dozen. Pot plants of all description sold well especially hydrangeas, and brought good prices; bedding plants never before sold so well and almost everyone is sold out.

NOTES.

Growers have been busy replacing glass damaged by the hail, April 28. Hess & Swoboda have six houses of carnations repaired and are cutting some nice stock again. A. Donaghue will rebuild some of his houses entirely.

The Florists' Club held its May meeting at Paul B. Floth's residence in honor of his recovery from a long and treacherous sickness; the meeting was well attended.

J. Hadkinson and wife have left for Tacoma, Wash., where Mr. Hadkinson has a position as manager of the city parks; we have lost an active and valuable man.

GRIPPE.

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,

WEST GROVE, PA.

Roses-surplus

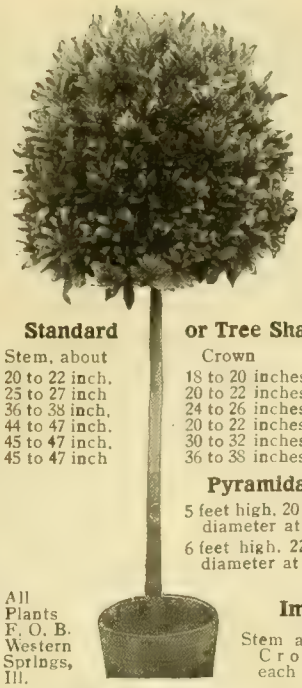
list now ready.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

READING, PA.—The sale of peonies for Memorial day here was very large, yet even more flowers of good quality could have been sold. There was an overabundance of small and second rate stock.

BAY TREES

(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard or Tree Shaped.

Stem, about	Crown	Each
20 to 22 inch.	18 to 20 inches	$ 4 00
25 to 27 inch	20 to 22 inches	4 50
36 to 38 inch.	24 to 26 inches	6 00
44 to 47 inch.	20 to 22 inches	6 00
45 to 47 inch.	30 to 32 inches	10 00
45 to 47 inch	36 to 38 inches	12 00

Pyramidal Shaped.

5 feet high, 20 to 22-in. diameter at base....$ 7 50
6 feet high, 22 to 24-in. diameter at base.... 9 00

Imperials.

Stem about 48-59 in. Crown 30-inches each $15 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

CHICAGO. NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

ARAUCARIAS

EXCELSA

Fine Stock

5-in. 3-4 whorls. 12 to 14-in. high. each. **75c** doz. **$8.00.**

6-in. 4 whorls, 14 to 16-in high. each. **$1.00** doz. **$11.00.**

6-in. 4 whorls. 16 to 18-in. high. each. **$1.25** doz. **$14.00.**

VAUGHAN'S SEED STORE,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.

25 Barclay St., NEW YORK.

SPECIAL PRICES ON

BEDDING STOCK

	Per 100
Ageratum, Little Blue Star. 2¼-in	$1 00
Alternantheras, Yellow. 2¼-in	1 50
Centaureas, Dusty Miller, 2¼-in	1 50
Dracenas, 4-in	12c each
Geraniums, standard varieties.	
2¼-inch	2 50
3 inch	5 00
Heliotrope, 2¼-in	2 00
Lobelia, compacta and speciosa	
2¼-inch	1 00
Petunias, 2¼-inch	2 00
Vinca Variegated, 2¼-inch	2 00
Stock plants of **Alternantheras, Ageratum, Coleus, Heliotrope** and **Petunias,**	2 50

MOSBAEK GREENHOUSE CO.

ONARGA, ILL.

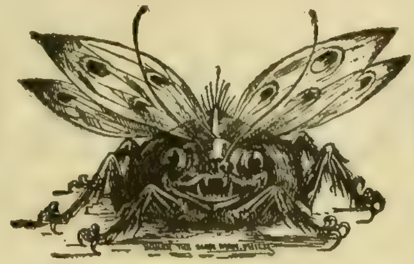
Davenport, Ia.

RECORD BEDDING PLANT TRADE.

Spring plant trade is about over and in looking over the records of past years the Tri-City florists are all of the one mind, that this year's business was the best and biggest in the history of the trade. Never in the writer's past experience has he seen every greenhouse so well cleaned out of plants as this spring and owing to the miserable and backward spring six weeks' work had to be accomplished in two. To say it kept the boys humping is putting it mildly; 16 hours were put in many a day and some days even more, but it is over and every one seems to be well pleased with the results.

The Tri-City Florists' Club sprang a pleasant surprise on their worthy ex-president, William Knees of Moline. The boys all gathered at the Rock Island Turner hall and Emil Boehm brought the victim of the surprise party to the hall in his new auto and ushered him into the hall where the boys were all seated to a fine spread waiting his arrival. William Knees was surely a surprised man but soon joined in the gaiety and thanked them for their good wishes. The party was in the nature of a farewell as Mr. Knees leaves this week for a three months' visit to Germany. Henry Gaethje presented Mr. Knees with a life preserver, which will not only keep him afloat but will provide him with food for two weeks. The life preserver was in the nature of a large pretzel, being about three feet in diameter.

Emil Boehm, superintendent of parks, is seen spinning around the parks in his fine new automobile. T. E.



LOOK! LOOK! LOOK! A big stock of

SURPLUS

Bedding Plants

Larger and better than ever before, to make room to place our large importations of Palms, Araucarias, Rubbers, Ferns, etc.

MUST GO AT STINGING LOW PRICES.

	Per 100
Geraniums, 4-in., Alphonse Ricard, large, double, dark red, one of the best: Jean Viaud, double, pink; S. A. Nutt; Berthe de Presilly, one of the best double, pink; Poitevine, Ivy-leaved, and other varieties	7 00
Cannas, King Humbert, 4 in	10 00
" Bismarck, Barrett, Poitevine, Black Beauty, Henderson, Austria, 4-in.	7 00
Dracena Indivisa, broad-leaved, imported stock, big plants.......50c to 75c each	
Scarlet Sage (or Salvia), the true Clara Bodman or Bonfire. Ours is the true medium tall genuine variety; deep red, brilliant flowers; a constant bloomer so much admired in the capital cities of Europe and America. The seeds of this famous variety were gathered by myself in Zurich, Switzerland, the home of Salvia. Price 4-in. pots.	7 00
Ageratum, best blue, dwarf varieties, 4-in., in bloom	7 00
3-in. pots	3 00
Heliotrope, best blue, dwarf varieties, 4-in. in bloom	7 00
Begonia Vernon, newest strain, the so well known dark variety. of our own importation. Seeds selected from the best specimen plants by myself during my trip in Switzerland and France. On that account these varieties thrive well in the hottest climate. exposed direct to the heat of the sun in July and August: a constant bloomer: therefore it is very valuable as a bedder, and in many instances takes the place of Geraniums. etc. 4-in. pots	8 00
Begonia Flambeau, or Octavie, sells on sight. valuable for window boxes and vases; their fine waxy foliage gives them a beautiful appearance. 5¼-in. pots ..$2 00 per doz.	
Fuchsias, in bloom. 4 in	7 00
Lantanas, assorted. 4-in	7 00
Nasturtiums, assorted. 4 in	6 00
Stock, German Ten Week	7 00
Vinca Variegata (Periwinkle), 4 in	12 00

SMALL PLANTS.

Petunias, California Giant, 3 in. pots	4 00
" Inimitable (dwarf) 2½-in	3 00
Verbenas, assorted. in bud. 2½-in	3 00
Coleus, Verschaffeltii. Golden Bedder and Queen Victoria. 2½-in. pots	3 00
Coleus, fancy leaved. 2½-in	4 00
Tagetes. or French Marigold 3-in	3 00
Centaurea Gymnocarpa or Dusty Miller 2½-in	3 00
Parlor or **German Ivy,** 2½ in	3 00
Salpiglossis, 2½-in. to 3-in	3 00
Lobelia Compacta. Trailing and Crystal Palace Blue	3 00
Lobelia, newest. double. Kathleen Mallard. 3-in	5 00
Kenilworth Ivy, 2½-in	3 00
Tradescantia, two best colors. 2½-in	$3 00

	Per 100
Thunbergia or Black Eyed Susan. 2½-in	3 00
Sweet Alyssum, Little Gem, 2½-in	3 00
Asparagus Plumosus, 2 in..$25 00 per 1000	3 00
" " 3 in	4 00
Cuphea or Cigar Plant 2½-in	3 00
Vinca Variegata (Periwinkle), 4-in	10 00
" " " 3½-in	7 00
" " " 3 in..$4 00 to	5 00
Cosmos, 4 best early varieties, made up 3 plants in a pot	4 00
Summer Chrysanthemums, 3 to 4-in. pots	5 00
Asters, Victoria, German, 5 best sorts	3 00
Honeysuckle, large, 6-in	50c
Solanum or Jerusalem Cherries (Multiflorum) 2 plants in a pot; newest improved strain: large berries and plenty of them	5 00
Rose Bushes from cold frames (not in bloom). Crimson Rambler, D. Perkins, Lady Gay, 5½ to 6-in. pots...... 25c to 30c each	
Ampelopsis Veitchi, 4-in. pots (small size). 10c	
Dianthus Chinensis, pink, 2½-in..3c each	

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants. **Araucaria Robusta Compacta, Glauca** and **Excelsa.** ☞ Florists, bear in mind there is no garden, lawn or porch, etc., in the summer that is complete without the Araucarias; therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7 8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old 5-6-7 tiers, 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation, 40c-50c. Can meet all applications.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c to 30c

Kentia Belmoreana and **Forsteriana,** big plants, only $1.25, $1.50, $2.00 each.

Just arrived, per steamer Manitou, from Australia, a big consignment of **Palms** and **Araucarias,**

Moonvine, Moonvine, Aschmann's world-wide known and celebrated **Moonvine** (Ipomœa Noctiflora) Price: 4-in. pots $12 00 per 100; 3-in., $8.00 per 100; 2½-in., $5.00 per 100.

10 at 100 rates. Please state if in or out of pots. All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., **Philadelphia. Pa.**

Importer, Wholesale Grower and Shipper of Pot Plants.

Mention the American Florist when writing

PETUNIAS

	Per 100
Seedlings from double seed, 2½-in. pots	$2 50
Asparagus Sprengeri, 2¼-in. pots,	2 00
Asparagus Plumosus, ready July,.	2 00

GERANIUMS

	Per 100
8 varieties, 3 to 3½-in. pots, my selection	$4 00
Smilax, ready July	1 25
Primroses, ready July 10	2 00

Pansy, new crop July 1, per oz.........$4 00

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

15,000 S. A. Nutt

Geraniums, strong, bushy plants in bud and blooom.

The Parker Greenhouses, Norwalk, O.

COLEUS In 10 Very Best Varieties.

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones, **$2 00 per 100; R.C., 75c per 100, 6.00 per 1000.**

ASPARAGUS SPRENGERI, extra strong, 2¼-in. pots, $2.00 per 100; $18.00 per 1000.

WALTER W. COLES, Kokomo, Ind.

Stock You Need Right Now

Phoenix Canariensis

A very desirable palm for the center of vases or for porch decorations. It will stand the sun better than any other palm. Price, for 8-in. tubs, 34 to 36-in. high, 12 to 14 leaves, $2.50 each.

Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

6-in.....$ 5.00 per doz. 8-in.....$ 9.00 per doz.
7-in..... 7.00 per doz. 9-in..... 12.00 per doz.

Asparagus Sprengeri Baskets

Size 10-in., and nicely furnished. Price, $12.00 per doz.

Asparagus Sprengeri

Price, 3-in. pots, 75cper doz., $6 00 per 100; 4-in. pots $1.50 per doz.; $12.00 per 100.

Adiantum Cuneatum

3-inch.....$1 00 per doz.; $ 8.00 per 100
4-inch..... 1.50 per doz.; 12.00 per 100

Aucuba Japonica Punctata

The Aucuba is especially useful for porch or garden decorations. Price for large plants, about 4 feet, planted in common tubs $3.00 each
The same, planted in square mission tubs, $5.00 each

Roses

Crimson Rambler, 5-in. pots, $2 00 per doz.
" " 6-in. pots, 3 00 per doz.
Hybrid Perpetual Roses in pots, $2.00 per doz.

Hardy Herbaceous Plants

We have on hand an assortment of Perennials in pots as quoted below, which can be shipped at any time. When planted from the pots they are sure to grow.

	Doz.	100
Achillea Ptarmica (the Pearl)	$1 00	$7 00
Chrysanthemum Maximum, (Shasta Daisy)	1 50	10 00
Delphinium Azureum (Larkspur, white)	1 00	7 00
" Chinensis (Blue)	1 00	7 00
" Formosum, (Larkspur)	1 00	7 00
Dianthus Barbatus, (Double Sweet William)	1 00	7 00
Dianthus Chinensis (Garden Pink)	1 00	7 00
Lobelia Cardinalis	1 00	7 00
Lychnis Chalcedonica (Jerusalem Cross)	1 00	7 00
Myosotis Palustris, (True Forget Me-Nots)	1 00	7 00
Rudbeckia Triloba	1 00	8 00
Veronica	1 00	7 00
Yucca Filamentosa, Adam's Needle) 2-in. pots		2 00

Send for complete price list of Decorative Plants, Hardy Trees, Shrubs and Herbaceous Stock.

Boston Fern Baskets

We have nice lot of 10-in. baskets, nicely furnished. Price, $1.00 each or $12.00 per doz.

Boston Ferns, from bench, ready for 5-inch, $2.00 per doz.; $15.00 per 100.

Bay Trees

	Per pair
12-in. tubs, 26-in. stem 18 in. crown, height from top of tub, 46 in	$12 00
14-in. tubs, 46 in. stem, 24-in. crown, height from top of tub 64 in	15 00
18 in. tubs, 48-in. stem, 30-in. crown, height from top of tub, 78 in	20 00
18-in. tubs, 48-in stem, 36-in. crown, height from top of tub, 80 in	25 00

Climbing Plants

Clematis Jackmani 6 in. pots, 35c ea.; $4 per doz.
" Queen, 6 in. pots 35c ea.; $4 per doz.
" Romeona 6-in. pots, 35c ea.; $4 per doz.
" Paniculata, 2-yr.....25c ea. $2.50 per doz.

Globe Boxwoods

We have a limited stock of these Globe boxwoods. They are a perfectly round ball, with no stem. They are most admirably suited for ledges or porches or any other place where formal effect is desired.

Price, in square mission tubs, $6 each.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

Just arrived the following:—C. Labiata, C. Mossiæ, C. Mendelii, C Harrisoniæ, C Granulosa, C Dowiana Dend. Nobile D Wardianum, D. Formosum Giganteum, D. Thrysiflorum, Oncidium Varicosum Rogersi Oncid Phymatochilum, Burlingtonia Fragrans. To arrive shortly: C Trianæ, C. Percivaliana C. Gaskelliana C Schroederæ.

CARRILLO & BALDWIN, Secaucus, N. J.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum, D. crassinode. D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.
Write us for prices.

Lager & Hurrell, Summit, N. J.

Splendid Plants. # ORCHIDS Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas:

Labiata, Mendelii, Mossiae, Gigas, Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Mountain Fastness to Grower. Send for Prices.

G. L. FREEMAN, 388 Appleton St., Holyoke, Mass.

PHALÆNOPSIS AND VANDAS.

Importations Received Every Two Months.

Phalaenopsis amabilis,
Phalaenopsis Schilleriana,
Phalaenopsis Sanderiana,
Phalaenopsis Stuartiana,
Vanda Sanderiana,
Vanda Batemannii,
Vanda Boxallii,
Dendrobium superbum.

We also receive many other varieties of orchids from the South Pacific and East Indies.

We respectfully solicit your inquiry in this line.

MacRorie-McLaren Company, 721 Crocker Building, San Francisco, Calif., U. S. A

Color of Fern Spores.

Fern students seldom trouble themselves about the color of fern spores though familiar with the changes of color that the sporangia go through in the process of ripening. The spores are by no means the rusty-brown objects that some may be led to think they are from a hasty glance at the sporangia or sori; in fact, although brown is the prevailing color, there is quite a range of color outside of this that the spores may adopt. According to "The Book of Fern Culture" the spores of the osmundas are bright green, in Pteris argyrea they are quite black. In most of the davallias the spores are yellow, in some of the gymnogrammas they are nearly black while in a few adiantums they are pale yellow. The shapes and markings of fern spores are subjects that as yet have been practically untouched though in allied plants, as the isoetes, these points may serve to distinguish species. A study of fern spores would be a most interesting pastime for those who have a compound microsocope.—Fern Bulletin.

Vincas

	Per 100
Extra strong 4-in	$10 00
" 5-in	15 00
Dracena Ind., 4-in	10 00
Smilax, 2-in.	2 25
Geraniums, S. A. Nutt. 3-in.	4 00

A fine lot of transplanted **Asters**, all colors and varieties, $5 00 per 1000.

F. C. RIEBE, Florist. **Webster, Mass.**

Miscellaneous Plants

Alternantheras, 4 varieties. $2.50 per 100.
Bouvardias, pink, white, scarlet. 2-in. pots. $3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in. pots. $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants. $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2 00 per doz.
Geraniums, best varieties from 3 in. pots, $4.00 per 100· 4-in. pots $6 00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground. $1.00 per doz.
Lobelia, Double blue. 2½-in. pots $3 00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias. 4 varieties; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadri color; Golden Feather Cupheas, Snapdragon, Lantanas, Smilax, Asparagus Sprengeri.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**

$1.50 per 100.

Geraniums, double Grant, Nutt, Bruant, Rose, Viaud Perkins etc., 2-in. $1.50 per 100.
Heliotrope, Salvia, Vinca, Var. **Coleus, Alternanthera, Stevia,** Var., 2-in. $1.50 per 100.
Paris Daisy, yellow, white. **Swainsona,** alba, **Stevia,** green, **Asparagus,** Sprengeri. 2-in., 2c.
Cannas, 4 and 5-in., 5c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea,** 75c: **Paris Daisy,** white and yellow; 2-in. 2c. **Swainsona,** alba, $1.00; **Dbl. Petunia,** 10 kinds, $1.00: **Alternanthera,** 3 kinds 50c: **Coleus,** 60c., $5 00 per 1000: **Artillery Plant, Stevia,** Green and Variegated, 75c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

Geraniums..

4-inch, $4.00 per 100; mostly S. A. Nutt and Queen of the West.
Vinca, var. and green, 4-in. medium size $4.00 100. Cash with order.

CHARLES H. BUENNING, Easton, Pa.

Geraniums..

5000 S. A. Nutt, Mme. Barney, La Favorite,
In 2¼ and 2½-inch pots
Strong, healthy stock.

WOODWORTH & PARKER,
GENEVA, OHIO.

Nashville.

TRADE GOOD.

Trade in this city has had a good lift from June weddings, of which there are not a few. A few days ago Miss Sharples, of the Joy Floral Co., made a striking bouquet for a beautiful widow who was committing matrimony for the second time. It was made of white lilac and pink roses. The white lilac is out of season here and hence its feathery beauty was the more appreciated, and the bouquet called forth many encomiums to its beauty. The same firm made a beautiful center piece, for the bridal table at another wedding, of cattleyas and lily of the valley. The bride carried a bouquet of the same beautiful blossoms. Around the basket on the table were small silver loving cups filled with lily of the valley. Between the cups were silver candelabra, and from one to the other, in graceful arrangement, was garlanded asparagus. The entire wedding plan was elaborate, an improvised altar being made of palms and lilies, which were very effectively arranged.

On Decoration day a wagon load of candidum lilies were brought in from the Hermitage gardens and sold for the benefit of the association. These lilies grow very luxuriantly in this old fashioned garden, and have been there for half a century. M. C. D.

Bedding and Miscellaneous Plants

	Per 100
7,000 Vincas,	
Variegated, 2-in.	$3 00
" 3-in.	6 00
" 3-in., strong	8 00
10,000 Geraniums,	
S. A. Nutt and other standard varieties, 2-in.	3 00
" " " " " 3-in.	6 00
" " " " " 4 in.	8 00
Mme. Salleroi, 2-in.	3 00
Asparagus Plumosus, 2-in.	3 00
" 3-in.	5 00
Begonias, in variety, 2-in.	2 00
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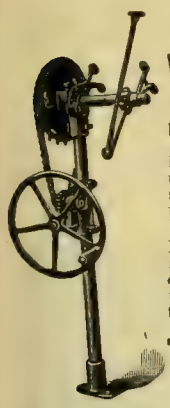

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Asparagus Sprengeri, 2¼-in., $2 per 100; $18 per 1,000. W. W. Coles, Kokomo, Ind.

ASTERS.

Field-grown asters: Trego in mixed colors of white, shell pink and rose. Rosbach's selected lavender and purple, mixed and dwarf white, separate, $2.50 per 1,000. For the last several years we have tried most of the asters offered with the view of obtaining an ideal florists' strain. Last year we acquired the Trego and found it the most satisfactory of all; the nearest approach to the chrysanthemum. Cash with order please. A. & G., Rosbach, Pemberton, N. J.

Asters, Rosbach's commercial varieties, strong plants, mixed colors, 40c per 100. Cash. Mrs. Edward Hayden, Greenview, Ill.

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Aucuba Japonica punctata, 4 ft., in tubs, $3 each; in square mission tubs, $5 each. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

AZALEAS.

Azaleas. Jacs Smits, Naarden, Holland.

BAY TREES.

Bay trees, standard or tree shape, 20 to 22 ins., 18 to 20-in. crown, $4 each; 25 to 27 ins., 20 to 22-in. crown, $4.50; 36 to 38 ins., 24 to 26-in. crown, $6; 44 to 47 ins., 20 to 22-in. crown, $6; 45 to 47 ins., 30 to 32-in. crown., $10; 45 to 47 ins., 36 to 38-in. crown, $12. Pyramidal shaped, 5 ft., 20 to 22-in. diam., $7.50; 6 ft., 22 to 24-in., $9. Imperials, 48 to 50 stem, 30-in. crown, $15 each. Vaughan's Seed Store, Chi. & N. Y.

Bay trees, 12-in. tubs, 26-in. stem, 18-in. crown, 46 ins., $12 per pair; 14-in. tub, 46 stem, 24 crown, 64 ins., $15 per pair; 18-in. tub, 48 stem, 30 crown, 78 ins., $20 per pair; 18-in. tub, 48 stem, 36 crown, 80 ins., $25 per pair. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

2,000 bay and box trees in all sizes; pyramid and standard. Write for list. Julius Roehrs Co., Rutherford, N. J.

Bay trees. Bobbink & Atkins, Rutherford, N. J.

BEDDING PLANTS.

Bedding plants: Geraniums, red, 4-in., 6c. Vincas, 4-in., 8c. Coleus, yellow, red and G. Beauty, 2½-in., 2c. Alternantheras, red and yellow, 2½-in., 2c. Acalypha tricolor, 3-in., 4c. Iresine, 2½-in., 3c. Petunias, Star and fringed, 3-in., 3c. Verbenas, 3-in., 3c. Centaurea gymnocarpa, 3-in., 3c. Lobelia, 3-in., 2½c. Salvias, 3-in., 2½c. Begonia Vernon, 4-in., 6c; 2½-in., 3c. Achyranthes, 3-in., 3c. Asters, 3 vars., 2¼-in., 2c. Mignonette, 2½-in., 3c. Dracæna indivisa, 6-in., 25c. Heliotrope, 4-in., 6c. Rose geranium, 4-in., 6c. Honeysuckle, 4-in., 15c. Clematis paniculata, 4 and 5-in., 15c. Snapdragon, 2½-in., 2c. Ageratums, 3½-in., 3c. Cannas, 4-in., Pennsylvania, Austria, Italia, B. of Poitevine, $6 per 100. Chas. A. Knapp, 7634 Corson St., Chestnut Hill, Pa.

Bedding stock: Cannas, 3-in., our selection, $5 per 100. Geraniums, Nutt and other standard vars., 2-in., $3 per 100; 3-in., $6; 4-in., $8. Vinca Variegated, 2-in., $3 per 100; 3-in., $6; strong, $8. Mme. Salleroi geraniums, 2-in., $3. Asp. plumosus, 2-in., $3; 3-in., $5. Begonias in., var., 2-in., $2. Caladium esculentum, 3 to 4, $1; 5 to 7, $2. Cyperus, 2-in., $3; 3-in., $5. Coleus, mixed, $2. Echeveria secunda glauca, $4. Fuchsias, 2-in., $3. Heliotrope, $3. Impatiens Sultani, $3. Lantanas in var., $2.50. Myrtle, hardy, 3-in., $4. Roses, Bride, Chatenay, Maid, 2-in., $3; 3-in., $5. White Ramblers,, 2-in., $6; 3-in., $8; 4-in., $20. Sanseveria, 3-in., $5. Sage, Holt's Mammoth, $3. Selaginella, 3-in., $4. Verbenas, $3. I. N. Kramer & Son, Cedar Rapids, Ia.

Bedding plants, from 2½-in. pots, $2.50 per 100; Alyssum Carpet of Snow; Fuchsias, 4 vars.; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia, California Giant and Star; Ageratum Inimitable; Feverfew, Little Gem; Coleus Golden Bedder, quadricolor; Golden Feather; cupheas, snapdragons, Lantanas, Smilax, Asparagus Sprengeri. C. Eisele, 11th and Westmoreland Sts., Phila.

Bedding plants Geraniums, dbl. Grant, Nutt, Bruant, Rose, Viaud, Perkins, etc., 2-in., $1.50 per 100. Heliotrope, salvia, vinca var., Coleus, alternantheras, Stevia var., 2-in., $1.50 per 100. Paris daisy, yellow, white Swainsona alba, Stevia, green; Asparagus Sprengeri, 2-in., 2c. Cannas, 4 and 5-in., 5c. Rooted cuttings prepaid per 100: Cuphea, 75c. Paris daisy, white and yellow, 2-in., 2c. Swainsona alba, $1. Dbl. petunia, 10 kinds, $1. Alternantheras, 3 kinds, 50c. Coleus, 60c per 100; $5 per 1,000. Artillery plant, Stevia, green and var., 75c. Byer Bros., Chambersburg, Pa.

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Begonia President Taft, young plants ready in June, $4 per doz.; $25 per 100 J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.

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Begonia Vernon, 4-in., $8 per 100. Erfordi, 4-in., $8. Flambeau, 5¼-in., $2.50. G. Aschmann, 1012 W. Ontario St., Phila.

Begonia Gloire de Lorraine, 2½-in., $15 per 100; $140 per 1,000. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Begonia, Vernon and Leminosa, $5, $6 and $7 per 100. Rose Hill Nurseries, New Rochelle, N. Y.

Begonia Gloire de Lorraine. Vaughan's Seed Store, Chicago and New York.

Begonia Rex, 2½-in., $4 per 100. Storrs & Harrison Co., Painesville, O.

BOUVARDIAS.

Bouvardias, pink, white, scarlet, 2-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

BOXWOOD.

Box trees, pyramid shaped, 2½ ft., $2 each; $3.75 per pair; 4-ft., $4 each; $7 per pair; 5-ft., $7 each; $13 per pair. Standard or tree shaped stem 22-24, crown 22-24, $4.50 each; $8 per pair; stem, 18-22, crown, 30-32, $5.50 each; $10 per pair; stem 22-24, crown, 32-34, $7 each; $12.50 per pair. Bush shaped, 15-18 ins., 40c each; $4 per doz.; 18-22 ins., 60c each; $6 per doz. Vaughan's Seed Store, Chicago and New York.

Box trees, 3 to 3½ ft., $21 per 10; 3½ to 4 ft., $26; 4 to 5, $31. Bush form, 8 to 12 ins., $1.50 per 10; 1 to 1½ft., $2.50; 1½ to 2 ft., $6.50; 2½ to 3 ft., $20; 3½ to 4 ft., specimens, $8 per pair. Wagner Park Conservatories, Sidney, O.

Boxwood, globe, in square mission tubs, $6 each. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Boxwood, pyramidal, 3 ft., $2 each; 4 ft., $3; 4½ ft., $4. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Boxwood. Bobbink & Atkins, Rutherford, N. J.

Boxwood. Jacs Smits, Naarden, Holland.

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Bulbs, tuberoses, mammoth, $12 per 1,000; 1st size, $7; special size, $5; medium, $3.50. Caladiums, 5-7 ins., $15. Vaughan's Seed Store, Chicago and New York.

Bulbs, Lilium Harrisii, Freesia Purity. J. M. Thorburn & Co., 33 Barclay St., New York.

Gladioli, Shakespeare, Isaac Buchanan, Octoroon, Pactole, May; lilies and other bulbs. E. S. Miller, Wading River, N. Y.

Bulbs, tuberous begonias, single and double tuberoses. Stokes' Seed Store, 219 Market St., Philadelphia.

Caladium esculentum, started plants, $6 per 100. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Freesia Purity. Booking orders now, Rudolph Fischer, San Gabriel, R. F. D., Calif.

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Cannas, Beaute de Poitevine, Buttercup, Souv. d'Antoine Crozy, Pierson's Premier, Mlle. Berat, L. Patry, Florence Vaughan, etc., started plants, 3½-in., $6 per 100; dormant roots, $3 per 100; $25 per 1,000. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Cannas, dry roots, $1.75 per 100: Italia, Cleveland, Austria, Egandale, Marlborough, America, Shenandoah, Penna., Black Beauty, Kate Gray. J. H. Dann & Sons, Westfield, N. Y.

Cannas, J. D. Eisele, Egandale, Alph. Bouvier, Mme. Crozy, F. Vaughan, 3-in., $4 per 100. Jean Tissett, Pres. Myers, Louisiana, Pennsylvania, 3-in., $5. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Cannas, Cleveland, Henderson, Vaughan, 4-in., $7 per 100. Crabb & Hunter Floral Co., Grand Rapids, Mich.

Cannas, Wawa, new Wm. Saunders, Venus, Rosea Gigantea Mt. Blanc, King Humbert, etc. Conard & Jones Co., West Grove, Pa.

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Carnations, Enchantress, Lady Bountiful, $2 per 100. Rose Pink Enchantress, Victory, White Perfection, Winsor, Aristocrat, $2.50 per 100. Perennial Gardens Co., Toledo, O.

Carnations, Victory, Beacon, Enchantress, Rose Pink Enchantress, White Enchantress, White Perfection, Winsor, Lawson, Harlowarden, Eli Cross, 25 Monroe St., Grand Rapids, Mich.

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Carnation O. P. Bassett, 2½-in., $10 per 100. Bassett & Washburn, 76 Wabash Ave., Chicago.

Carnations, leading vars. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia.

Carnations, Mary Tolman, Sangamo, Conquest, $12 per 100; $100 per 1,000. Chicago Carnation Co., Joliet, Ill.

Carnations, Sarah Hill, 2½-in., $3 per 100. Lloyd, $2.50. Poehlmann Bros. Co., Morton Grove, Ill.

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Carnation Lucille, $12 per 100; $100 per 1,000. A. F. Longren, Des Plaines, Ill.

Carnation Shasta, $12 per 100; $100 per 1,000. Baur & Smith, Indianapolis.

Carnations, leading vars. F. Dorner & Sons Co., LaFayette, Ind.

Carnations. Wood Bros., Fishkill, N. Y.

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Dusty Miller, 2¼-in., $2 per 100. West End Greenhouses, Lincoln, Ill.

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Not small, weak, runty stock grown under benches, but the kind that brings back dollars for pennies:

	R. C. Per 100.	R. C. Per 1000.	2½-inch. Per 100.	2½-inch. Per 1000.
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Earliest October Frost. We have extra fine stock of this variety....	$2.50	$20.00	$3.00	$25.00
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Strong, clean, healthy cuttings. Well rooted. NOW READY.

	Per 100.		
White:		Monrovia	2.00
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Plants in soil that have been topped; fine for growing pot plants or 3 or 4 flowers to one plant:

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Estelle	1.50	Maj. Bonnaffon..	1.50
Polly Rose	1.50	R. Halliday	1.50
Robinson	1.50	Pink:	
Wannamaker ..	1.50	Maud Dean	1.50
A. Byron	1.50	Rosiere	1.50
C. Touset	1.50	Red:	
T. Eaton	1.50	Black Hawk	1.50

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The Belfast Chrysanthemum, The Queen of Winter. The most profitable 'mum in sight for Christmas and later. Easily sells for one-third more than Nonin or any other variety. Size, color and keeping qualities is what does it. Can be had all through the winter by propagating and planting late. They are fine to follow early 'mums; of the very largest size. Color, light pink to cream white. Perfectly healthy and easy to grow. A seedling of W. H. Chadwick and Western King. Extra large cuttings from soil or sand, $2.50 per dozen; $18 per 100, prepaid. Willis E. Hamilton, Belfast, Me.

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Chrysanthemums, Oct. Frost, Polly Rose, J. Nonin, Touset, W. Bonnaffon, Col. Appleton, Yellow Bonnaffon, Dr. Enguehard, Intensity, M. Dean, $1.50 per 100. Chadwick, $2.50 per 100. T. Eaton, Monrovia, $2 per 100. Pompons: Mrs. Beu, $2.50 per 100. Garza, Diana, Antonio, $2 per 100. Nellie C. Moore, $1 per doz.; $6 per 100; $50 per 1,000. N. C. Moore & Co., Morton Grove, Ill.

Chrysanthemums, 2¼-in.: Ivory, Byron, Mrs. Shaw, Polly Rose, Touset, Bonnaffon, Mrs. Jones. Yellow: Bonnaffon, Appleton, Monrovia. Pink: Pacific, Maud Dean, Dr. Enguehard, Minnie Bailey, $3 per 100; $25 per 1,000. Golden Glow, $4 per 100; $30 per 1,000. Brenneman Floral Co., Harrisburg, Pa.

JUST THE CREAM, Golden Glow, Early Snow, Miss Clay Frick, Beatrice May, and the grand Xmas pink, J. Rosette, strong topped back, $4; R. C., $3. Monrovia, Shaw, Enguehard, Frost, Touset, Money Maker, Buckbee, Eaton, Nonin, strong, 2½-in., $2.50; R. C., $1.50. Cash. W. J. Olds, Union City, Pa.

If you want money for Xmas, plant J. Rosette and lots of it. Also Golden Glow and Miss Clay Frick, strong, 2½-in., $4; R. C., $3. Monrovia, Shaw, Enguehard, Frost, Touset, Money Maker, Buckbee, Eaton, Nonin, strong, 2½-in., $2.50; R. C., $1.50. Cash, please. The Union City Greenhouse, Union City, Pa.

75,000 transplanted chrysanthemum cuttings ready to bench, Estelle, Kalb, Touset, Monrovia, Cremo, Halliday, Whilidin, Bonnaffon, Y. Jones, Bailey, Pacific, Enguehard, Cullingfordii, Black Hawk, $1.25 per 100; $12 per 1,000. T. W. Baylis & Sons, West Grove, Pa.

Chrysanthemums, 2½-in. pots: Oct. Frost, $2.50 per 100; $20 per 1,000. Kalb, Touset, A. Byron, Wanamaker, Monrovia, Oct. Sunshine, Appleton, $2 per 100; $15 per 1,000. Nonin, $2.50 per 100; $20 per 1,000. J. D. Thompson Carnation Co., Joliet, Ill.

Chrysanthemums, Golden Glow, Pacific Supreme, White Cloud, 2½-in., $25 per 1,000; R. C., $18. October Frost, 2½-in., $20 per 1,000; R. C., $12. Virginia Poehlmann, $4 per 100. Golden Eagle, $5 per 100. Standards, midseason and late, 2½-in., $20 per 1,000; R. C., $12. I. M. Rayner, Greenport, N. Y.

Chrysanthemums, 2½-in., $3 per 100; $25 per 1,000. Chas. H. Totty, Madison, N. J.

Chrysanthemums, Glory of Pacific, Ivory, Polly Rose, Golden Glow, Oct. Frost, Robert Halliday, $3 per 100; $25 per 1,000. Pacific Supreme, $4 per 100; $35 per 1,000. Virginia Poehlmann, $5 per 100. Elmer D. Smith & Co., Adrian, Mich.

Chrysanthemums, rooted cuttings. Selection of 40 varieties, the cream of the commercial sorts. Write for list and prices. S. J. Reuter & Son, Inc., Westerly, R. I.

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Chrysanthemums, leading varieties. Elmer D. Smith & Co., Adrian, Mich.

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Cineraria maritima candid., 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

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Clematis Jackmani, 6-in., 35c each; $4 per doz.; Queen, 6-in., 35c each; $4 per doz.; Romeana, 6-in., 35c each; $4 per doz.; Paniculata, 2-yr., 25c each; $2.50 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

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Coleus, Golden Bedder, Verschaffelti, Queen Victoria, 2½-in., $3 per 100. Fancy leaved, $4. G. Aschmann, 1012 W. Ontario St. Philadelphia.

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Coleus 70c per 100; $6 per 1,000. S. D. Brant, Clay Center, Kans.

Coleus, R. C., 8 vars., 75c per 100. N. C. Moore & Co., Morton Grove, Ill.

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Crotons, 3-in., $3 per doz.; 5-in., $6; 6-in., $9. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

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Cyclamen, 3-in., $7 per 100; 4-in., $15; 5-in., $25. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

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Dahlias, pot plants, standard kinds, $2 per 100 up to $6 per 100. Jack Rose, Virginia Maule, Big Chief, 50c each; $35 per 100. R. Vincent, Jr., & Sons Co., White Marsh, Md.

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Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

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Dracæna indivisa, 6-in., $5 per doz.; 7-in., $7; 8-in., $9; 9-in., $12. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

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Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

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Ferns, Adiantum cuneatum, 3-in., $1 per doz.; $8 per 100; 4-in., $1.50 per doz.; $12 per 100. Boston fern baskets, 10-in., $1 each; from bench, 5-in., $2 per doz.; $15 per 100. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns, Boston, 6-in., 50c each. Piersoni, 6-in., 50c; 8-in., $1 each. Scottii, 2¼-in., 5c. Elegantissima and Whitmani 2¼-in., 5c: 3-in., 10c. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 doz. F. R. Pierson, Tarrytown-on-Hudson, N. Y.

Jardiniere ferns, 6-7 best varieties, $3.50 per 100; $30 per 1,000. Rose Hill Nurseries, New Rochelle, N. Y.

Ferns, Nephrolepis Scottii, 5-in pots, $2.50 per 10; $20 per 100. Wagner Park Conservatories, Sidney, O.

Ferns, Adiantum Farleyense, strong, thrifty plants, from 3-in. pots, $15 per 100. Thorn Hedge Greenhouses, Newtown Square, Pa.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Fern balls, 7-9-in., $2.50 per doz.; $18 per 100; 5-in., $1.75 per doz.; $12.50 per 100. Vaughan's Seed Store, Chicago and N. Y.

FICUS.

Ficus elastica, bushy plants in tubs, 4 ft., $3.50 each; 6-in. pots, 3½ ft., $9 per doz. F. R. Pierson, Tarrytown-on-Hudson, N. Y.

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Fuchsias, 4-in., $6 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Fuchsias, 2-in., $3 per 100. N. C. Moore & Co., Morton Grove, Ill.

Fuchsias. Geo. A. Kuhl, Pekin, Ill.

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60,000 geraniums from 2½ in. pots, strong, clean and healthy; 20,000 B. Poitevine (salmon); 15,000 Nutt, 15,000 Henderson (scarlet); 5,000 Viaud (pink); 5,000 Buchner (white), $2 per 100; $18 per 1,000. The W. T. Buckley Co., Springfield, Ill.

Geraniums, S. A. Nutt, 4-in., thrifty stock in bloom, $6 per 100. Salleroi, 2½in., $2.50 per 100, extra good. A few of the other varieties. Henry F. Piggott, 4248 Pearl Road, Cleveland, O.

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Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

Geraniums, good asst., 2-in., $2 per 100; 3-in., $3; our selection 10 good kinds, $15 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Geraniums, S. A. Nutt, 4-in., $6 per 100. Salleroi, 3-in., $3 per 100. All fine stock. Special prices on large orders. Greenville Floral Co., Greenville, Mich.

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Geraniums, dbl. Grant, 3½-in., $8 per 100; assorted, 3½-in., $8. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Geraniums, Nutt, La Favorite and ivy leaf, 6-in., $6 per 100. Cash. L. J. Rowe, Titusville, Pa.

Geraniums, 8 vars., 3-3½-in., my selection, $4 per 100. Jos. H. Cunningham, Delaware, O.

Geraniums, 2½-in., $2 per 100; 300, $5. Ivy and Salleroi 2½-in., $2 per 100. J. C. Schmidt, Bristol, Pa.

Geraniums, best vars., 3-in., $4 per 100; 4-in., $6. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

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Geraniums, 4-in., $4 per 100. C. H. Beunning, Easton, Pa.

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Hollyhocks, best single and double strain. Plants to flower, $8 per 100; $75 per 1,000. Rose Hill Nurseries, New Rochelle, N. Y.

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Ivy, hardy English, 2-in., $2 per 100. Parlor ivy, 2-in., $2 per 100; 3-in., $3. R. Vincent, Jr., & Sons Co., White Marsh, Md.

English ivy, 4½-in., 3 to 4 ft., 15c each. N. C. Moore & Co., Morton Grove, Ill.

Ivy, English, 3½-in., $12 per 100. F. R. Pierson Co., Tarrytown, N. Y.

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Smilax, $1.25 per 100. Jos. H. Cunningham, Delaware, O.

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Vinca var., 2½-in. and 4-in $2.50 and $8 per 100. J. S. Hennon & Son, Wampum, Pa.

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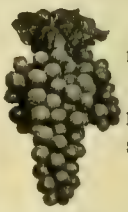

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LUTHER BRUNDAGE, Billings, N. Y., October 25, 1908.

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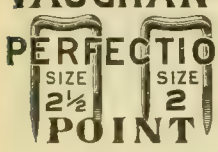

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Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets. CHICAGO.

STENZEL-GLASS CO.

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—Specialists in—

GREENHOUSE GLASS

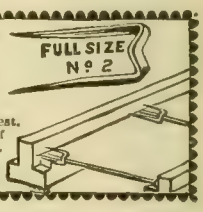
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE

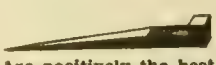
Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address

JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.

Holds Glass Firmly
See the Point
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.





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Never Rust
Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞. **40c** per lb., by mail 16c extra; 7 lbs. for **$2.50** 15 lbs. for **$5.00** by express. For sale by the trade
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert. Baum & Beatty Sts., Pittsburg.

Evansville, Ind.

Business for Decoration day was at least 15 per cent better than ever before and would have been better still if the street car strike had not been on. Peonies and carnations took the lead. Lilies, daisies and roses sold well at the regular Decoration day prices. The retailers had all they could do. Plant trade is nearly over with about the usual amount of bedding done. Field carnations are doing well.

June 1 marked the grandest wedding in southern Indiana. Miss Frances Ingle of Oakland City to Dr. Wm. Bebb of California. Miss Ingle is the daughter of David Ingle, one of the large coal mine owners of this section of the state. The decorations were of asparagus, smilax, roses, sweet peas, daisies and peonies well lit with a profusion of colored electric light globes. The decorating was done by the Wm. Blackman Floral Co. G. W.

BRISTOL, CONN.—Terry & Peck are at their annual work of putting the park of the passenger station in order for the summer.

MORNINGSIDE, MASS.—L. W. Acheson of Hamblin street has met with an accident to his hand, caused by cranking his automobile.

BOOKS FOR FLORISTS

The following books should be in every florist's and gardener's library. A good book on any subject in which you are specially interested is worth years of experience and should be kept convenient for reference at all times.

Send prices quoted and we send the books.

THE AMERICAN CARNATION (C. W. Ward).—A complete treatment of all the most modern methods of cultivating this most important flower. Illustrated. $3.50.

THE HORTICULTURISTS' RULE-BOOK (L. H. Bailey).—Contains information valuable to all those engaged in any branch of horticulture. Illustrated. 312 pages. 75 cents.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent).—The most complete and authentic work on the subject. The pages number 826, with over 600 illustrations. $6.00.

THE ROSE.—Its cultivation, varieties, etc. (H. B. Ellwanger).—A complete guide of the cultivation of the rose, together with the classification of all the leading varieties. $1.25.

HOW TO MAKE MONEY GROWING VIOLETS (Saltford).—This is by a practical grower who has made a success of the business. No grower of violets can afford to be without it. 25 cents.

GREENHOUSE CONSTRUCTION (Taft).—It tells the whole story about how to build and heat a greenhouse, be it large or small, and that, too, in a plain, easily understood, practical way. It has 118 illustrations. $1.50.

GINSENG (Kains).—At the present time, when so much interest is taken in ginseng, it will be interesting to peruse this volume, which tells all about the plant in a way that all may understand. The 144 pages are freely illustrated. 50 cents.

YARD AND GARDEN (Baker). An excellent book treating on the method of making home gardens attractive. The author covers a wide range of subjects in quite an able manner and the book is full of interest for the amateur gardener; 140 illustrations, 420 pages, $2.

SUCCESS IN MARKET GARDENING (Rawson).—Written by one of the most prominent and successful market gardeners in the country, and who has the large t glasshouses for forcing vegetables for market in America. Outdoor and indoor crops are treated. Illustrated, $1.00.

LANDSCAPE GARDENING (Maynard).—The development of landscape art within the past few years compels the wide awake florist to keep posted on this branch of the business. The many suggestions of this book will be found helpful every business day. It contains 338 pages, 165 illustrations. $1.50.

THE GARDEN MONTH BY MONTH (Sedgwick).—A well classified list of hardy herbaceous and other plants arranged for each month in the year. Water plants, vines, ferns, foliage plants and others all have separate chapters devoted to them and a color chart is an unusual and extremely useful addition to a most carefully compiled and excellent book. Finely illustrated. $4.30.

Reservoir Vases

For Cemeteries and Parks

THE BEST MADE

The reservoir supplies the plants with moisture by capillary attraction.
Not necessary to water plants oftener than once in ten days.
We make nearly 100 styles, ranging in price from $6.00 to $10.00 each.

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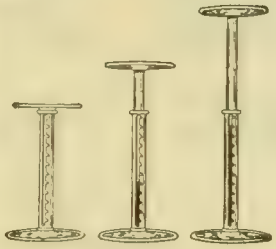

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Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, Lansdowne, Pa.

PHILADELPHIA OFFICE:
Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

Sterling Iron Reservoir Vases

Chairs, Settees, Hitching Posts, Etc.

Complete Catalogue and Discounts Upon Request.

The Sterling Emery Wheel Mfg. Co., TIFFIN, OHIO, U. S. A.

HEDGES, WINDBREAKS, ETC. (Powell).—A treatise on the planting, growth and management of hedge plants for country and suburban homes. A volume of 140 pages, with twenty-two illustrations. 50 cents.

THE VEGETABLE GARDEN (Vilmorin-Andrieux).—The best and most complete book on vegetables ever published. There are 782 pages and hundreds of illustrations in this English edition, edited by Wm. Robinson, the noted English horticultural writer. $6.00.

HOW TO LAY OUT SUBURBAN HOMES (Kellaway).—Contains many useful hints and practical plans as to improving and laying out suburban homes and grounds. There are 112 pages, 38 halftone illustrations and 15 plans and maps. $2.

DAFFODILS, NARCISSUS AND HOW TO GROW THEM (A. M. Kirby).—Contains all that is really worth knowing about these most popular of spring bulbs, written from the standpoint of American conditions. Illustrated, 233 pages; postpaid, $1.21.

SCOLLAY'S

Plant Sprinkler Putty Bulb.

VAUGHAN'S SEED STORE, CHICAGO NEW YORK

CELERY CULTURE (Vaughan).—The important subject of celery culture is thoroughly covered in this illustrated pamphlet of 59 pages. The florist raising young plants of celery and those who grow the plants to maturity will alike find it valuable. 50 cents.

THE GOLDFISH (Mulertt).—A number of florists find goldfish an attractive and paying addition to their business. The best advice is given in every department of the subject, including construction and care of the parlor aquarium, in this volume of 160 pages, handsomely illustrated. $2.00.

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Is well worth the careful consideration of every man who grows flowers.

You Can Profit

By reading our Booklet on the subject. For full information write

E. H. HUNT, Sole Agent, 76 Wabash Ave., **Chicago**

THE ALLIED TRADES

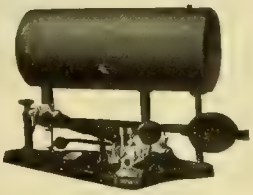
Largest Private Range in America.

George Sykes, Chicago manager of Lord & Burnham Co., New York, has returned to Chicago after being absent three weeks in New York, where he secured a contract for about $70,000 from J. B. Duke, president of the American Tobacco Co. for houses to be erected at Somerville, N. J. This will be the largest private range of glass in the United States and will be built with Lord & Burnham Co.'s improved curved eaves (no gutters or plates will be used at the eave line).

Mr. Sykes had all kinds of competition to meet, but he succeeded in getting the contract at an advance of about $12,000 above the next lowest bidder. Mr. Duke visited quite a number of places to examine other constructions before he placed his order, as he wanted the best. Lord & Burnham Co. built Mr. Duke a large show range about eight years ago so he has had ample time to try out the construction.

The new greenhouses will be equipped with all the latest improvements such as curved eaves, indestructible cast iron benches and self-oiling ventilating gear. The houses will be heated by hot water, using 3½-inch cast iron pipes and 2-inch wrought iron. Where side ventilators are required Lord & Burnham Co.'s improved wall ventilators will be used. These are made of iron frames and fitted with galvanized wire to keep out birds, squirrels, etc. A large workroom, 25x60 feet will be built in the center of range fitted with a private office, etc. A special feature of this building will be a fruit room fitted up after the English style. The rose and carnation houses will be of L. & B. Co. shadeless ridge type. This style of house is now being used by most of the leading eastern growers and is a great improvement over the full span or three-quarter span houses. The range will consist of 24 compartments in addition to the passage connection. The following is a complete list of the houses and compartments: One American Beauty rose house, two tea rose houses, two carnation houses, two gardenia houses, four melon houses, two orchid houses, two fern houses, two vineries, one peach house, one nectarine house, one tomato house, one orangery, two propagating houses, one chrysanthemum house. The cellar will be large enough to hold about 150 tons of coal, besides boilers, cool storage and mushroom house. All foundation walls below grade will be of stone concrete, the outside walls above grade will be of field stone to match the present buildings.

For The Greenhouse



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Return Steam Traps

The present improved **Morehead Automatic Return Steam Traps** are the result of twenty years' use and development in thousands of heating and steam plants throughout the world. The "Morehead" was the **original** and has at all times been the **standard** by which the comparative values of other traps have been measured. They've stood the test for 20 years, and have gained the well-done" of all users. Will you join the ranks? **Catalogue on request.**

MOREHEAD MFG. CO., 1047 Grand River Avenue, **Detroit, Mich.**

Mention the American Florist when writing

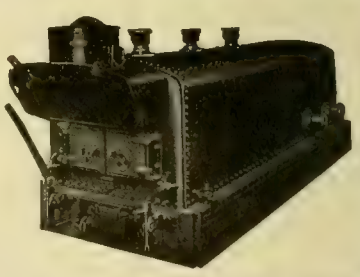
THE KROESCHELL BOILER

is the only perfect

HOT WATER BOILER.

We manufacture every type of boiler in use, but our greenhouse boiler, because of its special construction, possesses many advantages over any other type.

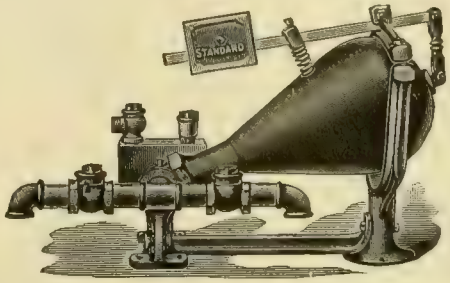
Prices and catalogue on application.



KROESCHELL BROS. CO.

45 Erie Street, CHICAGO.

Mention the American Florist when writing



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

E. HIPPARD, Youngstown, O.

Mention the American Florist when writing

FALL RIVER, MASS.—Paul de Nave is now cutting a good crop of Cattleya Mossiæ, C. Gaskelliana and C. gigas Sanderiana. He has now a house 25x100 feet full of orchids chiefly cattleyas, dendrobiums and oncidiums.

DEDHAM, MASS.—R. & J. Farquhar & Co. of Boston have bought of Helen W. Bradlee 27 acres of land at the corner of Washington and Elm streets, which they will immediately utilize for nursery purposes.

The Superior Improved Internal Fired Boiler
Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use: shipped on skids ready for installation. Specially designed for greenhouse use.

Investigate before buying.

Catalogue and Prices on Application.

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A WIRELESS MESSAGE — BUY YOUR BUILDING MATERIAL — WOOD — IRON — GLASS FROM FOLEY

IF YOU WANT BIG RESULTS

BUY FROM WHO RUNS THE IN THE YOU WILL WEAR A CAUSED BY FROM GROWN IN

PHIL FOLEY FACTORY CITY OF CHICAGO. SMILE PROFITS CROPS HOUSES

WESTERN, ARTESIAN AND CAMPBELL ARCS 25" TO 26" STS CHICAGO

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

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3525 Shields Ave. **CHICAGO**

Greenhouse Building.

Chicago—Peter Reinberg, four houses each 27½x300 feet.

Wilmington, Del.—H. P. Potter, one greenhouse.

Brooklyn, N. Y.—Geo. Schuneman, one greenhouse.

Rhinebeck, N. Y.—F. Marquet, one greenhouse.

Cheyenne, Wyo.—C. H. Garwood, one greenhouse.

Lebanon, Mo. Ernst Beck, one greenhouse, 27x175 feet.

West Lebanon, N. H.—S. P. Franch, one greenhouse.

Lexington, Ky.—A. J. Keller Estate, one greenhouse 30x200 feet.

MCKEESPORT, PA.—J. W. Butler has opened a flower store on Fifth avenue, opposite the hospital.

Boilers, Tubes, Flues, Etc.,

at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter. be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates: 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler. 60 horse power. 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads: with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!

A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.: some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters. Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted: 50 4½-in. tubes: 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted: 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers Other sizes can be furnished at specially low prices. Write for complete list.

5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

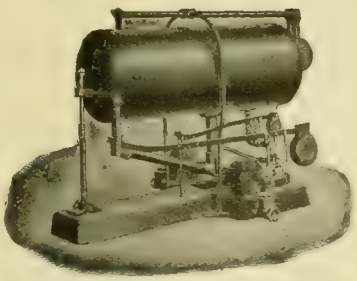
SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy: greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., **35th and Iron Streets CHICAGO.**

Mention the American Florist when writing

INSTALL A "DETROIT" Return Trap



"Detroit" Return Trap. (Patented)

And You Buy a Guarantee.

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one-tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

Dept. A. F. **DETROIT, MICH.**

CHRIS. PFEIFFER BOILER CO.,

66-68 Michigan Street, CHICAGO.

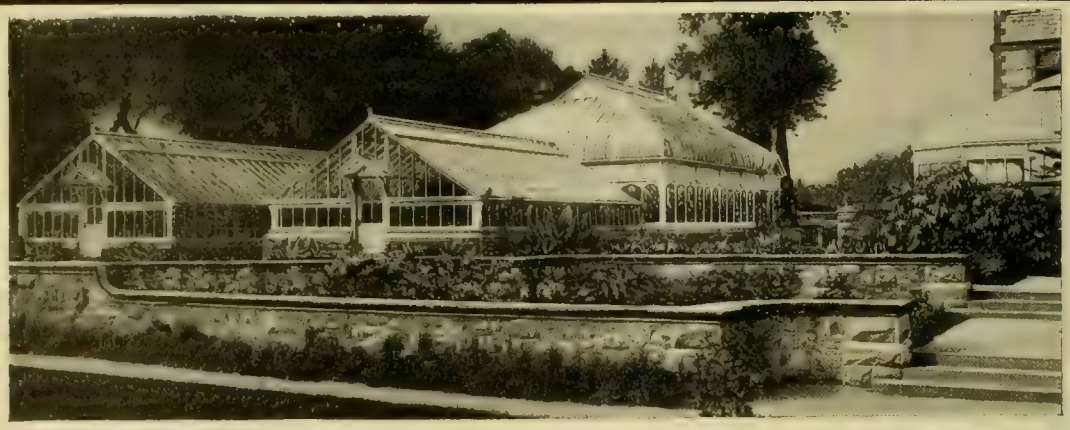
We build a special steel hot water boiler shipped ready for operation. No brick required.

Phones; Main 4361 . 4399.

Steel Return Tubular Boilers

The Most Economical Type of Boiler for Greenhouse Heating. Highly recommended by well-known florists.

JOHNSTON HEATING CO., **138 E. 31st St., NEW YORK.**



WOULD you put the ordinary, unarchitectural kind of greenhouses right on your terrace within 100 feet of your residence? Of course you wouldn't. Neither would or did this owner. If you want to combine both the ornamental and the practical in your house, the Sectional Iron Frame construction is **the construction**—and you know it.

LORD AND BURNHAM CO.
IRVINGTON, N. Y.
New York Philadelphia
Boston Chicago.

Washington.

MARKET OVERCROWDED.

Business has decreased somewhat during the past week and the market is overcrowded. The Confederate Memorial day exercises were commemorated at a section in Arlington cemetery reserved by the government for this purpose, and many of the retailers had orders for various floral tributes for this occasion.

CLUB MEETING.

The June meeting of the Florists' Club took place at Gude's hall on Monday evening; owing to the absence of President Kramer, Vice President John Robertson officiated. Geo. J. Hess of Anacostia was admitted to membership in the club. The outing of the bowling team will take place June 25. Chesapeake Beach is the selected place. Wm. F. Gude praised the team for the good work done and congratulated the members on the many prizes they had captured. Mr. Gude further stated that he hoped we would have a repetition of our regular monthly outdoor meetings. He promised that he would be glad to repeat the outing which the florists enjoyed at his summer residence last year. After the adjournment Mr. Gude extended an invitation to the members to inspect his fine supply of roses and some other things which help to make life worth living. A vote of thanks was extended to him for his hospitality extended at both the previous and present meetings.

NOTES.

Z. D. Blackistone furnished the wreath used to decorate the graves of the unknown at Arlington cemetery. Geo. C. Shaffer received the order for the southern cross, which is similar in shape to the St. Andrew's cross, excepting that there are 13 stars on the red surface. It is surrounded by a wreath of Cycas revoluta. Three hundred bunches of flowers were used to decorate the graves of the Confederate unknown. Geo. H. Cooke executed the work. Mayberry & Hoover sent two wagon loads of flowers.

Many handsome floral tributes were sent to the funeral of Professor Bishop, who was a famous composer, although afflicted with blindness.

Geo. H. Comly reports better trade at his temporary quarters than he had at the original store. G. S.

CHILLICOTHE, O.—The Chillicothe Floral Co. has landed the contracts for the planting on the B. & O. railroad between Parkersburg and Cincinnati and the cemetery at Frankfort.

New Catalogue Now Ready

Our new 1909 Catalogue is now ready to be sent out, and you should have one of these. The book will be sent postpaid on request to anyone.

You should get our prices on heating pipe before you place any order.

JOHN C. MONINGER CO.
113 E. Blackhawk St.,
CHICAGO

Fresno, Calif.

In his desire to see beautiful parks in this city, George C. Roeding has spared no money to accomplish this result and as a consequence the new portion of Roeding's park, consisting of 47 acres which was donated to the city, has been all planted out this spring. A year ago last March Mr. Roeding stated that he would donate $2,000 worth of plants for use in this new section, the contributions to be given at different intervals, not exceeding five years altogether.

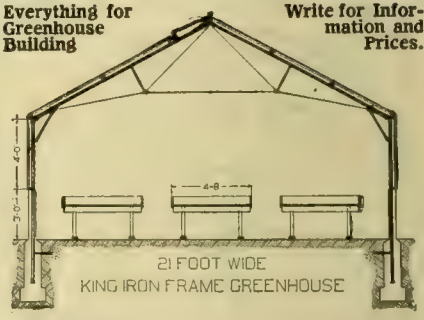
The planting of the new section was started this spring and the park commissioners found it necessary to secure more than the portion which was to be given them this year. It was here that Mr. Roeding showed his desire for beautiful show places. Not only did he donate the $2,000 worth of plants this year, but he almost doubled this donation, and when all had been figured out, it was found that the plants given by Mr. Roeding and set out in the park this spring, amounted in value to over $3,600.

IOWA CITY, IA.—James Aldous, Sr., a pioneer florist of this city, will sail next month for England.

WEST HOBOKEN, N. J.—Adolf E. Asmus is suing his wife for divorce and the vice-chancellor advised a decree at the hearing in the court of chancery May 25.

Everything for Greenhouse Building

Write for Information and Prices.



In Widths From 14-ft to 54-ft.
WITHOUT POSTS.

King Truss Sash Bar Houses
Iron Gutters and Eaves
Iron and Cypress Benches
Ventilating Machinery

King Construction Co.
NORTH TONAWANDA, N. Y.

PECKY CYPRESS

Any Size or Length.

It is the Ideal Lumber for Greenhouse Benches.
LASTS FOREVER.

THE FOLEY MFG. CO.
26th and Western Ave., CHICAGO

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT
76-78 Wabash Ave., CHICAGO

A JEWISH HOME WEDDING DECORATION.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, JUNE 19, 1909. No. 1098

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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Address all correspondence, subscriptions, etc., American Florist Co., 324 Dearborn St., Chicago.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Seed Trade Convention Number Next Week.

American Peony Society.

Sixth Annual Convention and Exhibition at Queens, N. Y., June 11-12.

OFFICERS FOR THE ENSUING YEAR:

B. H. Farr, Reading, Pa., President.
C. J. Maloy, Rochester, N. Y., Vice-Pres.
A. H. Fewkes, Newton H'lands, Mass, Sec'y.
J. H. Humphreys, Germantown, Pa., Treas.

An Interesting Convention.

The sixth annual convention of the American Peony Society and exhibition originally announced for June 8-9 was postponed to June 11-12. Even at this later date there were complaints from growers that, on account of the backward season, their flowers were not out. It is to be regretted, considering the large hearted hospitality of President Ward and his most amiable wife, that more growers did not find it possible or convenient to exhibit. We offer no criticism on what was exhibited. It was no fault of the exhibitors that others did not show their enterprise, or, for the reasons already stated, were unable to exhibit. The unavoidable absence of President Ward, on account of illness, cast a shadow on the event. It must be stated, however, that Manager Brown and Mr. Matthewson of the carnation range, acquitted themselves nobly in their efforts to make both exhibitors and visitors feel at home. Carriages from the Cottage Gardens met every train coming from New York at Queens station and all comers were transported free of charge. In addition to this luncheons were served on each day of the exhibition.

Latest Portrait of C. W. Ward.

Elected Hon-President of Am. Peony Society.

It was very fortunate that, in the absence of President Ward, another good man happened along. This was Professor John Craig of Cornell University. We must not be misunderstood. All the members of the Peony Society are good men and women, but, in this as in other societies, a presiding officer who can have business done with neatness and dispatch and please everybody as Prof. Craig did deserves more than he is ever likely to receive. Prof. Craig had just come down from the nurserymen's convention at Rochester and being imbued with the spirit of conventions and likewise a man who only talks when he has something to say, he made a fine impression. The selection of the next meeting place has been left to a committee composed as follows: Secretary Fewkes, R. T. Brown, Cottage Gardens; and W. A. Peterson, Chicago.

At a preliminary meeting held early on July 11 Prof. Craig was selected as presiding officer and Messrs. Fewkes, Thurlow and Bryant were elected judges. At 4:30 p. m. the first regular business session of the convention was held. In calling the convention to order Professor Craig made an eloquent appeal for harmony and systematic

work in the interest of the society. In the absence of Pres. Ward the secretary read his address as follows:

President Ward's Address.

It is with extreme regret that I am compelled to announce my inability to be with our beloved society at its fourth annual meeting and to also announce that hereafter I shall be unable to take any laborious part or position with your or any other horticultural body. My connection with and labors among horticulturists have been most agreeable, pleasant and instructive and I would much like to continue them, but the condition of my health during the past year warns me that I must cut off all detail work possible and save my strength for tasks that I cannot avoid. I wish, however, to assure you all that my sympathy and support will always be heartily exerted in aiding all horticultural societies, not only in America but in other lands as well, in the grand works they have undertaken.

The work which the American Peony Society was organized to perform has been but fairly begun; some errors and omissions have likely been made, but these should not discourage you all in continuing the work already planned nor in planning additional work that experience shows to be needful, but we all should rather work with renewed vigor and a determination to accomplish all that which we set out to accomplish.

With the data at my command I am at this time unable to make many suggestions of value, but the work already mapped out should be continued to the end that American peony growers should have at least an authentic list of named varieties that will cover those most desirable for general culture on our continent, and that duplicate names should, as far as practicable, be eliminated from that list. Your nomenclature committee should be composed of able practical men who are willing and able to give it the necessary time, observation and attention.

ESSAYS.

There should be provided at each annual meeting two or three able essayists, who will cover subjects of interest to peony growers, both amateur and professional. Among the subjects that will likely prove of interest might be mentioned: "Cultivation of the Peony," "Propagation of the Peony," "Originating New Varieties by Cross Fertilization," "Commercial Peony Growing," "The Value of the Peony for Cut Flowers," "The Peony for the Amateur," "The Peony as a Decorative Plant," "The Use of the Peony in Landscape Gardening," "Peony Colors" (pointing out shades of color that are not desirable and not worthy of cultivation), "The Peony at Exhibitions" (illustrating best methods for keeping, shipping and staging peony blooms at exhibitions), and several other subjects that will suggest themselves as time passes.

THE CORNELL EXPERIMENTAL PLOT.

The Cornell experiment has not proved as successful as might be desired owing very largely to the unfavorable nature of the soil and the lack of continued culture and fertilization and the condition of the plants at the station is not such as to enable a correct study of the varieties nor to enable one to judge as to the value of different varieties. Some means should be adopted to provide for proper culture, fertilization and favorable said conditions, for until peonies can be observed under fairly favorable conditions the observations and the deductions therefrom will not likely prove of great general value.

ANNUAL EXHIBITIONS.

These should be held in localities where an attractive and effective exhibition of peony blooms may be assured, and at such seasons as would enable nearby growers to stage fine displays to good advantage. Substantial premiums should be offered under such conditions as will attract extensive entries and thereby assure fine displays and rules and regulations should not be so technical or severe as to discourage or drive away exhibitors:

Arthur H. Fewkes.

Secretary American Peony Society.

INTRODUCING NEW VARIETIES.

While the society should encourage the growers of new varieties and give ample recognition to all improvements of merit, it should carefully avoid the endorsement of the commercial value of any new peony, and its award should be of such a character as would prevent the use of the society's name in advertising worthless varieties or varieties that may be practically duplicates of kinds already existing in commerce.

In conclusion I desire to express my great gratitude to the members of the society for the uniform kind and courteous treatment they have one and all accorded me and for the generous assistance all have rendered the society as well as for the enthusiasm manifested in our work. I feel that I ought to apologize for the little time I have been able to devote to the duties of the office with which you have thrice honored me and to offer as the only explanation lack of sufficient strength to attend to them properly and at the same time care for the business duties which have crowded upon me and which could not be avoided. I feel certain that any one of your members whom you may choose as my successor will more ably fill the office than I have been able to do, and that under his guidance our society will prosper and accomplish the needed work. You all have my best wishes for success collectively and individually and I desire to express to each and every one of you my warmest friendship and sincerest wishes for a long, successful and happy career.

The secretary's report showed that the membership of the society was 54, with four honorary members. Mention was made of the death of E. V. Hallock, a member of the society. L. D. Batchelor spoke of the work being done at Ithaca and recommended that the society appoint a committee to cooperate with the officials of the college in relation to nomenclature and other matters. F. R. Pierson spoke in approval of Mr. Batchelor's suggestion and a committee was appointed. B. H. Farr, chairman, made a strong appeal for the support and co-operation of members of the society. On motion the convention adjourned to meet June 12 at 10:30 a. m.

Election of Officers.

At the Saturday morning session officers were elected as follows:

B. H. Farr, Reading, Pa., president.

C. J. Maloy, Rochester, N. Y., vice-president.

J. H. Humphreys, Germantown, Pa., treasurer (re-elected).

A. H. Fewkes, Newton Highlands, Mass., secretary (re-elected).

The treasurer's report showed a balance on hand of $483.89.

Professor Sanders of Hamilton College, Clinton, N. Y., was elected a director to serve three years, succeeding Theo. Smith. On the suggestion of Prof. Craig, C. W. Ward was elected honorary president of the society. New members were admitted as follows: L. H. Harsatt, W. P. Dykes, Henry Hicks, J. J. Starr and Emma Embray. The committee on resolutions reported a vote of thanks to Mr. Ward for his hospitality and generosity, with regrets as to his delicate state of health and hope for his speedy restoration. In the report a resolution was also embodied expressing regret and sorrow for the death of E. V. Hallock.

President-elect Farr made a brief address, pledging his best efforts for the good of the society and asking the co-operation of members. It is but simple justice to state, in closing this report, that, leaving out the flowers entered for competitive exhibition, the growing and flowering peonies at the Cottage Gardens were by themselves a magnificent exhibit. A field of peonies, 8 or 10 acres in extent, comprising the best of all varieties, is not often seen. The show at Cottage Gardens was a fine education for the members of the Peony Society.

Awards.

Commercial Classes, Double.

Largest and best collection of varieties, one flower each.—B. H. Farr, Reading, Pa., first; Geo. H. Peterson, Fair Lawn, N. J., second.

Collection of 12 best and most distinct varieties, six flowers each.—Geo. H. Peterson, first; B. H. Farr, second.

Collection of varieties in various shades of rose pink, three flowers each.—No awards.

Collection of varieties, salmon and flesh colored, three flowers each.—B. H. Farr, second.

Collection of white varieties, three flowers each.—Geo. H. Peterson, first; B. H. Farr, second.

Collection of crimson varieties, without stamens, three flowers each.—Geo. H. Peterson, first; B. H. Farr, second.

Collection of crimson varieties, with stamens, three flowers each.—B. H. Farr, first.

Collection of tricolor varieties, including flowers with guard petals, collarette and center petals of different colors, three flowers each.—B. H. Farr, first; Geo. H. Peterson, second.

Fifty blooms, white.—S. G. Harris, Tarrytown, N. Y., first.

Fifty blooms, dark pink or rose.—S. G. Harris, first.

Amateur Classes.

Best and largest collection of white varieties, one bloom of each variety.—Albert Lahodny, gardener to Theodore A. Havemeyer, Hempstead, N. Y., first.

In these classes there was practically no competition, Albert Lahodny, in addition to the above, taking first prizes in several other classes.

Special Mention.

B. H. Farr, collection of peonies; John Lewis Childs, Floral Park, N. Y., iris and gladiolii; Geo. H. Peterson, collection of peonies.

SECRETARY FEWKES' report appears on page 1058.

THE RETAIL TRADE

Good Newspaper Advertising.

One of the principal points to study in newspaper advertising is to catch the eye of the reader and drive home the point it is intended to emphasize at once, and on the accompanying reduced reproduction of an advertisement in the Kansas City Journal by the Alpha Floral Co., Kansas City, Mo., this has been done. The carnation is there, the word "free" (always a drawing card) is plain, and the reader at once looks to see what he is to get free. His attention once gained the rest is easy, and the next step is to the reading matter which accompanies it and which, as it is explanatory of the whole deal, we quote. The whole comprises a neat little advertising stunt that is suggestive to others:

CARNATIONS FREE TODAY.

"Today is the Alpha Floral Company Carnation day and every caller at the store, 1105 Walnut street, will be given a choice carnation in order to commemorate the seventh anniversary of this aggressive business house. It seems indeed a short time since the young man, Alpha Elberfield, started selling flowers on Petticoat lane, but the customary great gap between a humble flower stand and his present fine establishment has been rapidly bridged only by a remarkable degree of business ability and perseverance. The motto, 'We strive to please,' backed up by sincere effort to do so, has spelled success in large letters."

Orchid Bride Bouquets.

SEE SUPPLEMENT WITH THIS ISSUE.

The wide-spread popularity of cattleyas somewhat overshadows the many other beautiful orchids in general decorations, but in bouquet making, if a graceful and telling effect is to be produced, other varieties and species must be added. Cattleyas of the labiata section alone, no matter how well arranged, are inclined to be flat in effect and there is also a good deal of sameness in their color. Old time florists will recall in this connection the pretty Oncidium flexuosum with its light, airy scapes of pure clear yellow flowers on wiry spikes and individual flower stalks so light that they were almost invisible at a little distance. It was seen in almost every bouquet and epergne decoration in the old days, and it is doubtful if there is a more elegant little flower in existence for the purpose today.

Other oncidiums that occur to mind as suitable for this class of work—that is to stand up from the body of a bouquet, are O. incurvum, a pretty pink flower, O. phymatochilum (dancing girls), O. ornithrynchum and its white variety and O. altissimum and O. sphacelatum, the two latter bright yellow with brown markings. All these oncidiums last extremely well, are very bright and telling and easy to handle. For associating with cattleyas some of the larger flowered yellow oncidiums are fine, such brightly tinted species as O. tigrinum and its varieties, O. Marshallianum, O. varicosum and the pretty little O. concolor being among the best of these. The phalænopsids, or moth orchids, are exquisite for the purpose, especially P. amabilis, P. Schilleriana, P. Stuartiana and P. grandiflora. These beautiful species, obtained fresh and used while still in good condition, are among the choicest and most suitable species for the purpose in the entire orchid family.

The epidendrums are to some extent looked down upon by orchid growers, yet this genus comprises some elegant species for cutting. Bright scarlet orchids are by no means common, but in Epidendrum vitellinum and its variety majus we have flowers only rivaled in their richness of coloring by the glowing Sophronitis grandiflora, the brightest colored commercial orchid in existence. Lælia harpophylla and L. cinnabarina are other orchids possessing this color. Harking back to the epidendrums, what could be more beautiful than E. bicornutum a waxy white flower, lasting long in perfect condition, but, unfortunately, not easy to grow and, for this reason, not likely to ever become very popular? In their season the deciduous calanthes are among the best and showiest orchids for cutting and well suited for use in bouquets. C. vestita has white flowers with red (rubra oculata) or yellow (lutea oculata) blotches in the center. C. Veitchi has pink self-colored flowers, and there are many varieties of each. These beautiful species and hybrids are at their best during November and December.

There are hosts of other orchids, dendrobiums, cypripediums, vandas cœlogynes, odontoglossums, miltonias and many others all more or less useful for the purpose indicated and flowering at all times of the year. Retailers who have this class of work on hand should get after their growers and try to get them in line to keep up a regular succession of these flowers. It is easily done if they will take the trouble to do it, and the demand, already existing, would in a year or two be doubled. For use with orchids no fern or other green can compare with Adiantum Farleyense. The soft green of the fronds and its full yet graceful appearance seems to suit the somewhat neutral tints of most orchids, especially the soft mauves and yellows, and it should be used freely. Small sprays of Asparagus plumosus, stemmed and used among the smaller flowers are also exquisite and very fine fronds of Adiantum gracillimum placed over cattleyas and other large flowering orchids are like a light veil over a beautiful face, partially concealing while it heightens its beauty. This latter must not, of course, be overdone or the effect will not be good.

GOOD NEWSPAPER ADVERTISING.
A Kansas City Retailer's Anniversary Announcement.

Narcissus Albus Plenus Odoratus.

This was the most generally used bloom for Whitsuntide decoration in England. Combined with Tulip Gesneriana the effect was just right—scarlet below the white. The fragrance is almost too much for church decoration. Not for some years has the double white narcissus been in better form, the rain just coming right for it. S.

Needs the Florist.

ALTHOUGH 10 YEARS IN THE TRADE.

Some time ago I sent $1.00 for subscription to THE FLORIST. You wanted reference to prove me in the trade. I need the paper badly. Have been in the business for 10 years and herewith mail you references. If you are still skeptical write 'em.

C. O. HASSERIES.

THE ROSE.

COQUINA, a new rose pink single variety, is highly spoken of in the European papers and received an award of merit at the recent Temple show in London.

KEEP the weeds down in the rose benches, especially where young stock is planted. Green-fly and other insect attacks often have their origin on the weed growth.

Cultivating Roses.

ED. AMERICAN FLORIST:—

Are roses cultivated just after being planted or all the season through?

INEXPERIENCED.

The various cultural details have to be kept up all through the season. See the notes that appear regularly in THE FLORIST for particulars.

Treatment and Culture of Roses.

A paper read by Isaac Kennedy, West Park, O., before the Detroit Florists' Club, June 7.

CONTINUOUS FLOWERING OF ROSES.

When your honorable fellow member, M. Bloy, informed me a few days ago I was scheduled for a paper on rose culture, for June 7, it nearly took my breath away. I was under the impression that the question of rose culture had been thrashed out so thoroughly by our most expert growers that there was little left unsaid. However, I will do my best and endeavor to point out a few little items on growing tea roses that have come under my observation within the past few years; notably that of blooming tea roses continuously on benches for a number of years without drying off or resting. Mine have been growing and blooming continuously for over six years, practically without rest, and they are better this year than they were the first year planted. We get along so well together that I intend to keep them in at least one year more, which means a few more extra strips under the benches; as it is, we have the braces now about a foot apart.

These few remarks are not intended for culture on a large scale, except in regard to the cuttings; furthermore, it is not intended for those who grow American Beauty, Richmond and other hybrid teas, as the method of culture for these differs from that of the tea varieties. These remarks are intended for the small grower who grows a few teas for his own use or wholesales in a small way and cannot afford to plant every year.

WOOD FOR CUTTINGS.

The first and most important item is the selection of the cuttings. Most growers select cuttings from flowering wood; I don't; I prefer the little blind shoots that spring out from the flowering wood, commonly called heel cuttings, or, as a friend of mine remarked, "Those little devils with the hundred eyes."

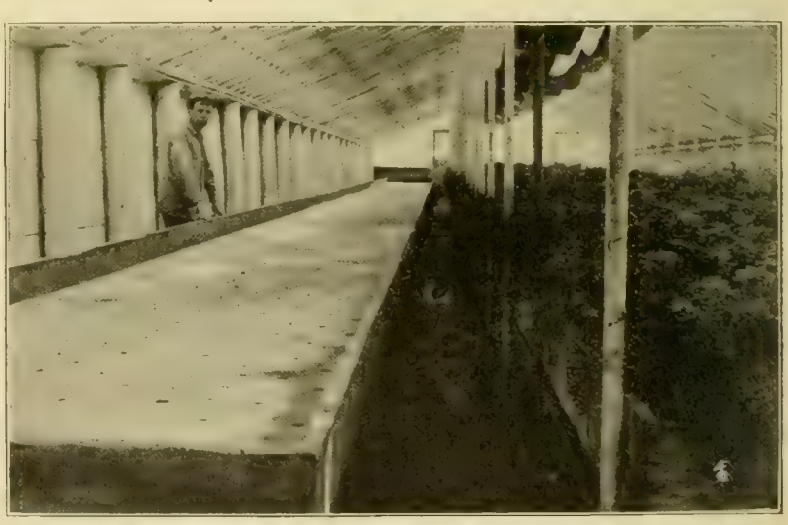
When taking the cutting, trim the foliage off a little and cut away the jagged end that still adheres to the shoot, as nearly square as possible; put them in the cutting bed (any good bank sand will do), give them plenty of water with a bottom heat of about 60° and top heat a few degrees less, and in three or four weeks these will be as fine a bunch of cuttings as one could wish to look at, with roots standing out like an open parachute, and as stiff as the ribs in a $10 umbrella. Be sure to get the cut as square as possible; in no case ought a tea rose cutting be cut on a slant. The cuttings ought to be put in the sand not later than December for use the following year. When rooted, pot into 2½-inch pots and keep on the cool side until spring, by which time the plants will have become almost pot-bound. Instead of giving them a shift into a larger pot, plant them out in the open ground, taking care not to disturb the ball, and in a short while you will soon see those little "lads with the hundred eyes" assert themselves and make splendid stocky, hardy plants, which, when lifted and planted in the houses in July or August, will be a thing of beauty and a joy all winter.

OUTDOOR GROWN PLANTS.

The outdoor treatment has built up a good strong constitution which will better stand the forcing treatment during the dull months than those grown inside entirely. The idea in keeping the ball intact when planting out is to obviate the danger of serious shriveling when transplanting into the benches. When planted they will require frequent syringing until established. The question of soil, to my way of thinking, does not cut so much of a figure as formerly; any good strong soil will do, not necessarily sod. It is the after treatment that counts. My reason for making the above assertion is the fact that my roses have not had a change of soil for six years, with the exception of an inch or so of top dressing every fall.

In regard to watering, I would say but always after the beds have received a thorough watering with clear water. We also add a little lime about once a month to the water, which has a tendency to keep down eel worm, if there are any indications of it in the soil. In regard to temperature: If the soil is very heavy the plants will stand a night temperature of 60° and a day temperature of a few degrees higher. If the soil is inclined to be light or gravelly, I would not advise higher than 56° at night, as the constitution is more liable to weaken in a light soil than a heavy one. The bone meal we apply about once every two weeks and work it into the soil. We never use a mulch of any kind on the beds, as it is impossible to determine what part of the bed is dry or wet, when a heavy mulch is used.

Be sure and keep down green-fly and spider; syringe the plants when they need it; even if the day should be cloudy, syringe early and the plants will be alright by evening, with a little extra steam heat and air. Don't wait for a bright day and let the spider get the best of you. Keep the above treatment up all winter and when April comes we must begin to prepare the plants for their summer siege. The following is our way: We gradually lower the night temperature in the houses until the plants will stand 10° below the normal without danger to the proper development of the flowers. Then we cut away all surplus wood, keep them a shade on the dry side until the new breaks appear, after which we give a thorough watering with an application of blood liquid and off they go again on their summer cruise. During the summer months we apply less blood and more bone meal; about August we rest them up



THE WITTBOLD CEMENT BENCH.

the plants should never suffer at any time for the want of it. To know they have had enough is to see it run through the bench like through a sieve. It is the continual little dabs that sour the soil, never thorough waterings.

FEEDING.

The question of feeding comes next. We apply nothing but blood, pure bone, (not the steamed variety), and liquid manure. The blood we apply in liquid form along with the cow manure, for about 10 days, go over the thinning out process, and, as I said before, apply about an inch or so of fresh soil, tie them down and start them off again for the winter. The shoots that come from the bottom of the heel cuttings will make practically a new plant each year. In conclusion I would say that it is absolutely necessary to keep a little sulphur on the pipes at all times during the winter months, and be careful of drafts on the plants during summer.

Bench Construction for the Rose House.

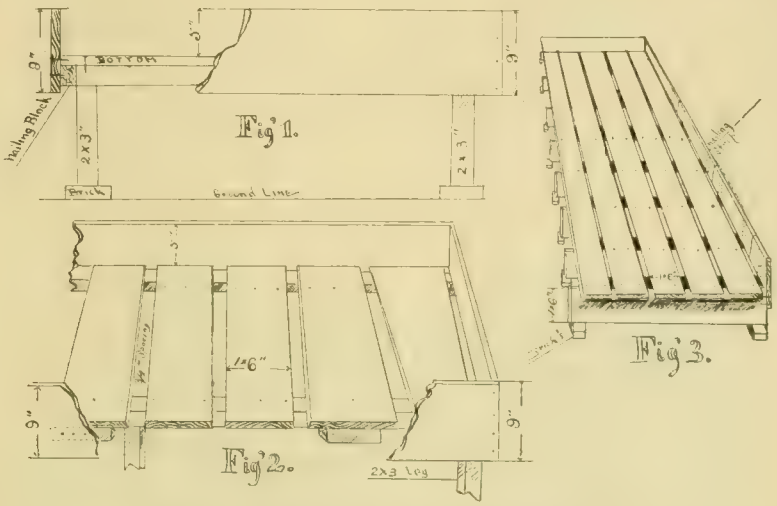
TWO USEFUL WOODEN BENCHES.

In order to have our benched stock of winter-forcing roses do their very best, it is essential to have properly constructed benches under them and, in the illustration here presented, we have two styles of bench construction which we have found to be satisfactory all around and a practical method of building insuring plenty of drainage and so constructed as to give long life to the lumber. In Fig. 1 is shown the raised bench that can be made any height desirable. The face boards are 9x1-inch cypress, dressed on outside; the bottom boards are 1x6-inch, spaced ¾ of an inch apart; the legs are 2x3 Georgia pine or cypress, spaced four feet apart on centers, resting on brick foundations at the bottom, raised so that the wood does not touch the ground. Small cement piers under each leg 5 inches square makes the best foundation, and a stringer laid on these of 2x3 scantling, laid flat side down, running parallel with the top stringers, will greatly add to the appearance of the benches, as well as strengthen them, and they will last longer.

It will be noticed that in Fig. 1 there is a nailing block coming between the face board and stringer; these blocks are placed at the joints and spaced four feet apart, and they help very much to stiffen up the facing. The bottom boards extend beyond the stringer two inches, and the nailing blocks being about eight inches long, cut from 2x3 stock, when nailed on the stringer the 2-inch way, come fair with the bottom boards so that the sides can be nailed to both. Fig. 2 represents the side elevation of this bench. The sides of both benches. Fig. 1 and Fig. 3 extend five inches above the tops of the bench bottom, allowing in other words five inches of soil to plant in which we have found to be about right if packed quite firmly when being filled.

Fig. 3, for a low bench, is very economical and durable, the bottom being supported by 1x6-inch cypress resting on small piers or bricks; the edges of the supports cover so little wood when the nailing surface is only an inch that the life of the bench is greatly prolonged, and to gain head room we find this style of bench very useful. The supports should extend ¾ of an inch beyond the two outside bottom boards, to allow for drainage at the sides, and by nailing a strip on each side of the supports at the joints of the facing and eight feet apart, as shown by the dotted lines (Fig. 3), this will keep the sides from warping and stiffen the construction throughout.

Benches of this construction we have had last seven years with slight repairs, and these benches were constructed of common cypress. If pecky cypress had been used undoubtedly the life of the benches would have been extended several seasons longer. The benches should be washed thoroughly after removing the soil, and as soon as they become dry apply a coat of lime wash while hot; otherwise the benches will decay much more rapidly. One advantage the raised bench (Fig. 1) has over the other is that it allows for bottom heat, as the pipes can be easily supported under them by nailing a crosspiece 1x3 inches at every other post, the posts, of course, being opposite each other, the heat keeping the bottom boards much drier. At the same time the low bench has been constructed so as to absorb the least possible amount of moisture, and both will be found to give good results in every way. E.



BENCH CONSTRUCTION FOR THE ROSE HOUSE.

Two Useful and Lasting Wooden Benches.

Concrete Benches for Roses.

Without a doubt concrete benches are here to stay. As far as the writer has had opportunity of observing in other places, there has been no single instance when they have been put in and have not turned out satisfactorily while, as far as our own experience counts, we have had perfect results with them. There are always to be found people who will run down anything new no matter how good it is. Such people say that the wooden bench was good enough for their fathers and should be good enough for them as it has always grown good stock. But the man who thought his old boat was safe was drowned. There are circumstances under which the wood bench may be chosen especially when lumber is cheap and to hand while freight rates on cement are high. But we think we are well within the mark in saying that in the great majority of cases concrete benches are better, because more lasting and needing no repairs. Certainly good roses, quite as good as the best produced on wood benches, can be grown on concrete and after all this is the main point at issue.

There has been quite a little discussion among growers as to the merits of a movable bench over a permanent one. Readers of Dickens will remember Mr. Dick's reply to a criticism on his room to the effect that one "couldn't swing a cat round." The chronicler with whose work King Charles' head so interfered very naively remarked that he "didn't want to swing a cat." And so it is with the cement or concrete bench. With a properly planned bench system under a well constructed, lasting roof the probability is that the benches once fixed will remain in place for a number of years, as long as the house lasts. Why then go to more expense in erecting temporary benches or benches in movable sections? Personally, all things considered, and unless there were very good reasons for a movable bench, we would be strongly in favor of a concrete bench made in permanent form, for all large and medium sized establishments.

COMMERCIAL.

House for American Beauty Roses.

ED. AMERICAN FLORIST:—

Will you be so kind as to tell me what height a greenhouse should be if it is 40 feet wide and 150 feet long to get the best results out of the north benches? Please state how high the side walls should be, also the height of ridge. Also tell me the number of 2-inch pipes it will take to heat it with hot water for American Beauty roses and best width for benches.

A. B.

The height of the greenhouse will vary somewhat with the arrangement of the beds or benches. In most cases it would answer if the walls are six to eight feet above the level of the walks and, for a house of this width, the ridge should be 18 to 20 feet high, according to the height of the walls. In arranging the piping it will be well to use two 3-inch mains upon the walls and four 2½-inch flows distributed through the house. It will then require twenty-four 2-inch pipes for the returns. Six can be upon each of the walls to be supplied by the 3-inch mains. The others can be in four coils of three pipes each, and connected with the 2½-inch flow pipes. A house 40 feet wide will accommodate six beds four and one-half feet wide. It will be well to have two of the walks two feet wide, but 20 inches will answer for the others. L. R. T.

ALLENTOWN, PA.—E. Kroninger is building two new houses of Lord & Burnham Co.'s construction, each 50x 400 feet. All the latest improvements in construction are being installed.

VINCENNES, IND. W. A. Reiman complains that people ride out to his peony farm in automobiles and carriages and steal the flowers. People who can afford automobiles, he thinks, ought to be able to pay for what peonies they want.

Secretary Fewkes' Report.

The present membership of the American Peony Society, not including four honorary members, is 54. We have lost during the year one member by death, E. V. Hallock, who joined the society at the last meeting at Ithaca, N. Y. Although his membership was of short duration, his loss will be keenly felt, for his horticultural attainments and genial personality made him a most valued member.

The work of the nomenclature committee is progressing. The peony bulletin published by Cornell University was issued early in the year and distributed to members. It contained the Coit essay on the peony and a partial descriptive list of varieties. This list forms the beginning of the official catalogue of the society. In his introductory note Professor Craig says: "It is to be regarded as a preliminary step, and therefore subject to modification in the light of future experience." I will therefore say without other authority from the chairman of the nomenclature committee that these descriptions are submitted to you for your approval or criticism, both as to method and accuracy. If they do not meet with your approval it is suggested that your objections be communicated direct to Professor Craig or his representative, Leon D. Batchelor, as it is through a frank expression of opinion on these matters that the best results will be obtained.

In connection with the nomenclature work the question suggests itself to me, whether, as individual members, we are doing all we can to further the work of the committee? It certainly is not enough for us to simply send our collections of roots to Cornell and expect the confusion to be straightened out there by the committee, while we keep on selling and distributing doubtful varieties under the names we happen to have attached to them. We should cease being too confident of the accuracy of our own list of names unless we have taken extraordinary means for proving them to be correct. For instance, if some of us have invested in the Lady Alexander Duff "gold brick" we should not pass it along as the true thing, but sell it upon its own merits if we are fortunate enough to have received one of the few good ones out of the dozen or more varieties sent here, for it then solves the problem, as one member at least has done, by advertising it as having been received for the true variety, but expressing a doubt of its accuracy, while giving it full credit for quality.

There are many other varieties of uncertain identity which should be treated in the same way, and if we are to be consistent members of the American Peony Society, some such course as the above should be followed. Another matter which should receive attention at this meeting is the premium list for our exhibitions and the ways and means of providing for it. The exhibitions form an important adjunct to the meetings, and some special provision should be made whereby prizes can be offered and paid without making too heavy demands upon the treasury. The exhibition at the last meeting at Ithaca was a fairly good one, but was made principally of flowers cut from the test collections: T. C. Thurlow Co., West Newbury, Mass., and Professor A. P. Saunders, Clinton, N. Y., were the only other exhibitors, and great credit is due them for making so good a showing of blooms. The former entered in the commercial and the latter in the amateur classes.

Peonies at Western Springs, Ill.

The first lot of peonies at Vaughan's Nurseries, Western Springs, Ill., was planted four years ago. Since then, under the direction of Carl Cropp, the varieties have been trued up, the plants thoroughly cultivated and other novelties and choice sorts added yearly until now it is a superb collection. In the new soil the plants have made wonderful progress and just now they are a magnificent sight, acres of lovely blooms that look exceedingly well en masse and grand flowers that will repay close inspection individually. An hour or two spent among them recently, under Mr. Cropp's guidance, was most interesting and pleasant and quite an education in peonies. As for the genial Carl himself he has the peony in his eye and it is with him in his sleeping and waking hours while thoughts of peony synoyms, big blooms and the merits of the Dutchmen and Frenchmen as peony raisers haunt his dreams. No one who has not had actual experience along this line can imagine the amount of work necessary to straighten out the names and keep all true in a large collection but so carefully has this been done each season that there is a very small proportion of rogues present and these are immediately marked to be taken out when lifting time comes around. Great quantities of fine flowers are now being cut and shipped to the Chicago and other markets and there are many thousands of late buds that will carry on the work and the display for sometime yet, though peony lovers who wish to see them at their best should hurry up and accept the firm's invitation and get transportation from Chicago to Western Springs.

Respecting the varieties these are almost endless and we make no attempt at describing them all, simply noting a few that, at the time of our visit, were showing good form and appeared of exceptional merit. First of all the grand old Festiva Maxima must be noted. It is grown in immense numbers and there are plants of all ages. This is one of the finest, if not the finest, of the white varieties for cutting and the great favorite on the Chicago market. Delicatissima is another old favorite, a pretty rosy pink of fine form, the flowers coming on good stiff stems and lasting well. Of deeper color and an exquisite peony is Lady Leonore Bramwell; the fragrance of this is very distinct and Mathilde Mechin is a new ball shaped flower and one of the finest pink peonies in existence. Mme. Breon has the outer petals pale rose with center petals yellowish, a pretty flower. The old reliable Edulis Superba is another of the finest for cutting and a good light red with strong stem. Mons. Jules Elie is a splendid large flower of grand shape, strong stem and exquisite rose color. It is exceedingly free and a fine grower. Faust is a lovely pink, like a Malmaison carnation. M. Boucharlat has also yellowish or chamois center and like Triomphe Gandavensis is a very good lawn peony. Mme. Ducel (Modele de Perfection of some growers), is a grand light pink without a fault and Jeanne d' Arc is a distinct and pretty variety very full and a profitable one to grow. Mme. de Verneville is a lovely thing, the flower very full in the center, rosy white with crimson streaks on the middle petals. Modeste Guerin is a pretty two-shaded flower, carmine and light rose, a tall grower with excellent stems and Felix Crousse is another desirable form. Mme. Bucquet is a very deep red and the old Officinalis is also largely grown. Queen Victoria, Couronne d' Or, Duchess de Nemours, Mme. Calot, Louis Van Houtte, Rubra Triumphans, Lee's Rubra Grandiflora (a splendid late red), Delachii, Pulcherrima and many others are to be seen in this fine collection which is well worthy a visit from all peony lovers.

The Temple Show.

The Royal Horticultural Society of England just held its twenty-second flower show in the historic Temple gardens. Rumor has it that it is the last show of this kind that will be held in these gardens. The Royal Horticultural Society is now financially richer than ever it has been before in its 105 years of existence, and is in no humor to put up much longer with the petulant complaints that are incessantly being made both before and during the show by the Temple garden authorities. However, much may happen in 12 months, and both parties may see their way to having the show just once more.

As an exhibition, there is no more to be said than in previous years. Every available inch of space has been filled in past years, but this year, perhaps a little more space was devoted to the outdoor exhibits. Unfortunately each day of the show was wet. There were about 130 exhibitors altogether from all parts of the United Kingdom also a few from Belgium and Holland. The most noteworthy groups of plants consisted as usual of orchids, roses, American carnations, hardy perennials and alpines, begonias, gloxinias, cinerarias, ferns, caladiums, azaleas, tulips, streptocarpuses, clematises, ornamental trees and shrubs, with smaller displays of fruits and vegetables grown on intensive principles. The most important exhibits were naturally made by trade growers, who usually reap a good harvest at this show and are prepared to spend money in putting up a worthy exhibit. Amongst the orchidists were such well-known firms as Sander & Sons, St. Albans, and Hugh Low & Co., Bush Hill, both of whom had magnificent groups. The accompanying photograph shows a glimpse of Sander & Sons' group. It was a model of perfection so far as staging was concerned, and it is difficult to beat this veteran firm in matters of tasteful arrangement. Odontoglossums of rare color and luster, fine oncidiums and laelio-cattleyas, cypripediums, wreaths of phalænopsis, numerous dendrobes, etc., formed the striking features, while a noble specimen of Cyrtopodium St. Legerianum (seen to the left in the picture near the pole) crowned the highest point in the center of the group.

Carnations were very much in evidence, amongst the exhibitors being a new one called the American Carnation Nursery, who competed with such well-known people as Cutbush & Son, W. H. Page, H. Burnett, R. W. Bath, C. W. Breadmore, H. Mortimer, C. Englemann, Hugh Low & Co. and A. F. Dutton. The flowers were all charming and included Robert Craig, White Perfection, Enchantress, Lady Coventry and Britannia. Rhododendrons from John Waterer & Sons—notably their ever lovely Pink Pearl—and Ghent and American azaleas from Cuthbert & Son, were quite up to the standard of previous years and attracted numerous customers. Caladiums are apparently losing ground, the most notable exhibit this year being from John Peed & Sons, Norwood, who had some real champions in their group. Although fallen on evil days the old firm of Richard Smith & Co., of Worcester, came up smiling once more with large flowering clematis, and was well backed up by another old firm, Jackman & Son, of Woking who did some wonderful things in the way of training their plants into pyramids, globes, etc. The tuberous begonias were finer than ever—if that were possible. Some curious ragged-flowered hybrid begonias were shown by an amateur, Frank Doyd of Croydon. They were of various hues between scarlet and white and were by no means unattractive. Indeed it is possible that with the changing fashions the very irregularity of the blossoms may appeal to many.

Ferns were shown in profusion by May & Sons, and Hill & Sons, both firms of good standing from Edmonton, some of the American forms of nephrolepis being particularly charming. Roses of course, next to orchids, constitute one of the chief features and in addition to such well-known growers as the Pauls of Cheshunt, and of Waltham Cross, Geo. Prince of Oxford, Chas. Turner of Slough, Cutbush of Highgate, Smith of Worcester, Frank Cant & Ben Cant, both of Colchester, Geo. Mount of Canterbury, Hobbies of Norfolk, we noticed Cannell of Swanley with a group of small rambler roses and a new hardy American Pillar with large single crimson flowers having a white center.

Sweet peas become more and more popular each year and on this occasion there were some fine exhibits from such firms as Dobbie & Co, Rothesay, Breadmore, Winchester, E. W. Knight & Co., Coggeshall, H. J. Jones, Lewisham, R. Sydenham, Birmingham, J. & A. Clark, Dover, G. Stark & Son, Ryburgh, and R. Chaplin, Waltham Cross. Amongst the varieties shown were White Spencer, Geo. Herbert, E. J. Castle, Mrs Collier, Lord Charles Beresford, Evelyn Hemus, Princess Juliana, (a pale primrose, named after the Dutch princess).

Of herbaceous and alpine plants there were some 40 to 50 exhibitors from all parts, and naturally there was a good deal of repetition in the species and varieties shown in such great profusion. The most noteworthy new plants were Primula Forresti and P. Bulleyana—both lovely yellow kinds from China, shown by Bees, Ltd., Liverpool. Amongst special groups, mention should be made of Sutton's begonias, gloxinias, star cinerarias and nemesias. Outside the tents in the open air, were some of the most tasteful exhibits in the show. They consisted for the most part of ornamental trees and shrubs. There were also several groups of topiary work, box trees and yews being cut into various fantastic shapes. Pigmy trees from Japan were also in evidence and still appear to attract some attention. But perhaps the chief features of interest in the open air were the tastefully arranged rock gardens. This style of exhibit is now popular not only at the Temple but at some of the large provincial shows, and considering the great cost of carriage of stone and material, it evidently pays to go to the trouble and expense of erecting artistic rockeries wherever sufficient space can be obtained. W.

F. SANDER & SON'S GROUP OF ORCHIDS AT THE TEMPLE SHOW.

THE VIOLET.

Notes in Season.

In the rush of spring work do not neglect the young violet plants outside. Keep the surface of the soil well stirred from the very beginning of the season, and remember that a dust mulch is as good or better than one of other material and that plants so protected will stand a lot of hot, dry weather. Though not generally so considered we believe that weeds are a blessing to the grower. Plenty of small weeds necessitate a lot of cultivation and that is what the plants require. Watering may sometimes be necessary. Fertilizer may or may not be required, but a continual stirring of the surface soil is the prime factor in the successful culture of all outdoor crops. The wide-awake man will accomplish more on poor land, without water or manure, than the sluggard on the best of soils.

The runners have not started much yet, but when they appear they should be promptly cut (not torn) off. For this purpose we use an ordinary edge cutter such as is used for edging flower beds and lawns. See that the edge is sharp, likewise your eyes, and a lot of backaches, and perhaps some language as torrid as the July weather can be saved. With the single varieties the above is about all that is required until the time comes to bench, usually in October. But although the task is simple, see that it is done when required. A little neglect now will surely spoil the prospects of a profitable winter crop. If Mrs. Smith's geranium bed and the violets need attention the same day, don't neglect the violets, that's all.

WHITE VARIETIES.

The only commercial white now in cultivation is Swanley White—a double variety. This is but little grown for the reason that it is as difficult to handle as all the varieties of the Marie Louise type, and also that, as ready for sale, it is usually far from white. The long time required to open a double flower nearly always results in the blooms becoming badly discolored before they are matured. In singles the White Czar is too small for commercial purposes, but we think all will agree that a white approaching in size and freedom Princess of Wales would be a decided acquisition. A single violet opens its flowers so quickly that they can be used while still white. In the choicest of work and for the best trade a real good white violet is needed. For a number of years there have been rumors of such a variety, but careful investigation reveals nothing but mere rumors. Once we traced the will o' the wisp to the king's greenhouses at Sandringham, but on inquiry the head gardener had not heard of it. Some day such a variety will make its appearance and will receive an enthusiastic welcome. Who will be the lucky, or rather the persistent, grower to give it to us?

VIOLA.

HERINGTON, KANS. Chas. Rissmon is building a large greenhouse.

COLORADO SPRINGS, COLO.—A terrific hailstorm struck the town June 11, doing considerable damage to several establishments.

WAUKEGAN, ILL.—Theodore Meyer had an excellent Decoration day trade, geraniums being in great demand. He has an excellent stock of hydrangeas with 20 or more flowers on each plant. The entire place is in fine order as always is the case here.

American Association of Nurserymen.

Rochester Convention a Record Success. Nurserymen Go to St. Louis Next Year.

OFFICERS FOR THE ENSUING YEAR.

F. H. Stannard, Ottawa, Kans., President. | Geo. C. Seager, Rochester, N. Y., Sec'y.
W. P. Stark, Louisiana, Mo., Vice-Pres. | C. L. Yates, Rochester, N. Y., Treasurer.

Seeing the Flower City.

After the morning session of the American Association of Nurserymen on June 9, as reported in our last issue, the 400 visitors and friends had a most inspiring and enjoyable trip about the Flower City, visiting the principal parks that have made it famous and attending a band concert in Highland park, where the photograph was made from which the illustration on page 1061 was made. From Highland park they were taken to Genesee Valley park and did not return to the convention quarters at the Hotel Seneca until 6:30. Several cities were suggested for holding the convention in next year, St. Louis and Denver being the principal rivals, the former eventually winning out.

It was planned to have State Commissioner of Agriculture C. A. Pearson deliver an address, but he did not reach the city. During the day there were insistent calls on the long-distance telephone for him, but he could not be located. In the afternoon Secretary Seager was notified that Mr. Pearson had been stopped at Canandaigua early in the morning by a telegram from Philadelphia to the effect that, through an accidental break in a gas pipe in their home, his mother and brother had been overcome by gas on Tuesday night, and his mother was not expected to live. Mr. Pearson at once left the Rochester train and proceeded on the next train to Philadelphia.

President Brown's Address.

THE CONVENTION CITY.

You have already been warmly welcomed to my native and home city, yet I cannot refrain from telling you how very happy the western New York nurserymen are that you decided at Milwaukee to honor Rochester, the cradle of the nursery industry, with your convention this week. Those who attended the last meeting here some 26 years ago, at which time Wm. C. Barry was your president, and who have not kept in touch with Rochester since that time, will hardly know her. We have now one of the three cities of the first class in the Empire state. We have here all the advantages of the larger cities. We have what every city must have to prosper, our full quota of public spirited citizens.

Rochester has not been standing still any of these 26 years. Yet it is but within the recent past that she has fully awakened to her possibilities. It remained for a young man from out of the far west to shake us up as we had never before been shaken and to point out to us what we have here. Sidney R. Clarke came to us from California as secretary to our chamber of commerce. He set the wheels all agoing. Among other things he suggested that we as a city collectively and individually adopt the motto, "Do it for Rochester." This suggestion was enthusiastically endorsed and every man, woman and child has been consistently "doing it for Rochester" ever since. I would suggest that when you return to your homes you promulgate this doctrine. Adopt this slogan, "Do it for Fredonia." Do it for whatever your home town name may be.

F. H. Stannard.
President-elect American Ass'n of Nurserymen.

We are proud of our city, proud of her position among her sister cities, proud of our parks and boulevards. We have hundreds of acres of beautifully developed parks, affording opportunities for rest and recreation to all our citizens and playgrounds for our children. We are proud of that great captain of industry, George Eastman, of kodak fame, through whose business ability and generosity Rochester has greatly profited and who, in conjunction with that other public minded citizen, Dr. Durand, has just given Rochester 500 acres on the lake shore. This will soon be one of the finest parks in the country.

We are not going to keep you indoors much. We want to show you Rochester and let you decide if she deserves the name, the Flower City, and also whether or no she is a good convention town. I shall endeavor to make a record for brevity in my remarks because we have with us many excellent speakers who will occupy the short time at our disposal much more profitably.

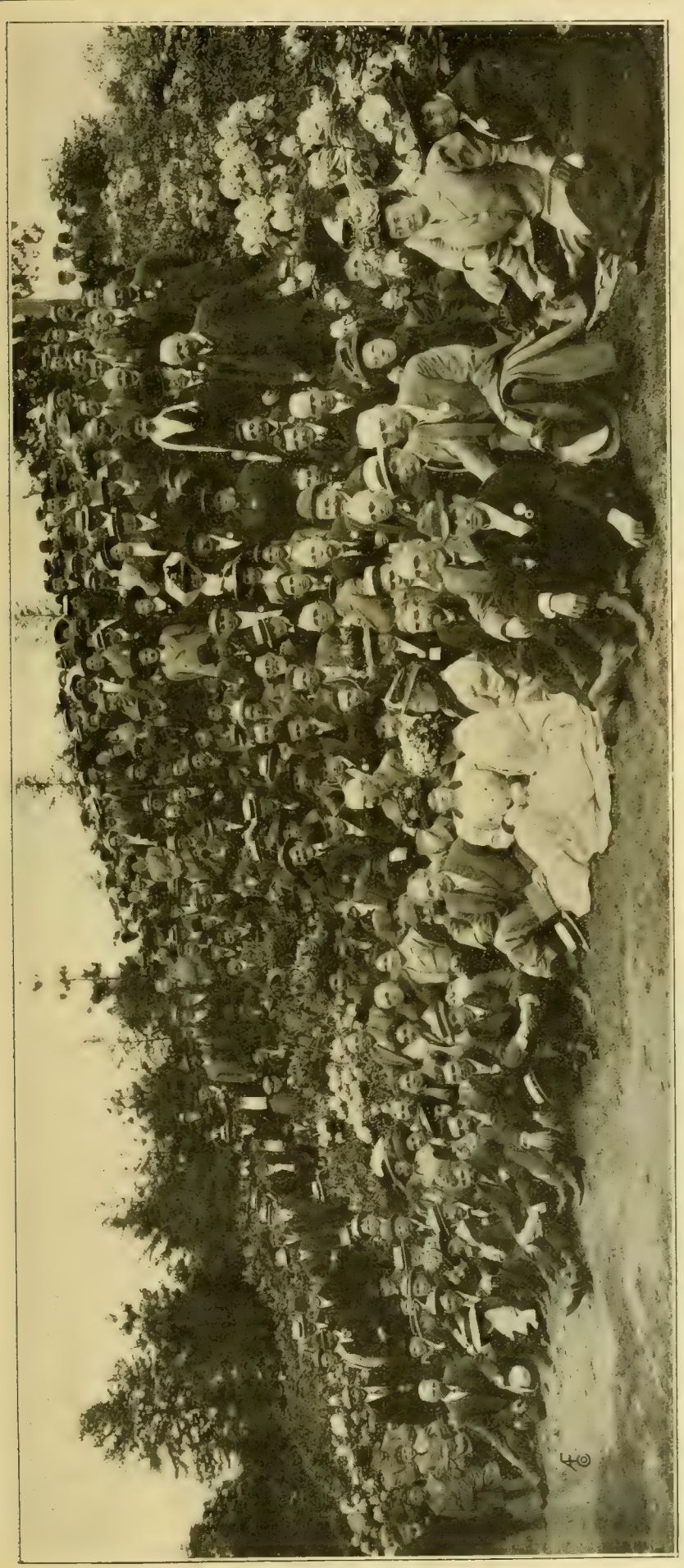
SPRING BUSINESS.

So far as I can learn, the past spring's business has been a record breaker with you all. Stock has been in such demand that good prices have ruled and practically everything has been sold. To cap this excellent condition, collections have been prompt and everybody is working along smoothly, happily and contentedly. For these conditions how thankful we all are. Gentlemen, taking all in all we are following perhaps the pleasantest vocation in the world with its daily contact with nature, and if there is any man in the world who should be an enthusiastic outdoor man, who should encourage in every way in his power the civic societies, neighborhood garden, tree and plant associations, local park boards, forestry movements, etc., it is the nurserymen, for he more than most others is in daily contact with the things with which these organizations have to do and so the more fully can measure the great good possible. Many towns are slow in making appropriations for parks, playgrounds and other breathing places. Hold up the hands of the leaders in these movements and work up public sentiment in the community with which you are identified favorable to liberal expenditure of money for these purposes.

There are many practical subjects for the interchange of opinion and experiences. One subject which was brought very forcibly to my attention a few weeks ago by one who has been very successful as a result of keen foresight and who has been and is today still backing up his convictions is that of investment in lands. How much of his capital can the average nurseryman afford to put into land? Is it not better to own land than to rent it? How have land investments paid nurserymen in the past as compared with their other investments? Should not every nurseryman be a considerable land owner? Is he not in a position to carry land cheaper than the average investor?

The gentleman of whom I speak is connected with large business interests, travels extensively and is intimately acquainted with land values of the world. He states unqualifiedly that for a long investment extending over a period of years nothing is so sure to pay well as land in the eastern half of the United States where he lives. The same may be equally true of the western half. There may be new lands in the west and south which some here know about in which we should all have a few dollars. If so why not tell one another? There may be unusual opportunities for the young man in certain localities. If we should know of them why not put the young man wise?

These meetings to my mind should be experience meetings. A word might be dropped by any member which would greatly cheer and assist some other. Let us therefore in coming together try to help one another by referring to the things that we have found helpful to us in our daily experiences. Your committees have been composed of most excellent men and I wish to thank them all for their loyalty and faithfulness. I will but touch upon their good work, leaving it to the chairman of each committee to make its report from which you can



GROUP OF MEMBERS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AND THEIR FRIENDS AT HIGHLAND PARK, ROCHESTER, N. Y.

judge somewhat of the debt of gratitude we owe to men who have devoted such a large amount of valuable time to the work of this association.

I would be dull indeed if I did not appreciate the great honor you have paid me in choosing me as your president this year when our convention is in my home city. I know you will deal gently with all my shortcomings as a presiding officer and I shall be glad to be corrected when in error. And now, gentlemen, in closing, welcome to our city and may your sojourn with us rest and cheer you and may you return to your homes feeling that it was good to have come to this place.

Election of Officers.

The officers nominated at the evening session on June 9 and elected on Thursday morning were as follows:

F. H. Stannard, Ottawa, Kans., president.

W. P. Stark, Louisiana, Mo., vice-president.

Geo. C. Seager, Rochester, N. Y., secretary (re-elected).

C. L. Yates, Rochester, N. Y., treasurer (re-elected).

This makes Mr. Seager's sixteenth term as secretary, and his re-election was very popular. Wm. Pitkin, chairman of the legislature committee, summarized a bill that was introduced at the last session of congress, but defeated by his committee. He pointed out some of its defects and made suggestions for a new bill, saying in part:

Nursery Stock Inspection Bill.

"Perhaps the most important matter which has come up for action by this committee was a bill introduced in the last congress providing for the inspection of foreign nursery stock at ports of entry. Contrary to a tacit understanding, which had existed for a number of years, this bill was prepared by Dr. Howard of the Department of Agriculture at Washington in connection with several state entomologists, and without consulting our association. The bill passed the house of representatives, and had been reported favorably by the senate committee on agriculture, before your legislative committee had any information regarding the matter. The chairman of the committee called to his assistance Irving Rouse, James M. Pitkin, J. H. Dayton, Abner Hoopes, W. H. Moon and Thomas B. Meehan, and the committee went to Washington, and after a hard fight succeeded in killing the measure for the last session of congress.

"It was agreed that the bill would be laid over, with the understanding that before the next session of congress the legislative committees of your association, together with Dr. Howard of the Department of Agriculture, and other entomologists would get together and endeavor to agree on a bill that would be mutually satisfactory. Following this agreement, and at the suggestion of Dr. Howard, your committee formulated a bill and sent it to Dr. Howard for his consideration about two months ago. Shortly after that time your chairman and some of the members of the committee were in Washington in connection with matters of tariff, and called on Dr. Howard for the purpose of dis-

cussing the proposed bill, but he had not had time to consider the matter, and was not ready to discuss it. It was therefore left for future consideration, and your committee would suggest that the legislative committee for next year be given authority to act on this matter following the general lines of the bill presented for Dr. Howard's consideration."

Other Addresses.

Professor L. H. Bailey of Cornell University gave an interesting address on "The Science Point of View;" L. H. Berckmans of Augusta, Ga., spoke on "The Experiment Station and The Fruit Interests;" E. S. Osborne, Rochester, "Relations Between the Grower and the Retailer." Reports were made by C. J. Maloy of Rochester on the National Council of Horticulture; T. B. Meehan of Dresher, Pa., on exhibits; J. M. Irvine of St. Joseph, Mo., on publicity, and Orlando Harrison of Berlin, Md., on the plan to obtain co-operation between nurserymen and entomologists.

At 12:45 the ladies who were at the convention with their husbands repaired to the Genesee Valley club, where a luncheon was served. Local women were the hostesses. In the evening there was a theater party for the women and a smoker at Masonic temple for the men. In addition to the election of officers at this meeting the following members were elected as an executive committee, of which the officers of the association are members ex-officio: H. B. Chase, Huntsville, Ala.; J. H. Dayton, Painesville, O.; E. M. Sherman, Charles City, Ia.

Trade Exhibits.

The trade exhibition was large and varied, the following being included among the exhibits:

Ellwanger & Barry, Rochester, hardy nursery stock.

Wm. Cooper & Nephews, Chicago, Cooper's spray fluid.

Jackson & Perkins, Newark, N. Y., roses and other hardy stock.

T. J. Farmer, Pulaski, N. Y., strawberry plants.

Rochester Lithographing Co., lithographs and catalogues.

The McFarland Publicity Service, Harrisburg, Pa., autochromes and catalogues.

Dayton Fruit Tree Label Co., labels.

John Charlton & Sons, Rochester, peonies, iris and rhubarb.

Brown Bros., Rochester, fine catalogues and plates.

C. Betscher, Canal Dover, O., peonies and irises.

Thos. Meehan & Sons (inc.), Dresher, Pa., red raffia and calipers.

Harrison Nurseries, Berlin, Md., fruit trees and other hardy stock.

P. J. Berkmann Co., Augusta, Ga., nursery stock.

C. M. Hooker & Sons, Rochester, Perfection currant.

Vincennes Nurseries (W. C. Reed), cherry trees.

Chase Nursery Co., Huntsville, Ala., horticultural tools and appliances.

The Fruit Grower, St. Joseph, Mo., catalogues.

The National Nurseryman, Rochester, N. Y., samples.

The Macmillan Co., New York, Bailey's Cyclopedia of Horticulture and Agriculture.

The Vredenburg Co. Rochester, lithographs.

Clark Nursery Co., Rochester, peach seed.

Stecher Co., Rochester, lithographs.

M. Brunswick & Co., Rochester, hand painted and colored plates.

McHutchinson & Co., New York, raffia.

B. G. Pratt, New York, scalecide.

Clinton Falls Nursery Co., Owatonna, Minn., tree planter and firmer.

L. F. Dittmann, Bellville, Ill., simple tree baler.

Dundee Nursery Co. (D. Hill), Dundee, Ill., hardy conifers.

Niagara Sprayer Co., Middlesport, N. Y., sprayers and spraying mixtures.

Frank B. White, Chicago, special advertising.

The E. C. Brown Co., Rochester, autosprayers.

Perfection Planter Co., Carleton, Mich., perfection planters for potatoes and peach pits.

J. W. McNary, Dayton, O., Hydrangea arborescens sterilis, showing leaf variations; grown by T. A. McBetty, Springfield, O.

Paul C. Koeber Co., New York, art folios in natural colors.

Report of Transportation Committee.

About the only thing your committee on transportation has to report is the matter of changing the release clause on nursery stock. The clause formerly read: "Nursery stock prepaid or guaranteed, invoice value not exceeding $5 per 100 pounds and so receipted for, etc." Notice was received December 31, 1908, that the western classification committee would meet at Mobile, Ala., on January 13 and that they had placed on their docket the revision of the valuation on nursery stock. My time was so fully occupied that it was impossible for me to attend this meeting. W. C. Reed of Vincennes, Ind., kindly consented to go and Stark Bros. Co., of Louisiana, Mo., very generously offered to send their traffic manager, Chas. Sizemore, who is a railroad man of wide experience.

Grass Walk in Ellwanger & Barry's Nursery.

These gentlemen were in attendance at Mobile 11 days before this subject was reached by the classification committee; however, they were not idle during this time. They were interviewing the different members of the committee and corresponding with different nursery firms, getting information and statistics so that when the opportunity was offered they presented the matter in an able and most satisfactory way and were successful in having the release clause stricken out altogether and it was through the strong showing made, that nursery stock in a general way does not exceed $5.00 per 100 pounds, that this clause was stricken out and your committee would therefore urge that when it is necessary to make a claim that it be made on a reasonable and proper basis.

F. H. STANNARD,
Chairman of committee on transportation.

Main Street, Rochester, N. Y.

Local Feature Committees.

The following were the local committees in charge of the features of the convention:

Finance—W. C. Barry, Irving Rouse, Nelson Bogue, Geo. C. Perkins, Geo. S. Josselyn, Theodore J. Smith, John B. Morey, Wm. C. Maloney.

Smoker—E. S. Osborne, Chas. L. Yates, O. G. Chase, J. M. Pitkin, E. O. Graham, Walter W. Wyman, Chas. H. Vick.

Rides and Excursions—Chas. J. Maloy, M. B. Fox, B. F. Allen, F. E. Grover, Chas. H. Hawes, R. D. Leutchford, A. L. Wood.

Entertainment of Ladies—Horace Hooker, R. G. Salter, J. F. Dale, E. S. Mayo, A. A. Mosher, Thos. F. Brown, C. H. Chase, Mrs. C. J. Brown, Mrs. G. C. Seager.

Decorations—A. H. Salter, J. M. Charlton, Geo. F. Crossman, J. M. Keller, Fred. W. Vick, Fred Schlegel.

Executive—Wm. Pitkin, J. M. Pitkin, Chas. J. Maloy, E. S. Osborne, Horace Hooker, Wm. C. Barry, A. H. Salter, Geo. C. Seager.

Press—H. C. Goodwin, John Craig, Chas. A. Green.

Convention Notes.

The Moons, Samuel C. and William H. of Morrisville, Pa., were conspicuous figures in the convention. The name of Moon is particularly appropriate when applied to William H., for his face is round and smiling, shedding happiness, just as the full moon does. Samuel C. Moon might easily be taken for a college president, a great preacher or a great philanthropist. We believe he could fill any of these positions better than some who are now on the jobs.

And, speaking again of Rochester, it is a great convention city. The statewide Sunday school workers, the Lutherans and several other religious bodies were there in convention contemporary with the nurserymen, and it was all very appropriate.

Politics came in for some hard knocks in the reports and papers. Politics is the canker worm, the gypsy moth and the San Jose scale to the tree of patriotism and statesmanship, or it is worse than all of them combined.

The little flurry of opposition to the re-election of Secretary Geo. C. Seager was but a short time in passing. He was too good a man to turn down, and the delegates wisely saw it in time.

Both the west and south were well represented. Kansas, Missouri, Tennessee, Alabama and others who once were foes, joined hands to uplift the noble art of horticulture. Now we know that the war is over.

Many of the delegates will long remember Highland park, its rhododendrons, azaleas and other beautiful flowering shrubs and plants, likewise John Dunbar.

Isn't that joke about the yellows in peaches getting rather stale? To the best of our recollection it had whiskers a foot long when we were children.

It is some distance from Rochester to Oregon, but there was at least one delegate from that state. There was also one from France.

ELLWANGER & BARRY'S NURSERY, ROCHESTER, N. Y.

Entrance to Grounds and Offices.

E. G. Hill of Richmond, Ind., is as much at home among nurserymen as florists and he is even said to know a little about seeds.

Considering that some people persist in calling New Jersey a foreign country, it was well represented.

Rochester is a great city. "Ask me, I live here," was the motto during convention week.

It was a great convention!

Additional Visitors.

Geo. Achelis, West Chester, Pa.
B. F. Allen, Rochester, N. Y.
Edward Bacon, Dansville, N. Y.
J. B. Baker, Baker Bros. Co., Fort Worth, Texas.
E. H. Balco, Lawrence, Kans.
O. A. D. Baldwin and wife, Bridgeman, Mich.
Barnes Nurseries, Cincinnati, O.
J. R. Barnes and wife, Yalesville, Conn.
Edwin Bell, Castleton-on-Hudson, N. Y.
G. M. Bentley, Knoxville, Tenn.
A. F. Bernard, Painesville, O.
F. F. Bernard, Painesville, O.
C. Betscher, Canal Dover, O.
H. M. Billings, Webster, N. Y.
Samuel E. Blair, Nutley, N. J.
E. J. Bowden, Rochester, N. Y.
W. G. Boyd, E. Penfield, N. Y.
A. W Brown, wife and daughter, Oconomowoc, Wis.
J. J. Brown, Rochester, N. Y.
N. G. Campbell, St. Joseph, Mo.
Chas. Cannon, C. C. Abel & Co., New York.
C. W. Carman, Lawrence, Kans.
M. L. Carr's Sons, Yellow Springs, O.
A. L. Causse, New York.
J. M. Charlton, Rochester, N. Y.
J. P. Clark, Rochester, N. Y.
Clinton Falls Nursery Co., Owatonna, Minn.
W. B. Cole, Painesville, O.
D. C. Converse, Fort Atkinson, Wis.
A. B. Cunningham, Rising Sun, Ind.
J. Franklin Dale, Western New York Nursery Co., Rochester, N. Y.
H. Frank Darrow, New York.
H. S. Dawson, Eastern Nurseries, Jamaica Plain, Mass.
Geo. F. Dickinson, New York.
L. F. Dintelman, Belleville, Ill.
Enos W. Dunham, Stevensville, Mich.
J. J. Dunham, Stevensville, Mich.
Elm City Nursery Co. (W. W. McCartney), New Haven, Conn.
Chas. Ernst and wife, Moscow, O.
F. H. Farmer, Boston, Mass.
L. J. Farmer and wife, Pulaski, N. Y.
J. Farnum, Milwaukee, Wis.
A. F. Faulkner, **American Florist**, New York.
Wm. Flemer, Springfield, N. J.
M. B. Fox, Rochester, N. Y.
M. A. Gaines and wife, Xenia, O.
Geo. E. Galeener, W. E. Galeener & Sons, Vienna, Ill.
Robt. George, Painesville, O.
H. C. Gillespie, Chicago.
G. W. Grant, Coloma, Mich.
Nathan R. Graves, Rochester, N. Y.
O. D. Green, Syracuse, N. Y.
R. B. Griffith, wife and daughter, Fredonia, N. Y.
F. E. Grover, Rochester, N. Y.
F. A. Guernsey, Schoharie, N Y.
A. G. Gyllenhaal, Swain Nelson & Sons, Chicago.
Henry Haas, Terre Haute, Ind.
H. E. Hall, Sherman, Texas.
Harry E. Hamilton, Bangor, Mich.
H. Hankie & Son, Painesville, O.
D. Hansen, Fairbury, Neb.
Henry L. Harrison, Berlin, Md.
J. Harrison, Painesville, O.
W. A. Harrison, York, Neb.
W. C. Harrison, Painesville, O.
W. L. Hart and sister, Fredonia, N. Y.
W. H Hartman, Dansville, N Y.
G. H. Hawks, Rochester, N. Y.
D. H. Henry, Geneva, N. Y.
W. F. Hertas, Huntsville, Ala.
Julius Heurlin, South Braintree, Mass.
D. Hill, Dundee, Ill.
E. G. Hill, Richmond, Ind.
V. D. Hill, Dundee, Ill.
Frank C. Hoag, West Coxsackie, N. Y.
C. M. Hobbs, Bridgeport, Ind.
H. W. Hobbs, Bridgeport, Ind.
O. A. Hobbs, Bridgeport, Ind.
Geo. W. Holsinger, Rosedale, Kans.
C. G. Hooker, Rochester, N. Y.
Abner Hoopes, West Chester, Pa.
S. Hoyt, New Canaan, Conn.
Paul M. Hubbard, Bristol, Conn.
W. W. Hunt, Hartford, Conn.
J. M. Irvine, St. Joseph, Mo.
H. E. Jackman and son, Waterloo, Ind.
. Jenkins & Son, Winona, O.
Chas. Johnson, Rochester, N. Y.
G. Johnston, Kansas City, Mo.
Frand Kadlec, wife and daughter, Evanston, Ill.
Edward Kelley, New Canaan, Conn.
J. Yates Killian, Newton, N. C.
D. Knight & Son, Sawyer, Mich.
Martin Kohankie, Painesville, O.
Lake View Nursery Co., Sheridan, N. Y.
J. F. LeClare, Rochester, N. Y.
C. L. Leesley, Chicago.
Maloney Bros, Dansville, N. Y.
C. J. Maloy, Rochester, N. Y.
G. A. Marshall, Arlington, Neb.
W. V. Marshall, Arlington, Neb.
C. C. Mayhew, Sherman, Texas.
J. R. Mayhew, Waxahachie, Texas.
Thos. A. McBeth, Springfield, O.
D. T. McCarthy & Sons, Syracuse, N. Y.
J. R. McDounell, Geneva, N. Y.
W. E. McMurray, Hamilton, Ont.
H. R. McNair & Son, Dansville, N. Y.
S. M. Meehan, Germantown, Pa.
F W Meneray, Council Bluffs, Ia.
N. G. and J. T. Merrit, Dunkirk, N. Y.
Hugh Merton, wife and daughter, Winchester, Ia.
S. A. Miller, Milton Nursery Co., Milton, Ore.
W. Mitchell, Beverly, O.
H. T. Moon, Morrisville, Pa.
Samuel C. Moon, Morrisville, Pa.
W. H. Moon, Morrisville, Pa.
A. Mosher, Rochester, N. Y.
Alvin E. Nelson, Swain Nelson & Sons, Chicago.
J. A. Nelson & Son, Paw Paw, Mich.
New England Nurseries, Bedford, Mass.
Niagara Sprayer Co., Middleport, N. Y.
North Jersey Nurseries, Newark, N. J.
E. B. Olner, Rochester, N. Y.
Geo. W. Olner, Rochester, N. Y.
E. S. Osborne, Rochester, N Y.

A VIEW IN HIGHLAND PARK, ROCHESTER, N. Y,

Permanent Fund Subscriptions.

William C. Barry of this city is chairman of the Finance Committee. He is one of the men who has done much to make Rochester "The Flower City."—Rochester Herald.

P. Ouwerkerk, Weehawken Heights, N. J.
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C. M. Peters, Salisbury, Md.
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D. S. Zaik, Iowa.

New Style "Nursery" Rhymes.

(By Josselyn.)

James wrote, "Come and help us and git
off that fence,"
And said "on most themes your mind is
quite dense."
Work your poetry pedal, you never talk
sense,
We hardly expect it at Rochester.

The Genial President.

The case and grace with which Charles J. Brown of Rochester presides over the sessions of the convention were acquired when he used to wield the gavel as chairman of the Monroe County Republican General Committee.—Rochester Herald.

Said sailor: "Where bound? How trim you
must feel
In full store-clothes rig from your truck
to your keel."
I'm goin' to big town where they sarve a
square meal.
And that's how they do it in Rochester."

At Milwaukee last year we seemed fairly
well bred
Stepped softly, dined wisely, went early to
bed.
Old Cutter warn't there; he was dead, so
they said.
Is he with us in Spirit in Rochester?

Once at Seneca tavern I ate kangaroo,
Tho 'twas French on menu, seemed like fine
Irish stew.
Should judge 'twould blend well with Bartholomay brew.
They sometimes do that too, in Rochester.

From platform of Empire Kang tried to
jump down,
The conductor grabbed us and said with a
frown
"Wait a mile or two, here you would muss
up the town,
Can't allow you to do it in Rochester."

I know of a crank who spells egg with
one g,
Another writes hoss h-o- double s-e,
In pronouncin' and grammar, how "intristing" we be.
Now how do they do it in Rochester?

Said a kid: "Pa, what's this gag about family tree,
Did the Lord make you and ma, sister and
me?"
"Sure son. When you've read the Good
Book you will see."
"Say dad, don't he improve right along
here in Rochester?"

I remarked to a friend that I'd bought real
estate,
"Did you?" said he. "Yes. They 'did me'
'not' straight,
Next time I'll have better judgment and
wait."
How I wish I had bought all of
Rochester.

At banquet a stranger in language quite
terse
Said: "Are you the landlord?" "No, sir. I've
done worse,
But could never keep tavern nor yet drive a
hearse."
That gent undertakes it for Rochester.

At these outings our boys will make eyes at
the fair
At Dallas one charmer had kinks in her
hair,
These youths must awhile with flirting forbear,
Nicest gals don't do it in Rochester.

At next turn of the wheel the Poe slipped
a cog,
Its grist must be veiled like a barn in a
fog,
It was rhymin' Jim's yarn about hoss or a
dog.
Repeat it? Can't do it in Rochester.

[And yet they did not shoot the rhymster.
—Ed.]

"Ain't You Glad You Came?"

"It's 26 years since the association has convened in Rochester; but I don't think they'll stay away so long again. This is the place to come for up-to-date ideas on nursery matters."—William Pitkin, State Fair Commissioner.—Rochester Herald

Relations of Nurseryman and Farmer.

BY T. B. WILSON.

The subject of my talk is "The Relation of the Nurseryman to the Farmer." This relation should be so close and harmonious that the one could whisper in the other's ear at any time. Such, however, is not the case. They have really fought each other. The nurserymen seem to class themselves apart and, although they are right in the sense that they are self-elected and their trade requires more business methods than the ordinary farmer is willing to apply to his work, the fruit grower resents such an attitude.

The farmer should be raised up a notch. This can come by education only. On the other hand the nurseryman ought to be willing to come down a notch and put himself in the farmer's place part of the time. I believe both intend to be honest, but are hardly fair with each other and the one is probably as much at fault as the other. The practices of some nurserymen are unfair to the fruit grower. It is of these practices that I wish to speak.

SUBSTITUTION UNFAIR.

One of these is the right of substitution, the right claimed by some nurserymen. The purchaser of nursery stock has no assurance of the varieties he is getting until the trees commence to bear. The guarantee of the nurserymen is to replace any tree not true to name. Of what value to the grower is a nursery tree in place of a bearing tree in the orchard? Unquestionably of insignificant value when compared with the loss to the grower. The nurseryman ought to recognize the grower's position more fully and make a fairer settlement of these difficulties.

Again some nurserymen are not particular enough in filling orders to select first-class stock only. Especially is this true when the trees go to sections where fruit growing is carried on to a small extent. Such discrimination, it is true, offers an avenue for the disposal of inferior stock where the nurseryman thinks no objection will be made, but it takes undue advantage of the farmer and should be stopped. It will be unprofitable for the nurseryman in the end, as it will discourage future sales in such localities. There are a few men, advertising as nurserymen, who in reality buy all their stock—many who buy part of their stock. Such stock is secured from sources of most advantage to the purchaser. This practice is a serious drawback to the fruit grower and has made many a customer dissatisfied. It should be discouraged.

PEDIGREE STOCK.

I want to suggest for your consideration the subject of pedigree stock. Increasing competition in the dairy districts has compelled the weeding out of all but the first cows—cows that are not only of the first breed, but are the best in that breed. The time has now come when the fruit grower can no better afford to have unproductive and unprofitable individuals in his orchard than the dairyman in his herd. We cannot blind ourselves to the fact that an apple tree possesses individuality just as much as a cow does—that two trees of the same variety and similarly grown in every respect, except that they are from two different scions, often differ greatly in the amount and quality of their fruit.

By the time an orchard has come into bearing it is a troublesome matter for the fruit grower to rework those trees that prove to be below standard. The place for such selection is in the nursery row, and as long as buds and scions are taken from nursery trees and not from bearing trees of known quality, such selection will never be accomplished. The problems above mentioned seem to me to present the most serious difficulties between the nurseryman and the growers. Nor is the nurseryman entirely to blame for these. Too often the grower himself is at fault. Honesty and fairness to all men and by all men will do much to correct these difficulties.

Relations Between Grower and Retailer.

BY E. S. OSBORNE.

The subject which has been assigned to me is of sufficient range to permit one to talk on indefinitely. I shall not, however, take up a great deal of your time, as I know you are anxious to hear the reports of your committees, attend the other meetings that are scheduled for this afternoon, and also to get in training for the smoker which is to be held this evening. It has been my pleasure to attend a number of conventions of your association, but in all the papers which have been read and addresses made, little attention has been paid to the retail end of the nursery business, yet we count among our membership a great many firms, the bulk of whose business is retail, the wholesale department being used more to dispose of the surplus stock, which any firm doing any growing at all is bound to have.

With all due respect to our wholesale brethren, I believe the time has come when something of interest to the retail nurseryman should come up at all of our meetings, and I hope that in the future the committee on programme will arrange for papers that will treat on the nursery business from the retail standpoint. I confess I do not know why the committee on programme used the words "Reliable Retailer" in naming my subject, for all retail nurserymen are supposed to be reliable.

The relations between the grower and the retailer should be of the pleasantest character, and each should strive to do his best to assist the other and to protect him, for the very reason that the success of each is dependent upon the success of the other. It is true the grower could say that he could get along very well without the retailer, that he could market his trees at perhaps a bigger price than he is getting for them now, but is he fitted by experience and ability to go ahead and do so? On the other hand, the retailer might say that he could go ahead and grow stock and be independent of the grower, but the same question arises again, is he experienced and has he the ability to go ahead and do so? I think you will agree with me that in the majority of cases neither one is fitted or experienced for the duties of the other. Such being the case then both are helpless without the assistance and good will of the other. It, therefore, behooves the grower to protect and assist the retailer and the retailer to do likewise.

The grower should be careful in the propagation of his stock, should see that his varieties are not mixed, and above all, that the stock is absolutely true to name. Care should also be exercised in grading so that the most exacting retailer will have no cause for complaint when stock is delivered to him, for there is nothing more exasperating when a fine lot of stock is expected than to find on delivery that it is not up to grade either in height, caliper or quality, and delivery of this kind only means loss to both parties and an added additional expense. On the other hand, the retailer should remember that nature is not as good to some varieties as to others, all of which should be taken into account when trees are being sorted.

There is another point I wish to draw the attention of the grower to and that is the practice of sending wholesale price lists and surplus lists to the consumer. If there is anything that is unfair or unjust to the retail nurseryman it is this unfair practice. There is no reason under the sun why a consumer should be able to buy trees and shrubs at wholesale. You would not expect to go into a wholesale clothing house and buy a suit of clothes at the same price as the retail clothing merchant, and I can see no reason why the consumer in our line should be accorded this privilege. Do not understand me as saying that anyone here makes this a practice, but I have had a number of wholesale lists sent into our office by our agents which have been picked up by them from prospective customers. If you are in the wholesale business be satisfied to dispose of your products to the retailer and I am sure that if the stock is good and prices are right you will have no trouble on this score.

Before closing there is just one question I wish to call to your attention and that is, whether the professional landscape gardener is entitled to receive the wholesale price list of the grower. I would answer this question in two ways: Yes, provided he would resell the stock to those for whom he is employed at an advance, taking a reasonable profit, and there is no reason that I can see why he should not take this profit. On the other hand, if professional etiquette will not permit him to do this, then I cannot see why he should be allowed to buy stock at wholesale and turn the bills over to his employer, the consumer, permitting him to buy a small quantity of stock for home consumption at the same price as the retailer pays who buys in large quantities.

Be Sure To See Our Parks.

John Dunbar, assistant superintendent of Rochester's parks was a happy man when he pointed out some of Rochester's floral beauties to the visitors on their sightseeing tour, and there is no one who could do the job more expertly.—Rochester Herald.

Nurserymen Pulling Together.

BY J. H. DAYTON.

I have been assured that there is never too much of a good thing, yet have sometimes thought that a reduction in the number of nurserymen might be a benefit to the trade. Yet when we consider the joys that flow into his life, how near he is to nature's heart, how calm, sweet and peaceful an existence he leads, how cares, worries and perplexities skip him by, the wonder is not that we have so many but that many more are not scorning the temptations to engage in some well organized, well conducted business with established customs, rules and regulations, and becoming a free lance in the tree world, where every man can be a law unto himself, and unlimited competion take the place of organized effort.

TROUBLES AND TRIALS.

It certainly is fine fun to chase the elusive wooly aphis to his lair, with a swab of fish-oil, to bend the gentle swaying branch of the cherry or apple heavily laden with black or green aphis down into the depths of the pail of tobacco juice, to listen to the wily tree buyer, as he calmly convinces you that trees you thought were worth 15 cents on your grounds are in reality high at 7½ cents, boxed and freight paid; to open the letter dated April 7, saying—"Gentlemen: We have as yet received no notice of the shipment of our trees, as per our order of the fifth. We call on heaven and earth to witness that everything else ordered the same date is in, that it is impossible to bill up a single order until your shipment is received, and eternal and everlasting ruin is our portion, unless your shipment reaches us at once." You grab your telephone, order the foreman to drop everything else and rush that shipment off. The next letter opened is from the same firm ordering a long list of assorted stock, shipped with their first order. Joy is not everything on this mundane sphere regarding it as a business, as it surely is; is not the percent of actual cash cleaned up on our investment about the only true criterion as to its value?

To judge from the letters published, the papers read at some of the fruit growers and horticultural societies, the remarks made and laws introduced into some of our legislatures, the sole object of every nurseryman is to do up his customers, mislabel and kill as many of his trees as possible before shipment. The truth is, that, outside of the few genuine mistakes that are bound to occur in any business, the swindling dealer or nurseryman is able to carry on his operations only by the ignorance or cupidity of the buyer. The consumer, who will use as much brain work in buying nursery stock as his wife does in buying clothing for the kids, will get what he buys and pays for. However well established our reputation seems to be for deeds that are dark, do you not think a little honest striving together might eliminate some abuses, destroy some bad habits and set us a little nearer right in the eyes of the consumer?

ACTIVE CO-OPERATION NEEDED.

We will all agree, that, taking into consideration the inevitable task in growing and handling perishable stock, the experience and care that must be exercised to produce good stock, the capital that must be provided and locked up in growing blocks for from one to 10 years or more, that the returns are not and have not been at all commensurate and that in any series of years, more stock leaves the actual grower's hands at an actual loss than at a profit. Who ever heard of a rich nurseryman who obtained his filthy lucre from the profits in growing stock? Who is to blame? Well you and I, if we are honest about it will shoulder the responsibility and acknowledge it is our own fault. We cannot figure to a certainty the cost of our products, as does the manufacturer, who is able to control conditions and to insure both his finished product and raw material, but can we not establish a table of values and fix a basis below which everyone will understand he is selling at a loss? Can we not educate ourselves as to the true value of our stock and the amount we must procure, if it is sold at a profit? In fact, do you not know, that active intelligent co-operation among nurserymen could be made to establish us on a genuine business basis and establish confidence among ourselves and in our dealings with the public?

Commerce is not war and the good bargain benefits both parties. I understand the first fruit trust was organized in the Garden of Eden, with his satanic majesty as promotor. Perhaps the disastrous result of that speculation is one of the reasons why it seems almost an impossibility to secure active, honest co-operation amongst the growers of agricultural and nursery products. I remember hearing Mr. Collingwood make a statement, something like this, "If you should lock up seven farmers (he might have said nurserymen) in a room, give them a week to deliberate and their choice of coming out to pool their issues, buy and sell their products as one, directing one or two of their number to attend to their business as officers; or to be hung, there would be seven hangings on the seventh day."

TIME RIPE FOR ACTION.

Is not now a good time for concerted action in a common cause? Cannot we agree on some things we know and acknowledge to be wrong, eliminate and bury them so deep that their specters will never again trouble even the dreams of our trade? Cannot a few things, that we all know would improve our business and put money in our pockets, be adopted and lived up to by enough of our members to make them so essentially the rules of our trade, that no one will think of breaking them?

What about price lists? Like some ministers' texts, are they not often used only as a point of departure, only we run prices down, while the reverend is trying to elevate. What about the price list of steel or iron, or a thousand other manufactures? In what other convention in the world could I step from the platform and receive such a variety of prices on what purported to be the same article, and on what other commodity would there be such a diversity in grade or value when delivery was made?

If you knew nothing about our business and were made a trustee of some institution, who desired a bill of trees for its grounds, you make up a list, ask prices and receive bids, offering exactly the same lot of stock at from $318 to $675, and every offer from a reliable house, long in the business, well quoted in commercial reports and capable of filling their contracts, what would you think of the business sense and sagacity of the organized nurserymen? If a tree is worth $1 of any planter's money the first day of April, is it worth only 20 cents the first day of May? Have we not deliberately educated buyers to the fact that our products have no fixed value and that our estimated value fluctuates from day to day during the season, according to the way our mail opens up, or our food agrees or disagrees with us? Why are we so anxious to dispose of a little surplus at prices far below cost, that we seem to be willing to, and do make every effort as the season advances to demoralize prices, and trade demoralize our standing in the eyes of business men, demoralize our chances for selling our next year's products on a reasonable basis?

BURN SURPLUS STOCK.

Figure it out, and you will find the ash heap one of the most profitable articles on the nursery grounds. About 99 times out of 100, it is cash in our pockets to sell what we can at a fixed profitable rate and burn the surplus, to say nothing of the better condition we are in for future trade. As long as our price basis is that we can grow and sell as cheap as the other fellow, or indeed, go him one better, can we expect anything but meagre returns, or none? Are not the cut rates, reduced lists and cheap offers that flood our mails late every season, simply an admission of our incapacity to dispose of our stock at fair and reasonable profits?

What about grades? Perhaps no one standard will be adapted to every section, but is it beyond the capacity of this body of men, to fix and put in operation a system of grading that any man can learn and apply, and that will make us reasonably sure of what we shall find in our cars, and boxes when delivered? What about buyers at wholesale? Who are entitled to trade prices? Would it not be possible to have a list of actual wholesale traders, revised from year to year? Is the man who occasionally buys a few trees from his neighbor or who every year disposes of the products of a few acres of small fruits entitled to trade rates and surplus lists?

Take our own state, Ohio. Last year 567 applications were made for certificates, 509 issued. Of these 87 cultivated ten or more acres, one, ⅛ of an acre, 82 one acre or less, the large majority small fruit growers and sell nothing but their surplus plants, yet their names find their way into our mailing lists as nurserymen. Are the public institutions, parks, etc., who buy one to three large bills for the planting of their grounds entitled to same rates as fellow nurserymen? Why not decide and have some ruling that we could all know and understand, instead of as at present, everyone a law unto themselves? What about the man who buys an estate and pays the landscape architect a large price for planting plans and supervision? Should we supply the stock at lowest trade rates, assuming as we have to, all the risk and rebates expected by the retail purchaser? Ought not we to fix our own terms and methods of handling this business instead of allowing another organization to dictate them to us?

Perhaps none of these things and none that might be mentioned could be changed to suit us in one or two years, but taken up in a spirit of fairness and co-operation by the majority of the nurserymen at this convention, any or all of them could be made practically obligatory for the entire trade in a few seasons. We trust each other in every way until we come to the marketing of our products, when we usually act as though we thought every competitor had the principles of a Sioux Indian and was out with his little tomahawk to do us up, and hang our bleeding scalps in the sacred precincts of the bankruptcy court.

No nurseryman can live to himself alone; anything that hurts one firm hurts all; any method adopted by one or more that elevates the business and standing of one firm elevates all. Should we not stand together, or rather move forward together, co-operating not only with one another, but with all kindred organizations, not only to receive some of the results hinted at here, but in connection with civic improvement bodies, the Council of Horticulture, or any or all agencies, of which the object

is to make a cleaner, brighter and better planted America. Every back yard cleaned and planted, every scholar interested in a school garden, every farmer shown the possibilities of fruit culture, are bound to extend our business and make a better outlet for our stock.

Do not think I have no faith in our business or in my fellow tree man. Every one on the programme has a dispensation to knock a little. All of us, who have for years been trying to reach an automobile income, and have been sweetened by adversity until we now have all faith in walking, as an exercise and a sure way to get there, all know that through our organization much has been accomplished, that there is a better understanding, more of a disposition to look at things with the other fellow's eye, a strong desire here and there to get together and put the nursery interest on its proper plane. We have done many things, we can do many more.

Crow's-foot Elm.

AUSTRALIAN SUBSTITUTE FOR HICKORY.

In response to inquiries made by American wagon manufacturers, Consular Agent Asbury Caldwell, of Brisbane, furnishes the following information concerning the crow's-foot elm of Queensland and its use as a probable substitute for hickory:

"In a previous report attention was called to the fact that the director of forests in Queensland had urged upon carriage manufacturers the value of crow's-foot elm as a timber for use in that trade as a substitute for the rapidly disappearing American hickory. In response to a request made through the department of commerce and labor for further information, it may be stated that crow's-foot elm is a perfect substitute for American hickory for use in wheels, shafts, poles and spokes. The chief engineer for railways in Queensland reports that exhaustive tests of the timber are being made by his department, the result of which will be placed at my disposal at a later date. The director of forests, P. MacManon, supplies the following statistics:

"'Crow's-foot elm is Tarrietia argyrodendron (Bentham). There are two varieties. One is dark in color and the other is light. The latter is found in the southern part of Queensland, where it is often called hickory, to which wood it bears a decided resemblance. The darker variety is found chiefly in north Queensland, where it occurs in great abundance, attaining a height of over 100 feet, with a long clean barrel having a diameter of from three to five feet and sometimes more. The dark variety is also found in south Queensland, where, though quite a large tree, it does not attain the same size nor is it so plentiful as in the north.

"'The wood of the darker variety is very beautiful when cut in the radial direction, being of a light golden ground mottled with flakes of bright brown. The color changes as the wood is held at different angles to the light. It is now being used by the government railways for railway carriage fittings, on account of the beautiful color and grain. It is extremely elastic. I have had it made into trout rods and have tested it in several ways. A carriage woodware company at Nundah is using it for spokes and it is being made into ax and hammer handles in a factory in Cairnes, north Queensland. I have had it tested at the physical laboratory of Melbourne University, when pieces 36 inches span by 1.96 inches breadth by 1.92 inches depth having a breaking load of 2,350 pounds, the modulus of rupture being 17,560 pounds. The weight per cubic foot is about 46 pounds.

Twenty Years Ago.

JUNE, 1889.

The fourteenth annual convention of the American Association of Nurserymen was held in Chicago. Substitution was then, as now, a point widely discussed and Robt. Douglas expressed the belief that some nurserymen only draw the line at substituting a Norway spruce for a Ben Davis apple.

Growers were apt to include too great a variety in their stocks, especially in the bedding plant line, to make the best profit.

Bon Silene roses sold at $6 per 100 for the Decoration day trade at Boston.

A cross between a lily and an iris was one of the wonders which were "talked about."

The climbing sport of Niphetos rose was one of the novelties, White Perle was another.

The Phipps conservatories were built in the Allegheny city parks.

"Nature's way" was how overhead heating was described.

Frost in June did a great deal of damage to the bedding in the Chicago parks.

To Be Done Now.

IN THE GREENHOUSES.

Give a good coat of lime wash to all empty benches and let it dry well before filling in the soil.

Look out for the first attacks of thrips or red spider in the young cyclamens and fumigate at once if any are seen.

It is no use keeping callas longer under glass except for special purposes. Get them outside and give them a good rest.

Finish potting or flatting up the stevias and plunge them outdoors; shade lightly until established.

Never neglect to thoroughly clean a house, roof, benches and walls when it is empty or nearly so, as it can be done much more easily than when filled with plants.

Pot Begonia Gloire de Lorraine and place the plants in a light position, shaded from bright sunlight.

Begin to feed tomatoes as soon as the first bunches of fruit are set and swelling freely, keep the laterals pinched out closely, and when growing too freely shorten the leaves a little.

To induce crotons to flower and seed keep them pinched for pot room and grow in a clear light, keeping the roots on the dry side.

When cucumbers are fruiting freely feed the plants regularly and topdress with rich soil thinly once in two weeks.

Dry off and cut back a few marguerites and place them in a cool frame or house. Spray them freely and a number of excellent cuttings will result that will make fine stock for winter flowering.

A few lantanas and heliotropes potted now and plunged outside to be cut back later will give far better cuttings for stock in autumn than planted out specimens.

OUTDOORS.

Keep the soil moving between all crops and growth will be quicker and the plants healthier than if left alone.

Plant squash or pole beans in any out-of-the-way corner where there is something unsightly to hide.

Plant up plenty of geraniums for stock in an open position, if the grounds do not admit of planting for display. Where beds can be planted near the greenhouses and carefully tended they form a good advertisement.

Phloxes may be propagated by means of cuttings made of the young shoots now pushing up from the old stools.

Place supports early to all herbaceous and annual subjects needing this attention.

Propagate primroses and polyanthuses by division now, planting the young stock in a cool and moderately shaded position and watering freely until new roots start.

It is not too late to sow seeds of wallflowers, myosotis, primroses, Campanula pyramidalis and others in nursery beds for flowering next spring.

Keep closely after the climbing roses on pergolas, arches, etc., and spray them for insects, especially aphis.

Propagate arabis, aubretia and alyssum by seed and division, and, after the flowers are over, clip back the plants somewhat hard to prevent their getting long and straggly.

When thinning of fruit is practiced—and it should be everywhere—do it early, so that the trees are relieved of the strain of carrying the superfluous fruit.

Horticultural Inspection in Utah.

John P. Sorenson, horticultural inspector, submitted the following report for the month just ended to the county commissioners June 1: "In the month of May the deputy inspectors worked from 12 to 15 days each, as it was considered needful in the different districts, making a total of 78 days' work. In the first part of the month there were some 10,000 trees imported and about 25,000 sent out from the nurseries. Most of the imported trees, as well as the ones dug up in the nurseries, were sent out of the county and a large part out of the state.

"There were set out in the nurseries and planted about 700,000 seedlings, about 200,000 of which were foreign importations. The spraying for the codlin moth larva is now on and should be prosecuted with the utmost vigor during the next 10 days if we want apples free from worms. After we get through with the first summer spraying it will be time to search out and clean out the pear blight, if any of our trees shall be preserved."

Botanists at Philadelphia.

Thoroughness characterized the annual scientific assembly of the Botanic Society of Pennsylvania, which met June 5 in Biological hall under the auspices of the University of Pennsylvania at Philadelphia. A large audience was present and the field covered was a large one. Provost Harrison, the honorary president, called the session to order and delivered a felicitous address of welcome.

The programme of addresses consisted of the following: Miss Myra Dock, "A Little Journey in the Pennsylvania Forest Preserves;" Dr. Henry Leffmann, "Parisitism in Plants;" W. B. Davis and George B. Kaiser, "Botanical Wonders Revealed by the Micro-Lantern;" Dr. S. C. Schmucker, "Nature's Rotation in Crops;" Dr. Bertha M. Clark, "Parallelism of Vegetation Changes and Rock Changes;" T. H. Toothaker, "A Few Useful Plants." The most interesting number was the address of G. Nahai, the Japanese botanist, who spoke with a quaint accent on "Plant Scenery of Japan." His remarks were illustrated by means of some superior colored slides.

BROOKLYN, N. Y.—Aloysius Gross, who shot and killed his employer, John Scott, of 566 Midwood street, April 19, was arraigned for trial June 7. He pleaded guilty to manslaughter in the first degree. This plea was accepted by the court, and Gross saved himself from the death penalty, as he was indicted for murder in the first degree. Gross was remanded for sentence and he may get a sentence of 20 years. Subsequently this plea was withdrawn.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:
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They have no pride of birth,
No choice of regal bower;
The humblest, lowliest spot on earth
May claim the fairest flower.

A CLEAN start in a clean house is a good start for all crops, cut flowers, plants or vegetables.

REPORTS from peony growers respecting the behavior and reliability of new and standard varieties would be welcome.

FARMING ON PAPER.—An article in Market Gardeners' section, this issue, is well worth reading.

THE increased information re steamship sailings, relative to the piers from which the boats start and the time of sailing, will be of great assistance to retailers forwarding flowers to meet these sailings.

WHILE many are using concrete benches there are many others that favor wood benches and the excellent illustrated articles in this issue, in which practical and lasting benches are described and figured, will be of interest.

OUR Baltimore correspondent says that "no flowers" appears on some commencement invitations, so that Chicago is not the only city in which these joyous occasions are threatened with a funereal appearance. Fortunately, he says "the rule is the other way."

The general average condition of crop growth, based upon crops reported to the Department of Agriculture to June 1 was approximately four per cent below conditions on June 1, 1908, but about eight per cent better than on June 1, 1907. The reports include cereal, vegetable, hay and fruit crops.

As an instance of spirited local advertising the five-page announcement of J. W. Ross of Centralia, Ill., is worthy of mention. In the Centralia Sentinel Mr. Ross had this amount of space recently, covered with good illustrations, descriptions, prices, etc., of his specialties in plants, seeds and bulbs, quite a catalogue in short. This was on the occasion of his spring opening.

AT the risk of being charged with repetition we again urge on growers the need for care in handling poisonous insecticides and fumigating compounds. It is positively criminal to leave such things around where children, inexperienced or careless persons have access to them. A recent case is reported in England in which a boy took some nicotine preparation home from his work and his mother used it on two of her children's heads. Both were rendered unconscious, and their lives were only saved by prompt medical treatment.

THE Proceedings of the Seventh Annual Meeting of the Chrysanthemum Society of America contains an excellent portrait of President Elmer D. Smith, his report and also a full report of the meeting at the Coliseum, Chicago, in November last, including the reports of officers. The official judging scales are also given for commercial, exhibition, single and pompon varieties, as well as a list of all varieties disseminated during 1908 and descriptions, also a list of members and affiliated societies. All interested in the chrysanthemum should send for a copy to Secretary Chas. W. Johnson, Rockford, Ill., enclosing the membership fee of $2, an amount ridiculously small in comparison with the benefits accruing from membership in the national society.

Society of American Florists.

TRADE EXHIBITS.

Superintendent Wm. Murphy is out with a large circular including map and all details regarding coming exhibition. Write for it to Wm. Murphy, 311 Main street, Cincinnati, O.

Florists' Hail Association.

Another batch of losses, aggregating $5,000, are on the table of the secretary of the Florists' Hail Association. These will be paid as soon as adjustments can be made. This will be the banner year for the Florists' Hail Association in payment of losses, the present estimate being at least $25,000 for the year.

Greehouse Building and Heating.

Based on the past season's experience, growers will be formulating plans for new houses, alterations and improvements, heating apparatus, water supply and other work of a kindred nature. We would appreciate it if all who have this work in progress or in view would send us full particulars as to what they are doing or intend to do, the class of construction they intend to use and their various reasons for using it. Even if not planning work in the immediate future, criticisms or notes on the many appliances and aids along this line would be interesting and instructive to others looking for this information.

The Way the Wind Blows.

Mark Twain says the wind blows from the north, or the south, or the east, or the west, or some point approximating in those general directions.

Memorial day has again passed into history. It is certainly a beautiful custom of the Americans to honor their dead and more so that the custom belongs to no class or creed, but a generally accepted day for every one. The florist is benefited greatly and he should see to it that the flowers are reasonably fresh. Every year brings its quota of complaints and we should do all that is possible to keep that which gives the golden egg.

Almost a year since Alex. Wallace passed beyond, a man of sterling merit loved by those who knew him and respected by those acquainted in a business way. A man with more than ordinary talents, who, like most of those who cross the pond, worked hard and used them, and through sheer grit landed in the front ranks. I remember reading in a London horticultural journal an article pertaining to famous Scotchmen in America, men whom he considered in the front ranks of horticultural pursuits. Would it not be a pleasing thing if those men whom he eulogized would start a movement for a monument to his memory. The whole profession, I am sure, would join in with their mites and erect something to a man who made something out of nothing. It seems a pity that a man cannot know the esteem in which he is held before he dies, but such seems to be the way of the world.

I see my friend Elliott takes exceptions in a recent issue of THE FLORIST. Mr. Elliott need not feel so bad, for it is only the top-notchers that get criticized. Men from whom we expect to learn something. Just look at Prof. Corbett about refraction. The bunch got after him like a gang of Kilkenny cats, with their claws sharpened. Having passed the third degree and all the various degrees in all stages, I am delegated to act as shepherd of the florist flock and keep the members right in line. To return to friend Elliott, his reasoning, theory or otherwise, which he don't seem to be quite sure of him-

self, about the blanket of cold air, seems to be out of place in nature. I could give him a mass of figures, but he would probably say I was wrong. I received a letter from a friend in Boston, thus: "Dear Raffia Strings. At a lecture given by a representative of Lord & Burnham before the Boston Gardeners and Florists' Club some years ago, Mr. Montgomery in reply to Mr. Stevens said regarding the upper air of his big house, that the difference in temperature six feet above the floor of the house and that of the upper air, almost at the ridge, was only two degrees, that of the top air being higher." Asked by the same gentleman if he noticed any higher temperature in the upper air on a cold night with the wind from the south, the reply came: "On cold nights the wind never was from that point." Now those two gentlemen have different opinions and I will let the trade judge who is right. I thank that friend very much. He signed himself F. P. Whether he meant fair play or not I don't know, but probably the New Hampshire air makes all the difference in the greenhouse heating.

I see Peter Bissett had a paper read on water plants before the Boston Club last month. Boston was never great on water. I remember some of the Boston delegation and also the New York delegation who visited Washington some years ago drank water and were promptly sick. Word is always passed along when they go from home to be careful of the water boys. They always take the precaution to mix it.

Some peculiar events happen these days. Isn't it about time we had a report of the proceedings of the Ananias Club? Last fall W. N. Rudd issued a notice in THE FLORIST that the above named club would hold session at Chicago at the National Flower Show. I and many more were surprised that the call should come from such a man as Willis. We had no idea that he was eligible for membership or office holding in the above association, but others see just as funny things as RAFFIA STRINGS.

Meetings Next Week.

Detroit, Mich., June 21, 8 p. m.—Detroit Florists' Club, Cowie building, corner Farron and Gratiot streets.

Grand Rapids, Mich., June 21.—Grand Rapids Gardeners' and Florists' Club, Board of Trade rooms, Pearl street.

Hartford, Conn., June 25, 8 p. m.—The Connecticut Horticultural Society, County building.

Montreal, Que., June 21.—Montreal Gardeners' and Florists' Club, Royal Guardians' building, 211 Sherbrook street, West.

New London, Conn., June 23.—New London County Horticultural Society, Elks' hall.

Providence, R. I., June 21, 8 p. m.—Florists' and Gardeners' Club of Rhode Island, 96 Westminster street.

Toledo, O., June 23.—Toledo Florists' Club.

Winnipeg, Man., June 24.—Winnipeg Florists' Association.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—By experienced seedsman, either in house or on road.
Address Key 833, care American Florist.

Situation Wanted—By florist who thoroughly understands the growing of cut flowers, pot plants, ferns, palms, nursery stock; state wages in first letter; strictly sober; good designer.
Key 837, care American Florist.

Situation Wanted—By experienced grower of roses, carnations, violets chrysanthemums decorative and bedding plants; middle aged single, sober; state wages. Address
Key 822, care American Florist.

Situation Wanted—By sober, young man; 24; experienced as rose carnation and 'mum grower; capable of taking charge of section or commercial place; kindly state wages. Address
Key 824 care American Florist.

Situation Wanted—By practical all 'round man; inside or out; private or commercial; eight years in last position; married; English; 25 years' experience on private and commercial places. Address Key 821, care American Florist.

Situation Wanted—Gardener, 20 years' experience; German, single capable of managing and taking care of private place or grounds; am an all around handy man with tools; good Christian, honest, sober and industrious; best of reference.
Key 832, care American Florist.

Situation Wanted—Near Phila., as manager or working foreman on commercial or private place; 10 years experience in growing carnations 'mums, vegetables and bedding plants; age 28; married; best of references; state particulars.
Key 828, care American Florist.

Situation Wanted—By young married man, German, as foreman and grower of carnations; can also grow roses and other plants; am strictly sober and good worker; when writing state highest wages you are willing to pay, also full particulars.
Key 830 care American Florist.

Help Wanted—Competent carnation grower to take section under foreman.
G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

Help Wanted—Experienced grower of carnations and roses; state experience and wages wanted. THE BRENNER FLORAL CO.,
Shawnee, Oklahoma.

Help Wanted—Expert store man and decorator; must have ability and be of good address; state salary and former employers.
L. F. DARNELL
1035 Prospect Ave., Cleveland, O.

Help Wanted—Florist for general greenhouse work; experienced in propagating potted plants and care of outdoor work; if married man can furnish residence; first-class opportunity.
NEAL & CO., Lebanon, Ind.

Help Wanted—Experienced seedsman especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist

Help Wanted—A good working foreman, middle aged married man preferred; no booze fighters; this is a desirable place; good surroundings and five room house.
L. SWARTHOUT, Washington, Pa.

For Rent—Four greenhouses in good condition, good home trade R. VIRUS,
1939 W. Leland Ave., Jefferson Park, Chicago.

For Sale—Greenhouse property; 10,000 feet of glass; ideal location; write for particulars to
Box 114, Lansing, Mich.

For Sale—A valuable greenhouse property in a good town; no competition; ill health.
DWIGHT GREENHOUSES, Dwight, Ill.

For Sale—Greenhouse in Salida, Colorado 6000 feet of glass, good trade, no competition; price low; address owner.
J. H. FREEMAN, Salida, Colo.

For Sale—First-class florist's establishment on the south side, Chicago; a bargain; must be sold atonce; owner leaving city. Address
Key 831, care American Florist.

For Sale—$3000 on easy terms will buy a desirable florist business in Tennessee; about two acres of ground, four greenhouses, barn, outbuildings and a nice 3-room cottage. Address
Key 838 care American Florist.

For Sale—Two firebox return flue pattern hot water boilers, used four years; will heat 6,000 ft. 4 in. pipe. Price $215.00 each. One Kroeschell pattern hot water boiler, used four years; will heat 4500 ft. 4-in pipe. Price $190.00; complete with grate bars, smoke box and ashpit doors. All in good condition. 5000 ft. 4-in cast iron pipe at ten cents per foot. 2000 ft 5-in. cast iron pipe at twelve cents per foot. Three No. 2 Morehead steam traps in good working order at $45.00 each. One high pressure steam pump 3-in suction, 2½-in. discharge; in running condition; price $500.00. Sixty Evans ventilator arms, complete at twenty cents each. Address GEORGE REINBERG, 51 Wabash Ave., Chicago.

WANTED --- At Once

A good grower of roses, carnations, 'mums and general line of pot plants; must be able to produce results; permanent position and good pay.

——Address ——

Key 839, care American Florist.

Situation Wanted.

By florist and all-around grower; capable of taking entire charge.

Key 829, care American Florist.

Make Your Want Known

If you want to get rid of it. A want advertisement in the

AMERICAN FLORIST

will do what you want. Try it now. Back of every ad is a real want, so it pays to answer them. : : : : :

The Season is Late

AND THERE IS STILL

HEAVY DEMAND FOR

BEDDING PLANTS
WINDOW BOX PLANTS
PLANTS FOR VASES

Advertise Your Surplus Now.

Peonies Our local growers are just coming in. The supply is large and the quality fine.

Killarney Coming in splendid quality; none better to be had in this market.

American Beauty in large supply; fine quality.

Carnations In large supply. Fancy Valley always on hand.

Complete Stock of Florists', Growers' and Nurserymen's Supplies.

Send for our Weekly Price List unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496 Private Exchange All Departments. **Chicago.**

St. Louis.

GLUT OF STOCK.

The past week has seen one of the worst gluts of the year. The wholesalers wear a tired look as they see their counters filled with flowers of all kinds and little or no demand. Carnations have been selling all week at 5 and 10 cents per dozen, roses 10 cents. What the grower gets the less one talks about the better, but this state of things disgusts any one. Surely the grower would do better to dump such stock or carefully go over it and ship only the best. Outdoor flowers add to the situation, but it is to be hoped we have passed over the worst and with the throwing out and cleaning up the supply will be lessened and a more normal state of things will prevail. Weddings and graduating exercises have been the only redeeming features. The last of the month will end these and then comes the dull months.

NOTES.

The illustration herewith shows the

Fancy and Dagger FERNS $2.50 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway, All Phone Connections. DETROIT, MICH.

FANCY.

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

New Crop Fancy and Dagger Ferns, $2.00 per 1000.

WE NEVER DISAPPOINT. SATISFACTION GUARANTEED.

DAGGER.

DECORATIONS AT WILL YOUNG'S BIRTHDAY CELEBRATION AT ST. LOUIS.

E. A. Beaven

LOG MOSSES

Natural and Perpetuated.

Special prices for quantity lots for future delivery.

EVERGREEN, ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.

Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., **NEW YORK**

New Crop Ferns

FANCY and **DAGGER** ready May 1st.

Special price for large orders

Price $1.25 per 1000.

CALDWELL THE WOODSMAN CO.,

Evergreen, Alabama.

John P. Scherer, 636 Gardener St., Union Hill, N. J.

Telephone 328 L Union. **Smilax Ferns, Palm Leaves** and all kinds of **Green Goods.**

decorations at the villa cascades and sunken gardens at the Delmar gardens by W. C. Young, Jr., on the occasion of the celebration of his father's fifty-second birthday as reported in our last notes on page 1015, issue of June 12. These decorations were very creditable. Around the tank were S. A. Nutt geraniums, bordered with Mme. Salleroi, while around the water were groups of flowers and shrubs and 20 fine vases of vines and flowering plants. The whole affair was a great success.

The Florists' Club meeting took place last Thursday; Will Young in the chair and 21 members present. The picnic was announced to take place July 21 at Ramona park. Sports and games of all kinds will be indulged in, the ball game between the wholesalers and retailers being the most important event. The retailers have determined to turn the tables and are talking loudly of what they expect to do, but the wholesalers are taking care of their end and only figure by how many runs they will win the game.

Geo. Waldbart had the closing exercises at the Mary institute; the colors were white and green. George is now receiving some very fancy sweet peas from his place at Clayton, and he has cut a great many peonies.

Alex. Siegel and Kahrs Floral Co. had special sales of carnations at 5 and 10 cents per dozen. No ferns or boxes were given with these, and all deliveries were made with extra charges.

J. Quinn has removed a few doors south near the corner of Tenney and Grand to a larger and more commodious store.

The Mullanphy Floral Co. is building a new store north of the present location and expects to run the two.

W. F.

For Commencements, Weddings
AND GENERAL WORK

We Shall Have an Immense Stock of Beauties. Roses and Carnations. Roses Very Cheap.
We Have a Large Range of Glass Planted Especially for Summer Flowers.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00
24 inch	2 00
18 inch	1 50
12 inch	1 00
Shorter stems	50 to 75

KAISERIN, KILLARNEY, RICHMOND

	Per 100
Long and select	$8 00
Good average lengths	$6 00 to 7 00
Medium lengths	5 00
Short lengths	3 00

CARNOT, BRIDE and PERLE.

Long and select	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$ 2 00 to 3 00
Short Roses in not less than 500 lots, per 1000	$15 00

CARNATIONS.

	Per 100
Fancy, long, Red O. P. Bassett	$2 00
White and Winsor	2 00
Enchantress, fancy	2 00

PEONIES, Pink and white, per 100	$ 3 00 to $4 00
EASTER LILIES, per 100, $6 00; per doz	1 00
LILY OF THE VALLEY, per 100	3 00 to 4 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, New Crop, per 1000	2 00 to 3 00

Bassett & Washburn,
Store and Office: 76 Wabash Ave. **CHICAGO.** **Greenhouses: HINSDALE, ILLINOIS.**

Cincinnati.

ROSES VERY POOR.

With the volume of business of midsummer proportions and every express wagon bringing more consignments it is an easy matter to figure results. Peonies and carnations are the biggest kind of a glut. What few good roses there are command good prices, the majority, however, being mildewed and growing smaller every day; in fact it would pay the grower to keep them at home as they are absolutely unsalable. Lily of the valley and sweet peas are fine in quality and find a ready market. Shasta daisies are to be had in limited quantities, Tom Windram being first in the market with these. There is a good call for green goods of all kinds with a bountiful supply.

FLORISTS' SOCIETY AND S. A. F. MATTERS.

The regular monthly meeting of the Florists' Society was held Saturday night in the club rooms with a good attendance. The time was taken up with all matters pertaining to the convention. Dan Carmichael for the souvenir committee stated that the books will be ready by July 10. Wm. Gardner for the shooting committee reported everything in readiness for the shoot and would like very much for all members of the S. A. F. wishing to compete to drop him a line that he will know how many there are to be provided for. Frank Dellar, who has baseball affairs at his fingers' ends, says he will have his ball team right on edge and we will see a fast and intelligent team when they go on the field to represent the Queen City next August.

NOTES.

Gus Meir of the Hyde Park Rose Co. is very anxious to begin throwing out the old rose plants and get the young stock on the benches but, owing to the continual rains, it is impossible to get the soil into the houses. His only wish is that we have a week of dry weather so he can get the work under way.

Quite an event in society the past week was the marriage of Chas. M. Bosworth of the J. M. McCullough's Sons Co. to Miss Natalia Breed of Grandin road. The local press furnished an elaborate account of the wedding and the young couple have the best wishes of a host of friends.

A wedding of interest to those engaged in the business was the marriage of Joseph Linfoot of College Hill to Isabella D. Ross. The wedding was a quiet home affair and was celebrated at the home of the bride on McMillan street, the Rev. James Cosby officiating.

Frank Ball and Fred Gear were two of the craft of this city to go with the Shriners to Louisville, Ky., the past week and report having had a delightful time. Frank Ball says the ball at the armory was the grandest affair he ever feasted his eyes upon.

Louis Kyrk is handling some of the best sweet peas coming into the market.

Has anybody seen C. E. Critchell of late?

S.

All Specialties
— FOR —
Garden Parties,
June Weddings and
School Exercises
Should Be Closed Out Now
TRY A FLORIST AD.

Choice Carnations and Peonies

AT THE LOWEST MARKET PRICE. Special price on large lots.

CHICAGO CARNATION CO., **A. T. PYFER, Mgr.,** **Joliet, Ill.**

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

The Trade vs. the School Board.

The trade in Chicago is loud in its praise of the movement started by THE FLORIST to secure the repeal of the rule now in force prohibiting the presentation of flowers at school exercises. This movement is of vital interest to every man who sells flowers, whether grower, commission man or retailer, and the success of the movement depends on the concerted action of every one connected with the trade. Continual and continuous plugging and the working of every angle is needed to accomplish any results. Simply because there is no immediate return in dollars and cents is no excuse for any man to be lukewarm. It may mean a year of fighting, but it is almost trite to say that nothing is worth having that is not worth fighting for. There are one or two dissentient voices, but these are just as welcome to our columns as those who favor the lifting of the ban, an open argument being in every sense desirable. We print below a few more comments:

ED. AMERICAN FLORIST:—

Will be pleased to co-operate with you in trying to persuade the school board to again allow flowers at the commencement exercises as in former years, and will gladly donate our share of flowers to the children that are unprovided for at the exercise.

WIETOR BROS.

ED. AMERICAN FLORIST:—

We are certainly in sympathy with the movement in progress in regard to the flower question, with reference to the school closing, at the exercises of which flowers are banned at the present time. Anything that can be done to open up the field again so that flowers can be presented to the pupils at their closing exercises will of course be a benefit to all the florists.

GEO. WITTBOLD CO.

ED. AMERICAN FLORIST:—

In regard to the matter of presenting flowers to the graduates at June commencements I beg to state that I take the view of President Schneider, and in my opinion it would not be a good idea to present flowers to the poorer children for the simple reason that the flowers donated would be of an inferior grade and the children receiving these flowers would feel slighted anyway. Probably this is not a businesslike view, but stands for my personal view of this matter.

ERNST WIENHOEBER.

ED. AMERICAN FLORIST:—

I fully believe the old rule prohibiting the giving of flowers to the graduates at the commencements should be rescinded. It seems to me the board has taken something in its own hands that is unjust in every detail. Florists of this city have felt it very much from a business standpoint. We have all looked forward to a busy month in June up to the time this unfair rule was established. Many a father, mother or friend would like to send flowers to their dear ones on this occasion, but under these existing circumstances they cannot do so. I may say here, I think there are many persons who never think of buying a bunch of flowers only once a year and that once is commencement time. I sincerely hope something will be done.

W. J. SMYTH.

ED. AMERICAN FLORIST:—

We think it is a good move in the right direction that THE FLORIST, through its representative, T. C. Yarnall, is making, in getting the trade interested again in trying to have the order rescinded, putting a ban on cut flowers being sent to children at the public schools of Chicago, for commencements. This rule was established by the late Superintendent Cooley some few years ago. Efforts were made at that time to have the order rescinded but the power wielded by Mr. Cooley was too much for the body of florists who went before the board of education. All arguments had no effect. Our committee was told that they

Wholesale Flower Markets

ST. LOUIS, June 16.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 4 00
" Chatenay	2 00@ 4 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 5 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 4 00
" Rhea Reid	4 00@ 6 00
" Richmond	2 00@ 6 00
Carnations, fancy	1 50@ 2 00
" common	50@ 1 00
Lily of the Valley	2 00@ 3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, dagger, per 1000	2 00
" fancy, per 1000	3 00
Smilax	12 50

CINCINNATI, June 16.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch	50c
Boxwood, per lb.	15c
Ferns, Eastern, per 1000	$1 50
Galax, Green and Bronze	1 00
Leucothoe, per 100	50
" per 1000	4 50
Smilax	1250@15 00

BUFFALO, June 16.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	1 00@ 2 50
Callas	8 00@10 00
Cattleyas	60 00@75 00
Daisies	75@ 1 50
Lilac	25 00@50 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	1 00@ 2 00
Pansies	40@ 50
Peonies	2 00@ 5 00
Sweet Peas	50@ 1 00
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Smilax strings	15 00

MILWAUKEE, June 16.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodills	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

RICE BROTHERS

Wholesale Florists and Supplies,

115 N. 6th St., MINNEAPOLIS, MINN.

CUt Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

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WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Wietor Bros.,

Wholesale Growers of
..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75
	Per 100
Killarney, select	$ 6 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Valley	2 00 to 4 00
Daffodils	3 00 to 4 00
Callas	8 00 to 15 00
Asparagus Plumosus Extra quality, per bunch	75c
Fancy Ferns, per 1000	$ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

JUNE WEDDINGS
and School Closing Exercises

WE OFFER SOME VERY CHOICE STOCK

AMERICAN BEAUTIES

These are grown specially for summer use, and are the best Beauties hat can be found on this market. Try them and be convinced.
Also extra good quality

Maid, Bride, Richmond, Killarney and Kaiserin Roses

We also offer **CARNATIONS**

of the choicest varieties, the quality of which is unsurpassed on this market.

SWEET PEAS

with us are certainly fine. We have them in the light pink or Enchantress shade, lavender, red, white, and navy blue, an excellent violet shade.

PEONIES

We have them in white, pink and red; the quality of them being **unexcelled.**

We can supply you with fine

Valley, Smilax, Asparagus, Adiantum

and all other stock in season.

Send in your orders and secure the BEST THE MARKET AFFORDS

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

could pin flowers on the walls of the school rooms if they wished; that was the best they could do for us.

Now that the czar (Mr. Cooley) is no longer superintendent of schools, we hope the trade of the city will get together and assist Mr. Yarnall. The florists are losing at least $100,000 every year by this rule. Before it was in effect, the florists were busy up to July 1, with school commencements, which gave them a nice profit, and was figured on as a busy month. Now business is practically shut down June 1, excepting for the weddings.

Mr. Cooley said it was made to protect the poor who could not afford to buy flowers. We ask them, why not do away with the costly fads like collecting and exacting money in schools for pictures, statuary, etc., and give the poor cheaper books? Why this class legislation against one line of business and not against others? The school board should see that the children end the school year with as much happiness as possible. It is the one thing children talk about and work and long for, months before; and when the last words are spoken and they are applauded, why deprive them of receiving a bunch of flowers, which is so appropriate and makes their hearts glad? POEHLMANN BROS. CO.

ED. AMERICAN FLORIST:—

May a New Yorker, who admires the progress of the west, butt into the controversy concerning graduation flowers? In your issue of June 12 I notice but one side given, that of trade. There appears to be considerable soreness evinced in the letters giving rise to statements that "there is no such thing as equality in this life," and "Ex.-Superintendent Cooley's position smacks too much of socialism."

I think that every florist realizes that the public in general has one best bet up its sleeve, and that is this: In dealing with our craft they are not oversure in confidence of "such things as equality," nor do our business exactions "smack of socialism." A craft which as a general practice will make public by talk and the trade papers monetary and other details of funeral orders, for instance, can hardly be expected to hesitate at hurting the feelings of poor children who upon one proud day of their youth must bear the injustice of having no blossoms for their graduation. For what more natural than flowers and children together, but never when some must go without. It is hoped that most of your writers have gone through a graduation in early life and not forgotten all it meant.

There is rather too much intent to consider our vocation as a bartering medium on a basis with shoestrings and peanuts instead of a calling which should demand the highest ethics in laying forth our product. If your Chicago board of education could be induced to grant each year as a necessary outlay a certain amount for floral decorations in schools at commencement time, and then after the exercises divide among the graduates some share of flowers, they would then be valued the more as, from Alma Mater; none would be slighted and I think the florist would feel more comfortable with the proceeds, if his scruples against socialism did not hold him too fast by the coat-tails whilst it urged him in the wrong direction. CARL STUMM.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

—CONSIGNMENTS SOLICITED.—

Special attention given to Shipping Orders.

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Price List on Application.

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WHOLESALE DEALERS IN

FLORISTS' SUPPLIES and Cut Flowers

1203 Sutter St., SAN FRANCISCO, CAL.

"THE BUSIEST HOUSE IN CHICAGO."

We want you to know that we have the

Largest and Best Peonies

IN THE MARKET.

All Other Flowers in Season.

J. B. DEAMUD CO., 51 Wabash Ave., **Chicago**

Chicago.

DULL SEASON APPROACHING.

While the condition of the flower market remains practically unchanged from that reported a week ago, there has been a slight falling off in the demand all along the line that, to the man who has his ear close to the ground, presages the approach of the dull season. As is usual at this time, peonies are the prominent factor, and the abundant rain that we have had has brought one of the largest crops that have ever come into this market.

A GLUT OF PEONIES.

A great many shipments are reaching the market in such an advanced stage that it is hard to realize the charges on them, while had they been cut and shipped close they would have brought a good price. This great mass of poor stock has had a tendency to lower the price on the choice flowers, and they are not bringing what they did a year ago. This in turn has had its effect on all other flowers, and while the volume of business is possibly larger than at this time last year, the returns are not so satisfactory.

ROSES ALSO SUFFER.

Good American Beauty and some of the summer roses are in fair demand and are bringing good prices, but there is a great deal of winter stock now on the market that is mildewed and thrips eaten which is very hard to move at any price. Kaiserin and Killarney are probably next in importance, and are uniformly good, while Bride and Bridesmaid are not as large a factor as they have been.

SWEET PEAS AND CARNATIONS.

A great many sweet peas are reaching the market in very poor condition and for these there is no demand at all, while the small proportion of good stock is moving freely at fair prices. Carnations are still coming in in large quantities and of extra fine quality, considering the season, but the demand for good stock is limited and the balance is being sacrificed. In fact, any sale is a good sale and any price is a good price. While the abundant rains of the past few weeks have been especially favorable to the peony crop, it has just the opposite effect on the small outdoor flowers and they are not as plentiful as in former years; in fact, up to the present time, their presence has not been appreciably felt.

NOTES.

E. A. Riehl, the peony grower of Alton, was here for a few days this week inspecting the different peony fields around the city. He states that he has shipped over 4,000 dozen peonies to the J. B. Deamud Co. this year. In this connection J. B. Deamud says that peonies which are being cut and received in prime condition by the wholesalers are bringing good money, both in Chicago and for shipment. Other peonies which are too far advanced are being sold for whatever price they will bring.

At a meeting of the florists on Saturday, T. C. Yarnall of THE FLORIST was instructed to appoint a committee to wait on the school management committee of the board of education with a view to having the board rescind its rule prohibiting flowers at school exercises.

John Lambros has secured the concession from the Union Loop Co. to sell flowers on the loop platforms, and has been doing a thriving business the past week. He has proved a very good outlet for the overcharged market, though some of the retailers are complaining that he is hurting their business.

G. Raedlein of the firm of R. Raedlein, basket manufacturers of Weidhausen and Ebersdorf, Germany, has opened a stock room at 375 Milwaukee avenue. This house is one of the oldest in the business, having been established in 1851.

The greenhouses in Garfield park are in a dilapidated condition, and the park commissioners have asked for bids for rebuilding along the lines of the original specifications. The bids will be opened next Tuesday.

A. L. Randall left on Saturday last for Conneaut, O., to attend a family reunion. His brother Webb joined the family group on Monday. This is the first time in 22 years that the family have all been together.

Mrs. Moore, of N. C. Moore & Co., who was taken ill on the market on Decoration day, is still confined to the house. Miss Tonner is looking after her business on the Flower Growers' Market.

The A. L. Randall Co. was showing some especially fine Killarney roses this week. They stood out especially strong alongside the great mass of poor stock that was visible all over.

All lines led to the Cub ball park on Wednesday when the World's Champions raised their new flag. Leonard Kill was in the forefront of the fray.

Victor Bergman, buyer for Ernst Wienhoeber, was the guest of J. B. Deamud on a visit to the Vaughan peony beds at Western Springs on Friday.

J. G. Crozer of Cedar Rapids, who was on the market this week, reports an exceptionally good year and says he is glad he built his new houses last fall.

O. B. Stevens of Shenandoah, Ia., revisited this week the school he attended 31 years ago. He was the guest of his son while in the city.

O. P. Bassett returned on Saturday from a two weeks' automobile trip. He reports the roads around West Baden uniformly good.

Visitors: E. A. Riehl, Alton; R. R. Davis, Morison; J. G. Crozer, Cedar Rapids, Ia.; O. B. Stevens, Shenandoah, Ia.; A. Weaver, Massillon, O.; W. W. Coles, Kokomo, Ind.; H. Greensmith, Cincinnati, O.

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in **Peonies, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

Birmingham, Ala.

Business has been very good in all lines. Stock is scarce and several new houses are being built.

Wm. Lindsay has retired from the florist business and gone into wholesale furniture dealing.

Hugh Seales has opened a new store at 317 North Nineteenth street, City hall, and reports business good.

ALA.

Green Worms on Chrysanthemums.

ED. AMERICAN FLORIST:

Do you know of anything that will kill the green worm, the kind that turns into a butterfly? The worms are bad on the chrysanthemums. Tobak-ine helps to kill them.

N.

The preparation you mention is an excellent one for many insects, but for this particular grub we have found nothing so good as spraying with hot water. The proper temperature is around 130°; much less will not kill the insects while a much higher temperature will injure the plants. Arsenical sprays, kerosene emulsion and pyrethrum are also useful, and, of course, hand picking. Endeavor to keep the butterflies out of the house as much as possible to prevent their laying their eggs on the plants.

G.

EASTON, PA.—Paul Kaffke will open a retail store at Third and Church streets.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

SEND FOR PRICE LIST.
76 Wabash Avenue, CHICAGO.

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street,
CHICAGO.

L. D. 'Phones Central 1978 and 1977.

KENNICOTT BROS. COMPANY

WHOLESALE CUT FLOWERS

48-50 Wabash Ave., Chicago
L. D. Phone, Central 466.

We will have anything in the line of
CUT FLOWERS and GREENS
that you may want if anybody has it at
Chicago market prices on day of shipment.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue. CHICAGO.

Vaughan & Sperry,

Wholesale Florists,

56 and 80 Wabash Ave., CHICAGO
WRITE FOR SPECIAL PRICES.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

Long Distance Phone, Central 6004. Catalogue Free.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

Mention the American Florist when writing

Wholesale Flower Markets

CHICAGO, June 16.

Roses, Beauty, extra select		3 00@4 00
" " 30 in		2 50@3 00
" " 24 in		2 00@2 50
" " 20 in		1 50
" " 15 in		1 25
" " 12 in		1 00
" " Short		75
	Per 100	
" Bride, Bridesmaid, select	4 00@6 00	
" " medium	3 00@4 00	
" Chatenay, Sunrise	3 00@6 00	
" Golden Gate, Uncle John	3 00@6 00	
" Kaiserin	3 00@8 00	
" Kate Moulton	3 00@8 00	
" Killarney, select	6 00@8 00	
" " medium	4 00@5 00	
" Mrs. Marshall Field	4 00@6 00	
" Mrs. Potter Palmer	4 00@8 00	
" Perle	6 00@8 00	
" Richmond, extra select	6 00@8 00	
" " medium	4 00@5 00	
Carnations, select, fancy		1 50
" common		1 00
Callas per doz.		1 00@1 50
Cattleyas per doz.		6 00
Daisies		75@1 00
Forget-me-nots		1 00
Lilium Harrisii per doz.		1 50@2 00
		15 00
Lily of the Valley		3 00@4 00
Peonies, select		2 00@6 00
Snapdragon, per bunch		1 00@1 50
Sweet Peas		75@1 00
Adiantum		75@1 00
Asparagus Plum. strings..each		50@ 60
" sprays		2 00@4 00
" Sprengeri		2 00@3 00
Ferns per 1000		3 00@4 00
Galax, green..per 100	15; per 1000	1 00
" bronze, per 100	15; per 1000	1 00
Leucothoe sprays		75@1 00
Smilax strings ....per doz.		1 50

Quality Counts..

Let us have your next order for
Roses and Carnations
and other Seasonable Flowers.

JOHN KRUCHTEN,
51 Wabash Ave., CHICAGO.

WEILAND AND RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.

WHOLESALE FLORISTS

Zech & Mann

Wholesale Florists

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NOTICE!

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New York.*

TRADE BETTER THAN LAST YEAR.

Business has been moving along very quietly during the past week. While everything is rather slow, it is generally conceded that present conditions are an improvement over those of a year ago. Though weddings have not greatly enriched the florists, they have helped some. School commencements are expected to bring in considerable business during the remainder of the month. Happily, there is not, so far as we are aware, any ban here on the pleasing custom of presenting the sweet girl graduate with a bouquet.

The American Beauty roses that have been coming in during the past week have been of rather indifferent quality and this stock has moved slowly. Peonies are now plentiful. Though the home crop has been slow in going out, some very fair stock has been shipped here from southern points. The peonies while they last will, as a matter of course, put a damper on all other stocks.

June 14.—The market is weak and inactive this morning with falling prices. Much inferior rose stock is coming in. There are plenty of peonies but this week is likely to bring the finish of Festiva Maxima, which sells if anything in peonies can be sold. Though a few carnations are selling for three cents, $2-$2.50 per 100 are the ruling prices for the best varieties. Lily of the valley is one of the best sellers.

NO BAN ON COMMENCEMENT FLOWERS.

In this connection, we heartily sympathize with the members of the trade in Chicago who are seeking to have an unreasonable rule set aside. Possibly the people who are trying to banish flowers from commencement exercises, funerals and other public events think they are right. We have no doubt that those, in the years and centuries that have passed, who upheld human slavery, religious persecution and kindred horrors, also believed that they were right. Considering the amount of what the colored preacher called "low down cussedness" that must be combated in this country of ours, we think that preachers and teachers cannot do better than to fight it with renewed vigor, without wasting their energies on innocent and pleasing customs.

NOTES.

Aloysius Gross, who shot and killed John Scott, the well-known Brooklyn florist, created a great sensation in part five of the supreme court, before Justice Maddox, on June 14. Gross had been permitted to plead guilty to manslaughter in the first degree, the maximum penalty for which is 20 years in prison. He was remanded for sentence on the above named date. Greatly to the surprise, apparently, of his attorney, Edward J. Reilly, as well as others in court, Gross asked permission to withdraw his plea of manslaughter and take his chance at being tried for murder. Justice Maddox ordered Gross back to jail and directed him to prepare for trial in two weeks.

Miss Ella Ballard, for the past four years bookkeeper for A. H. Langjahr, the well-known wholesaler of 55 West Twenty-eighth street, died in Brooklyn June 11. About a month ago, on account of failing health, she resigned her position and since then, it is understood, has been under medical treatment. Miss Ballard was a faithful and efficient young woman and her kind and engaging manner won her many friends who sincerely mourn her untimely death.

The venerable N. Hallock of Queens was an interested and interesting visitor to the peony exhibition. Mr. Hallock formerly owned the land now known as the Cottage Gardens. Though now 87 years old, he would easily be taken for a man of 60 or even less. The late lamented E. V. Hallock was his nephew.

E. Allen Peirce of Peirce Bros., Waltham, Mass., was in the city June 12 to 14, and visited the peony exhibition at Queens. The Peirce Bros. are noted throughout New England for the great crop of Easter lilies which they annually send to market.

Schedules in bankruptcy of the Fleischman Floral Co. show liabilities $108,991, and assets $20,748, consisting of cash $65, stock $4,000, fixtures $5,000, autos, wagons and harness, $4,400, and accounts $7,283, due from about 300 customers.

Far be it from us to do any "knocking;" nevertheless, it did seem that leading men of both the wholesale and retail trade of this city might have taken more interest in the peony exhibition, as it was held almost at their doors.

Alexander Scott, Sr., member of the firm of Robert Scott & Son, Sharon Hill, Pa., was a visitor during the peony exhibition. It will be recalled that the rose, Mrs. Jardine, was disseminated from the Scott range.

Professor John Craig of Cornell University came down from the nurserymen's convention in time to visit Queens, where he efficiently presided over the deliberations of the American Peony Society.

Robert M. Schultz of Madison, N. J., is shipping to J. K. Allen a remarkably fine line of Richmond roses. These are deserving of special mention, as is this season Richmond is, as a rule, very poor.

W. A. Peterson, of Chicago, who has been here attending the peony exhibition and convention, was not well pleased on account of his peonies not being in bloom in time for the exhibition.

Walter F. Sheridan is handling very fine tea roses considering the lateness of the season. Mr. Sheridan is not a man who wants the whole earth, but what he does get he wants it to be A1.

John Seligman of West Twenty-sixth street is smiling. To be sure that is not unusual for John, but this time the cause thereof is a baby boy and all doing well.

Wm. Enggren of Woodhaven, who is a familiar figure in the flower markets of the Coogan building, visited the peony exhibition at Queens, accompanied by Mrs. Enggren.

Peter F. McKenney, formerly with Chas. Thorley, opens his new store this week at Fifth avenue and Forty-second street.

Mrs. Emma Jackson was granted a divorce from her husband, Andrew Jackson, of Fulton street, June 9.

*Remember the Florists' Club outing July 1, and make no arrangments that will interfere with your being p esent.

New York Florists' Club.

The regular monthly meeting of the New York Florists' Club was held on the night of June 14 in the Grand Opera House building, with a good attendance. Resolutions on the death of Herman Dreyer, a member of the club, were read and adopted; also resolutions on the death of John Scott.

The committee appointed at the May meeting in relation to a plant market reported. It is its wish to secure a permanent lease on the ground now occupied at Canal and Washington streets, and they ask the co-operation of the club to assist in maintaining the present site, without compensation or graft. John Birnie and Charles H. Totty spoke in favor of the report and suggested A. L. Miller, a member of the club, as a suitable man to wait on the board of aldermen and properly state the situation. On motion the following committee was appointed to wait on the aldermen: A. L. Miller, Anton Schultheis, Herman C. Steinhoff, John Birnie and Frank Traendly.

Frank Traendly, for the transportation committee, reported that the Central railroad of New Jersey and the New York Central railroad had agreed to make a one-way rate to the S. A. F. convention at Cincinnati of $15.15.

Chairman Bunyard of the outing committee reported progress. Gratifying success has attended the efforts of the committee in securing contributions for prizes. The souvenir will be ready in one week.

W. A. Manda, South Orange, N. J., exhibited a fine collection of flowers of hardy herbaceous plants, including Dianthus deltoides, D. crystal, D. albus, Country Lassie and Crimson Eye. Also Aquilegia chrysantha and Campanula celtidifolia, for which he was awarded a cultural certificate.

W. P. Roy of 15 Barclay street, Chas. Peters and Wm. Peters of Hempstead, N. Y., were proposed for membership in the club. There was a spirited discussion over the appointment of a nominating committee. F. W. Wagenfohr thought that nomination should be from the floor. Patrick O'Mara said that the fact of nominations being made by a committee deprived no member of the right to vote for whom he pleased, and he added that the members had a month to think over it. After considerable discussion, part of which was amusing, the following nominating committee was appointed: Chas. Weathered, Chas. H. Totty, J. A. Manda, Jas. McManus, W. J. Elliott, John Birnie and Harry Bunyard. The following committee was appointed to prepare suitable resolutions on the death of Chas. L. Allen: Patrick O'Mara, W. A. Manda and — Hendrickson.

Samuel Luba, an employe of the department of city parks, asked the co-operation of the club in securing the park gardeners a wage rate of $90 per month; $2.50 per day is the present wages. Robert Berry spoke in support of Mr. Luba's request and scattered some fine bouquets of oratory in this connection. The matter was referred to the legislative committee. This was the closing meeting for the season and adjournment was taken till September. In the interim, many things are likely to happen.

J. K. ALLEN, Wholesale Commission Florist.

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PERKINS & NELSON,

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Room 112 Coogan Bldg. Cor. 6th Ave. and 26th St. NEW YORK.

Wholesale Flower Markets

	NEW YORK, June 16	Per 100
Roses	Beauty, special	12 00@15 00
"	" fancy	10 00@12 00
"	" extra	6 00@ 8 00
"	" No 1	2 00@ 3 00
"	" No. 2 and No. 3	50@ 2 00
"	Bride, Bridesmaid, special.	3 00@ 3 50
	extra and fancy	1 50@ 2 00
	No. 1 and No. 2	50@ 1 00
"	Killarney special	4 00@ 5 00
	extra and fancy	1 50@ 2 00
"	Richmond	50@ 6 00
Carnations	fancy and special	3 00
"	common	50@ 1 00
Callas	per doz.	40@ 50
Cattleyas		10 00@35 00
Daisies		50@ 1 00
Gladiolus		5 00@ 6 00
Gardenias	per doz.	1 00@ 2 00
Lilium Longiflorum		3 00@ 4 00
Lily of the Valley		1 50@ 3 00
Peonies		1 00@ 6 00
Snapdragons (Antirrhinum)	doz.	15@ 35
Stocks (Double white)	per bunch	15@ 25
Sweet Peas	per doz bunches	20@ 75
Asparagus	doz. bunches	1 50@ 2 50
Smilax	per doz. strings	75@1 50

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,

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The "Hub"

Centrally located between the two markets.

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Consignments Solicited.

Telephone 7062 Madison Square.

Philadelphia.

BUSINESS DULL.

Business is fast getting down to a summer basis, as most of the regular buyers of the season are now out of town. There are still a few commencements with the usual dinners of the alumni. There are also a few weddings. "Bon Voyage" messages use up some of the choicest blooms, and with the usual demand for the last rites, the supply is still far from exhausted, and the street men clean up the balance at their own prices. The market is without feature, except possibly that the cattleyas, which were quite plentiful for a week or two, are now quite scarce and held firm at from 50 to 60 cents each. The bad weather of the past few days was hard on sweet peas, which come in in poor shape; in fact, everything seems to be lacking in quality and will retrograde rapidly from now on. Lily of the valley and Easter lilies may be cited as exceptions. Some of the retarded Easter lilies are very fine, as if they were improved by their long rest. A few fine gladioli are coming from down east, where the climate puts a finish to the flowers that is not possible about here at this season.

ROSES AT DREER'S.

The H. A. Dreer Co. at the nurseries at Riverton, N. J., is now trying out all the new roses that are recommended for outdoor culture, and Jacob G. Eisele says these experimental rose borders are to him one of the most interesting parts of the grounds. Over 200 varieties containing a few of the tried out generally acknowledged best are placed there for comparison, the balance being the latest introductions of this country and Europe. These trial beds, which are now in their second year, will no doubt grow to be one of the features of the establishment. Mr. Eisele says it is a great pleasure to him to visit these roses early in the morning and note the beauty of the buds, as they are then at their best. He is a believer in severe pruning and nearly all of the stock had been cut to within six inches of the ground. The result was strong shoots, each bearing well developed flowers. Among the novelties in flowers on June 10 were The Lyon coral red, shading with chrome yellow in center and strong pink at the edge. It is a remarkable looking flower. Harry Kirk, a deep sulphur yellow, a superb flower and a strong grower. Ned Leon Pain, a flesh pink, Nina Barbonson, a great pink like La France. Molly Sharman Crawford, fine white. Carl Laurent, the best dark red bedder, better than Richmond or Liberty. W. R. Smith is coming to the front as one of the best. Mrs. Aaron Ward and La Detroit, which Mr. Eisele said was one of the best bedders. The following 12 varieties he regards as the best bedders for American culture at the present time: Prince of Bulgaria, Farbenkonigan, La Detroit, Mme. Ravery, Kaiserin Augusta Victoria, Antoine Rivoire, Mme. Jules Grolez, Vicountess Folkestone, Caroline Testout, Richmond and Killarney.

A curious condition has been discovered in water lily culture. Many of the varieties seemed to fail in their ponds, which was attributed to various causes, but nothing definite was determined until it was noticed that those allowed to remain in pots when planted were uniformly good, while the plants set out in the soil of the bottom of the pond made but a feeble growth. On examination it was found that the soil being very light the roots sank into it, dragging the crown down until the plant smothered. Now the pots are not removed and the growth is uniform, all varieties doing well. Nephrolepsis Scholzeli, the crested Scottii, has had a great sale, Mr. Eisele's prediction that it would become a favorite with the public being fully demonstrated. Cibotium Schiedei is also sold up almost to the last plant, orders having been booked a year ago for this fall's delivery. A customer last week left an order for 200 plants for the spring of 1910. Moral, grow the good things and they will sell themselves.

NOTES.

The large greenhouse operations in the neighborhood of the city are going forward rapidly. The Florex Gardens have their large house under way; a new system of scaffolding is being erected, a portion of the wall is up and a very large cistern or underground concrete basin is being excavated. This is for manure water, which will be forced through pipes to all parts of the house. Rob't Craig is making good progress and will soon have three houses ready for the glaziers.

Niessen's was a busy market on Saturday, carnations going out by the 5,000 and 10,000 lots. A very fine line of cattleyas is seen here.

Wm. McKissick & Bros. are handling choice gladioli. Their eastern American Beauty roses are also in good demand. K.

Boston.

BUSINESS DULL.

We are in the throes of the annual dull period of summer. There still remain two weeks in which some business is expected, but so far commencements and graduations have developed nothing in the way of business. Many have made their exit to shore and country resorts and even funeral work is coming slowly. The markets are swamped with all sorts of indoor flowers; peonies and lily of the valley are the only outdoor products of any consequence, and neither can be depended upon owing to the varieties of weather we are experiencing. Carnations are coming in by the thousand and the demand makes no impression on the surplus. Roses are overabundant and lacking in quality. Much difficulty is experienced in getting first grade American Beauties, though plenty of medium length and unattractive stock is available. Frame lily of the valley is found on every street corner at 50 cents per bunch of two dozen sprays. Sweet peas are very poor and until something better is found buying will be only under protest. In other years at this time a really attractive line has been open, and proven its popularity, but the present stock conveys no satisfaction at either end.

NOTES.

The beautiful estate, Holm Lea, in Brookline, in the height of all its renowned beauty, was opened to the public June 12-13. This estate is among the finest in the country and with its lakes and gardens is unsurpassed as an example of science and architectural skill. Hundreds of the finest varieties of rhododendrons and azaleas were seen in full bloom, easily outshining the envious collection of superb rarities planted within the grounds. Through the public spiritedness of the host, Prof. Charles S. Sargent, thousands of enthusiasts availed themselves of this annual opportunity of viewing these attractions.

Henry Penn, the Bromfield street retailer, has selected the north shore as his favorite summering resort, and is comfortably located at Nahant. Within easy reach of his place of business, traveling by means of his automobile and with ideal opportunities for recreation in his newly purchased power boat, the summer months will be rapidly passed over, without neglect of business.

"Dud" Hartford, the veteran outdoor lily of the valley man, is distributing an excellent product this year and has run far ahead of last year's marketings. Together with keeping the local market supplied regular shipments are being made to New York. The season is but a short one and a general clean up is due next week, when "Dud" retires for another year to his farm in Bedford.

Elijah Wood, the acknowledged leader among peony growers, is shipping to market an excellent crop, including the finest blooms known. His particular favorite, Festiva Maxima, is showing itself slowly, but this week should bring the flowers out in the pink of condition. B.

Baltimore.

WEATHER DEPRESSING.

Rain, rain, and more rain, not torrid downpours, but chilly easterly storms which have been more like March than the tropical showers supposed to be customary at this season of early summer, although now some delver into past records discovers that June is almost always a month of rain, and that two years ago there were only seven clear days in the month of roses. This year it has rained every day save two. This caused quick growth outdoors, but inside nothing has done well, and in many establishments mildew has been rampant, the night temperature once or twice going down to 54°. One consequence of the fierce storms has been large destruction of strawberries and early cherries, which have rotted under the continuous wet. Trade has been unsatisfactory, due mainly to the depressing effect of the damp chilly weather.

JUNE WEDDINGS.

The wedding list has been a long one, but as a rule no very elaborate decorations have been reported. Geo. N. Black had an order for a beautiful lawn wedding at Catonsville (the Mergenthaler-Feldner nuptials) which the elements threatened to wipe out, but at the last moment a huge tent was ordered, a floor laid and a fine effect provided by the abundant use of evergreens and pot plants, southern smilax and a profusion of flowers. A temporary altar was erected and the ceremony lost none of its beauty and attractiveness due to the temporary character of preparation, and Cupid once more beat out old Jupiter Pluvius.

COMMENCEMENTS.

Commencements now have the call. In some cases the invitations bear the legend, familiarly connected with funeral notices, of "no flowers," but the rule was the other way and a great many bunches are seen at all the ceremonies. Most of these are of the less valuable grades of blossoms, peonies predominating, but this showy flower suffered greatly from the wet season.

Your correspondent is told he hardly estimated the amount of business done this year on Memorial day at its full extent, the result being, generally, quite as satisfactory as former years. It seems that the ceremonies and private decorations of graves was so spread over Saturday, (a half-holiday here) Sunday and Monday that the impression made upon the observer failed to show the extent of the demonstration. Confederate Decoration day does not make much of an element in trade circles here, though the community contributed quite as many soldiers to one army as to the other, but the practical absence of organization which perpetuates the memories of the lost cause accounts largely, probably, for the comparatively meagre celebration.

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All Seasonable Flowers.

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Tea Roses, Beauties, Valley, Peas, Peonies.

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Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

NOTES.

The extension of our system of parks puts the city in the very foreground of American cities in the provision made for public pleasure grounds and breathing spaces for the people. In the vast suburban development which has been going on for several years the park board has shown foresight in securing for every section lands for new parks before their prices became exorbitant or prohibitive. A million dollars appropriated to this end has been largely drawn upon, the four sections, geographically considered, of the city getting about an equal share; the disbursements for the year amount to $728,000, of which $265,000 was for the land purchases. The development and improvement goes along with all at once, but naturally this is a measure of gradual results. But whilst the extension work has gone on apace, the improvement and beautifying of the older parks keeps up with it, and on every side may be seen evidences of advanced ideas. As illustrating how every taste is provided for, it may be noted that at Patterson park on the eastern side of the city, the extension includes athletic fields and a swimming pool, the amount expended to date being over $55,000.

Frederick C. Bauer, of Govanstown, whose experiments and success with Harrisii lilies, which have been heretofore alluded to and illustrated in THE FLORIST, continues his operations along the lines he established. This year he has raised many more seedlings, encouraged by the promising character of his former crossings. His crop of lilies this year were, as a rule, extraordinarily healthy, of good substance and fine size. There was naturally, some variation in the products, but the comparison between these and the uncertain health of the imported bulbs, encourage him to persevere in his undertaking. S. B.

PORTLAND, ORE.—The Tonseth Floral Co. is now located in its new store in the Marquam building.

Wholesale Flower Markets

PHILADELPHIA, June 16.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	6 00@ 8 00
" " extra	10 00@20 00
Carnations	2 00@ 3 00
Cattleyas	50 00@60 00
Gardenias	15@ 25
Gladiolus	6 00@10 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Peonies	4 00@ 8 00
Sweet Peas	50@ 75
Adiantum	1 00@ 1 50
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, June 16.	Per 100
Roses, Beauty, specials	15 00@25 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	1 00@ 6 00
" Chatenay	1 00@ 6 00
" Killarney	1 00@ 6 00
" Richmond	1 00@ 6 00
Carnations	1 00@ 2 00
Iris	1 00@ 3 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	2 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, June 16.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—

Carnations, Roses, Beauties,

All Seasonable Flowers.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

Glen Cove, N. Y.

The Nassau County Horticultural Society held its regular monthly meeting in Pembroke hall June 9. There was only a fair attendance owing to the unpleasant weather. Vice-President Elmslie occupied the chair in the absence of President Everett. A great deal of business was transacted. Final arrangements were made for the summer show which is to be held in Pembroke hall on June 23. This is the first summer show that the society has held and everything possible is being done to make it a success. The society intends to hold an annual summer show in future.

Preliminaries were discussed regarding the dahlia and chrysanthemum shows. M. Dean, Glen Cove, offered a silver cup for the best collection of dahlias shown on long stems. Mr. Dean's idea in offering the cup is to encourage the culture of the dahlia as a cut flower. The fall exhibition is to be held the last week of October this year instead of in the first week of November as formerly. The monthly exhibits, as usual, were of a high order. The judges for the month were Messrs. Duthie, Garrett and Holloway. S. J. Trepess exhibited a yellow carnation seedling. V. Cleres was awarded honorable mention for an exhibit of May King lettuce. H. Turner, Castle Gould, Wm. Millard, Oyster Bay, and Wm. Marshall, Glen Cove, have been asked to act as judges at the rose show. J. Hearn, Roslyn, was elected to active membership.

W. H. MACKENZIE, Sec'y.

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Write, Telephone or Telegraph, All orders given prompt attention.

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For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

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Best Quality on Shortest Notice

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Order by mail, telephone, telegraph or cable. Cable address "Daniels, Denver"

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Prompt and Careful Attention given to all Mail and Telegraph orders.

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Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

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Write, Telegraph or Te'ephone

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

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Established in 1857.

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1657-1659 Buckingham Place,
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Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

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Auditorium Annex.
Mail, Telegraph or Telephone Orders Filled Promptly in Best Style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

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Matthews,

—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

Geo. M. Kellogg Flower and Plant Co.,

906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,

129 South Seventh St.
Telephone **247.**
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen

— FLORIST —
Special Attention to Telegraph or Telephone Orders. **Phone 1912.**

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Atlanta Floral Co.

41 Peachtree Street.

Hoffman FLORIST
59-61 Massachusetts Ave. for Commonwealth Ave.
BOSTON.

Allan Line (Al.); Anchor Line (A.); American Line (Am.); Cunard Line (C.) French Line (Fr.); Red Star Line (R. S.); White Star Line (W. S.); Hamburg-American Line (H.-A.); Fabre Line (F.); Holland American Line (H. A.); North German Lloyd (N, G. L.); Austro-American Line (A. A.); Scandinavian-American Line (S. A.).

June 20.
Bulgaria (H-A) Genoa-New York.

June 22.
Italia (A) New York-Naples.
Caronia (C) Liverpool-New York.
Kaiser Wilhelm der Grosse (N. G. L.) 10 a. m., New York-Bremen. Pier foot of Second St., Hoboken, N. J.
Kronprinz Wilhelm (N. G. L.) Bremen-N. Y.
Noordam (H. A.) 10 a. m., New York-Rotterdam, Pier foot of 7th St., Hoboken.

June 23.
Merion (Am.) Liverpool-Philadelphia.
Campania (C.) 10 a. m., New York-Liverpool, Piers 51 and 52, North River, foot of Jane St., New York.
Adriatic (W. S.) 9:30 a. m., New York-Southampton.
Oceanic (W. S.) Southampton-New York.
Venezia (F) New York-Naples, Amity dock, near South Ferry, Brooklyn.
Cassel (N. G. L.) 2 p. m., Baltimore-Bremen, Pier 9, Locust Point, Baltimore.
Martha Washington (A. A.) 1 p. m., New York-Trieste.

June 24.
Prinzess Irene (N. G. L.) Genoa-New York.
Grosser Kurfuerst (N. G. L.) 10 a. m., New York-Bremen, Bremen piers foot Second and Third Sts., Hoboken, N. J.
Chemnitz (N. G. L.) Bremen-Baltimore.
Hellig Olav (S. A.) 12 noon, New York-Copenhagen.
La Lorraine (Fr.) 10 a. m., New York-Havre, Pier 42, North River, New York.
Graf Waldersee (H. A.) 11 a. m., New York-Hamburg.

June 25.
Victorian (Al) 7 a. m., Montreal-Liverpool.
Virginian (Al) Liverpool-Montreal.
Numidian (Al) Boston-Glasgow.
Calabria (A) Naples-New York.
Manitou (R. S.) 10 a. m., Phila.-Antwerp.
Cedric (W. S.) Liverpool-New York.

June 26.
Berlin (N. G. L.) 11 a. m., New York-Genoa, N. G. L. Piers, Hoboken, N. J.
Prinz Friedrich Wilhelm (N G. L.) 10 a. m., Bremen-New York.
Alice (A. A.) 1 p. m., New York-Trieste.
Floride (Fr.) 10 a. m., New York-Havre, Pier 84, North River, W. 44th St., N. Y.
Vaderland (R. S.) 11 a. m., N. Y.-Antwerp, Pier 14, North River, Fulton St., N. Y.
Kroonland (R. S.) Antwerp-New York.
Arabic (W. S.) 12 noon, New York-Liverpool.
Cretic (W. S.) 12 noon, New York-Genoa.
New Amsterdam (H. A.) Rotterdam-N. Y.
Caledonia (A) 2 p. m., New York-Glasgow, Pier No. 54, North River, W. 24th, N. Y.
Columbia (A Glasgow-New York.
Calabria (A) Palermo-New York.
St. Louis (Am.) 10 a. m., N. Y.-Southampton, Pier 15, North River, Fulton St., N. Y.
Haverford (Am.) 10 a. m., Philadelphia-Liverpool, Pier 54, foot of Washington avenue, Philadelphia.
Lucania (C) Liverpool-New York.

Alexander McConnell,

571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.

TELEGRAPH Orders forwarded to any part of the United States, Canada and all principal cities in Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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John Breitmeyer's Sons

Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,

ST. PAUL.

THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

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J. W. Wolfskill,

FLORIST.
Telegraph Orders A Specialty. **218 W. 4th St.**

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L. L. MAY & CO.

Order your flowers for delivery in this section from the
Leading Florists of the Northwest

San Francisco, Calif.

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Successor to Sievers and Boland.
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.

Will take proper care of your orders in **Wisconsin.**

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., June 22-24, 1908.

CHAS. P. BRASLAN is in Washington and New York this week.

NEW YORK.—F. H. Henry is leaving this week for Japan, via San Francisco.

BIRMINGHAM, ALA.—The Amzi Godden Seed Co. has built a new warehouse.

WE were in error in stating that J. W. E. Tracy was in California. He will be in Chicago about June 20.

SANTA CLARA, CALIF.—L. M. Roesch of the Fredonia (N. Y.) Seed Co., is inspecting seed crops in the valley.

THE Philadelphia North American reports the purchase of property at Fifth avenue and Buttonwood street by W. Atlee Burpee for $33,000.

SHEBOYGAN, WIS.—The New York state corporation of the John H. Allan Seed Co. has been dissolved and the business re-incorporated under the laws of Wisconsin, capital stock $110,000; incorporators E. M. Parmelee, A. L. Sommer and W. B. Lucas.

THE general average condition of crop growth, based upon crops reported to the Department of Agriculture to June 1 was approximately four per cent below conditions on June 1, 1908, but about eight per cent better than on June 1, 1907. The reports include cereal, vegetable, hay and fruit crops.

TORONTO, ONT.—The travelers, office staff and heads of departments of the Wm. Rennie Co., Limited, seed and plant dealers of this city, were entertained by the firm by a very pleasant automobile trip around the city, and to the trial grounds and greenhouses at Swansea. They were received by the veteran seedsman of Canada, Wm. Rennie, Sr., and on returning to the city were banqueted at the St. Charles, where a most enjoyable evening was spent. The chair was occupied by President Robert Rennie, who was ably supported by Secretary Thomas Rennie. The company congratulated its employes upon the most successful year in the history of the business. J. E. Killen, representative of this firm, has recently had an addition to his family in the form of a baby girl.

CHICAGO.—W. W. Barnard is quite seriously ill and is now in the hospital. His friends are very anxious, fearing some danger of blood poisoning.—Frank Moore, 41 E. Thirty-seventh place, of W. W. Barnard Co., buried his wife Monday; she died on Saturday.—Kirkeby & Gundestrup have sold their interests in their Roseland store to Z. Latimer. They report onion set crops looking fairly well despite rains. Maggots are working considerable damage, especially on fields of mixed sand and clay, seeming to enjoy the wet.—Knud Gundestrup is now in his native town, Aarhaus, Denmark, helping the citizens celebrate the one thousandth anniversary of its existence.—Contract prices on the board of trade June 16 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.—Visitors: J. E. Northrup, Minneapolis, Minn.; C. L. Kunz of the Madsen Seed Co., Manitowoc, Wis.

American Seed Trade Association.

The New York and southern New England delegation to the seedsmen's convention will leave New York on the Empire State express via N. Y. C. R. R. Monday morning, June 21 at 8:30. Parlor car seats have been reserved for as many as wish to take this train, provided I have notice not later than June 16. A slight saving in fare will be made if round trip tickets are purchased from New York to Niagara Falls. These are unlimited and good for stopover anywhere. Quite a large party has already made reservations with me on the above train.

WATSON S. WOODRUFF,
Orange, Conn. President.

New Seed Law in Tennessee.

Tennessee seedsmen are well stirred up over the new law. State Commissioner of Agriculture J. W. Thompson met with them at Knoxville June 1. The seedsmen complained that the new law works a good deal of a hardship on them but Commissioner Thompson gave his commendation to it in no uncertain terms. All inquiries from the seed dealers in regard to the interpretation and enforcement of the new law will be answered from the State Department of Agriculture. The following seedsmen were present: Joe Broyles, of the Broyles-Hackney Co.; S. Kaiser, of Kaiser Bros.; W. W. Scarborough, of W. W. Scarborough & Co.; F. S. Reap and Geo. Ketchen, of C. W. Henderson & Co., and a representative of Ross Bros., a seed company of Louisville, Ky. Prof. H. A. Morgan of the University of Tennessee represented the agricultural experiment station at the meeting.

Crops on Muscatine Island, Ia.

J. E. Hoopes & Co. write, June 12: "The spring was late here and we were hindered in getting our crops in the ground, but things begin to look much better now. We are finishing setting out the last field of pepper plants for our seed crops. We have had fine weather for setting out plants the last two weeks and they are starting off well. Will have more land in peppers than ever before, and hope for a good crop of seed. We are picking our Alaska peas and they are very good in quality and yield. Sweet potatoes about all planted. Musk and watermelons growing fast and beginning to start vines."

Pansies for Seed.

We have received a photograph, unfortunately not clear enough for reproduction, showing the pansy fields of Peter Brown of Lancaster, Pa. Mr. Brown annually grows a fine lot of seed and his strain is well known for its excellence. He is, moreover, constantly improving it by crossing and selection. He is to visit Europe this summer and will keep his eye lifting for anything new in pansies or any fresh ideas in their culture, and these he will tell the trade about on his return. The present season, with its cool weather, has been ideal for pansy seed development, and the quality should be unusually good.

Warranty of Insecticides.

A case of interest to those handling insecticides is that of E. P. Rand of Rayleigh, Essex, Eng., and Adam Parker & Co., Waltham Cross. Plaintiff's case was that he purchased 40 gallons of a disinfectant called destructo which the defendants' salesman said was the same as clubicide and equally safe to use but cheaper. The results of its use were, however, disastrous as when the sun came out after using it on cucumbers the leaves collapsed and the crop was more or less of a failure. A letter of recent date from the insecticide firm states: "The case in question went against us. This rather opens up the point that, if you sell goods to a fruit grower you also have to present him wtih an insurance policy on his crop."

Gov't. Flower Seeds Prove to be Weeds.

William F. Mangan is feeling bad over some fine flowers, the seed for which was sent him by Congressman F. O. Lowden. The flowers turned out to be weeds and they are running out his strawberry bed.—Sterling, Ill., Standard.

Imports.

During the week ending June 12 imports were received at New York as follows:

H. Frank Darrow, 5 cases plants.
Carrillo & Baldwin, 3 cases live plants.
Maltus & Ware, 3 cases plants.
H. Nungesser & Co., 6 bags clover seed.
F. B. Vandegrift & Co., 21 bags garden seed.
To others, 59 cases plants, 115 tubs laurel trees, 13 cases, 4 bbls. orchids, 219 bags, 10 bbls., 10 pkgs. seed.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

Seedsmen's Convention—Niagara Falls—June 22-24, 1909.

The Seedsmen from Chicago and vicinity will use the Wabash road to their Convention at Niagara Falls, leaving Chicago on the 3 p. m. train, Monday, June 21st. Special sleeping car accommodations will be provided on this train for the use of delegates and their friends. The fare from Chicago to Niagara Falls and return is $19.50. Tickets will be good by lake in either direction between Detroit and Buffalo.

Those contemplating a trip to New York after the close of the Convention will be interested in knowing that the Wabash will sell round trip tickets from Chicago to New York and return at a rate of $25.50, good for thirty days, with the privilege of stopping ten days at Niagara Falls. This ticket is good for stopover also at Buffalo, Rochester, Syracuse, Utica, South Schenectady and Albany, N. Y. These tickets are also good without extra charge between Detroit and Buffalo by lake, in either direction, and from Albany to New York down the Hudson river. Apply to J. C. Vaughan, 84 Randolph street, or Wabash Ticket Office, 109 Adams street, for sleeping car accommodations.

Catalogues Received.

Fairbanks, Morse & Co., spraying outfits; Benj. Hammond, Fishkill-on-Hudson, N. Y., insecticides; American Blower Co., blowers; Kewanee Water Supply Co., Kewanee, Ill., Kewanee system of water supply; The Chris Pfeiffer Boiler Co., Chicago, boilers; J. Blaauw & Co., Boskoop, Holland, nursery stock; Conrad Appel, Darmstadt, Germany, forest and agricultural seeds; Friedr. C. Pomrencke, Alton-Hamburg, Germany, seeds and bulbs; Ernst Riemschneider, Altona-Hamburg, Germany, lily of the valley; Hugh Low & Co., Middlesex, Eng., carnations; Van Zanten & Co., Hillegom, Holland, bulbs; W. van Kleef & Sons, Boskoop, Holland, nursery stock; Schaum & van Tol, Boskoop, Holland, nursery stock; V. Leminnet Fils, Nancy, France, seeds.

Befri Seed.

The publication of the brief report by Consul-General Wm. H. Michael, of Calcutta, on befri seed, in the Daily Consular and Trade Reports, and in many newspapers of the United States, and also in England, caused several persons to write to him for additional information respecting the new discovery. After correspondence with the chief medical officer of Baroda states, he gives the following information on the subject:

"Befri plant is an annual, and belongs to the natural order leguminosæ. Its name is Indigofera glandulosa. It generally grows in black soil, and does not require much water. Befri seed is contained in very small pods, which are gathered after the rainy season is over. Befri contains 21.13 per cent of albuminoids, whereas their proportions in Indian wheat and oatmeal are respectively 13.5 and 16. In other words, befri is 56 per cent more nutritious than wheat and 32 per cent more so than oatmeal. It is ground, mixed with flour of bajri or other less nutritious grains or grass seeds, and made into breads, bhedkl, etc."

Seeds for Florists

Send me your wants in Flower Seeds.

Bulbs for Florists.—Tuberous Begonias. Single and Double Tuberoses—splendid bulbs.

Vegetable Seeds for Forcing.

Let me quote and send catalogues.

STOKES' SEED STORE, 219 Market St., PHILADELPHIA.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

ASPARAGUS PLUMOSUS NANUS.

Northern greenhouse grown seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,

NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

The Lawns of Old England

Are famous for their wonderful perfection and durability. Such lawns may be produced in this country if

Imported English Lawn Grass Seed

is used. No weed seeds or coarse grasses. Hardy and beautiful in color and texture. Imported fresh each season. Send for directions—How to Seed and Keep a Beautiful English Lawn. Free.

Barwell Agricultural Works, Madison and Sand Sts., **Waukegan, Ill.**

Established at Leicester, England, in 1800.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

Reliable Seeds, SOW NOW

PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Tell Your Dealer You "Saw It in THE AMERICAN FLORIST."

Dearborn Engraving Co.

Designers, Printers & Engravers

1322 Wabash Ave., Chicago.

...Engravers for this Paper.

Mention the American Florist when writing

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors	⅛-oz. 60c;	oz. $4.00
Pure white	⅛-oz. 75c;	oz. 5.00

H. E. FISKE SEED CO.,

Faneuil Hall Square. BOSTON, MASS.

Mention the American Florist when writing

Telegraph Code

Am. Seed Trade Association

—$2.00—

In either stiff or flexible cover. Address order AMERICAN FLORIST CO., CHICAGO.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

PARIS GREEN and arsenate of lead freely used is recommended by the New Mexico College of Agriculture as superior to any other spray when used against the Colorado potato beetle.

BELLAIRE, O.—G. W. Kiger reports trade dull just now but is hopeful that it will improve, in which latter case he will increase his glass, erecting a house for winter vegetables and spring plant trade.

Cultivation.

At this time of the year, cultivation is the most important subject. So much has been said and written about the value of cultivation, that we will spend no time in this direction, believing that every one who works the ground knows the importance of stirring it. We will tackle the opposite—the damage done by cultivation. As a rule operators like to work with fine tools among fine plants and coarse tools among big plants, in other words, to strike surface while plants are small and to plow deeply when they are big. This, as a matter of convenience; they are afraid that rough work will cover the young plants and they believe the big ones will stand hilling.

However, if we study root action we will very soon learn our mistake. As a plant develops its roots extend in all directions and they come very closely to the surface. Thus many plants have their main feeders between the second and fourth inch. A thorough deep plowing at a matured stage will cut off untold numbers of feeding rootlets, and to that extent damage the crop. It is estimated that the average method of cultivating corn reduces the possible yield by 40 per cent. The fact is, we should work deeply while the plants are young and do not occupy the soil, and as they mature decrease the depth until we stir the upper inch only. Proof of this can be seen by the fine crops that can be grown with the exclusive use of a wheel hoe, which will never enter the ground more than an inch. The tendency among best growers is towards more shallow tillage. MARKETMAN.

Greenhouse Vegetable Growers.

ANNUAL MEETING OCTOBER 12.

A meeting of the Greenhouse Vegetable Growers and Market Gardeners' Association of America was held recently in Cleveland, O., when plans were discussed for making its next annual meeting at Ashtabula, O., an interesting and successful one. Special committees were appointed for important work in connection with the vegetable growing business, including investigations into uniform packing and grade of greenhouse vegetables, advertising them, supplying members of the association with reports as to crops and market conditions and the programme of the meeting above mentioned.

In a circular letter sent out by S. W. Severance, secretary of the association, criticisms and suggestions are invited from all members of the association, and these are asked to work to extend its influence by personal suggestions to friends. A cordial invitation is also extended to all to come to the meeting at Ashtabula and bring friends. Briefly put, the objects of the association are to do all in its power to promote and encourage the work of greenhouse vegetable growing. The officers of the association are:

E. A. Dunbar, president.
S. J. Perry, vice-president.
S. W. Severance, secretary.
S. B. Chester, treasurer.

Richard Hittinger, W. F. Massey, W. H. Weinschenk, C. W. Waid, Franklin De Kleine and J. W. Ritterskamp are directors, and all further particulars can be had of Secretary S. W. Severance, 508 Illinois Life Building, Louisville, Ky.

Farming on Paper.

The well known writer, Wm. Dean Howells, in Harper's Monthly, calls attention to the glaring, extravagant utterances of those rustico-agriculturo magazines of popular fiction which are one of the signs of the times, both effect and cause of the back-to-the-land movement — those finely illustrated, sumptuous periodicals that in text and illustration depict rural life so alluringly. Mr. Howell says:

"You can't pry out of the American mind the twin fallacies that anybody can farm and anybody can soldier without any previous training. It takes years to be competent at either. Queer! Nobody disputes that it takes time to learn to be a mechanic, a clerk, a lawyer, a railroad conductor, but anybody can be a farmer immediately. The beginner should go slow and not rush wildly into extracting $10,000 from cabbage, $4,000 from squabs or $3,000 from Canada field peas in one year, and that the first.

"The particular thing that has caused his long-gathering wrath to burst forth is an illustrated article telling how a retired New York business man made $10,000 clear from nine acres of cabbages the very first year

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

IT'S TIME NOW

To Order Your Fall Bulbs.

Our Booklet

"Money in Bulbs"

Is worth consulting before you buy. **Let's send you one.**

C. C. Pollworth Co.
Milwaukee, Wis.

THIS SEASON'S FRESH

MUSHROOM SPAWN

which is now being supplied by

JOHNSON'S, LIMITED,
(The actual makers.)

IS IN SPLENDID CONDITION.

All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.

Correspondence invited for **OVER-SEA ORDERS**

Special quotations for large quantities. Prices and particulars on application to

JOHNSON'S, Limited,
44 Bedford Row, LONDON, ENGLAND.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10,000 and over	85
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 00
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	2 00
Chinese Giant and Cayenne	50c per 100
Parsley,	1 25

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums, **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Going Going Gone

JUNE 22nd

At Our Annual Trade Sale, by Auction, of a high class of stock for growers to stock up on, consisting of

Kentias, Arecas, Pandanus, Crotons, Ficus, Cycas, Ardisias, Oranges, Ferns, Etc.

LAST SALE, SO TRY AND BE PRESENT.
This Is an Opportunity Which Presents Itself Only Once a Year.

WM. ELLIOTT & SONS, 42 Vesey St., New York

he tried farming. Such an article deserves severe censure. Men with no aptitude for farming, with little capital, with insufficient physical strength, are every day throwing up good salaried positions to engage in farming, induced to do so by such articles as the one in question.

"In farming hard work, intelligence and experience are rewarded by good returns in money and greater returns in health. From reading the glossy pages of the dilettante agricultural magazines the ordinary man gets the idea that farming is a business of 'snaps,' of "good things,' that smart fellows can beat the game of weather and bugs and weeds by a little finesse and head work and that the failure of the ordinary farmers to get actually rich is due to mere lack of brains and energy. Thus lots of poor fellows are caused not merely disappointment but disaster.

"The middle-aged salaried man who leaves his position to make $10,000 in cabbages and by an unaccountable perversity of dry weather, failure of seed to germinate, flea beetles when the plants push out of the ground, caterpillars and clubfoot afterward, fails to make $10, does not find it easy to step back into a salary again."

[The above statements are equally true with respect to operations of the market gardener and the florist, and it is time that a general caution was issued against these isolated cases of great success, which give the impression that this is the average outcome of such crops. Further unhealthy and unsound competition is also encouraged which hurts those regularly established in these lines.—ED.]

Prices of Indoor Fruits and Vegetables.

The prices of indoor fruits and vegetables at leading points June 5 were as follows: New York, cucumbers, 50 cents per dozen; mushrooms, 75 cents per pound; mint, 25 cents per dozen bunches; tomatoes, 12½ cents per pound; grapes, $1.25 to $2.00 per pound; cantaloupes, $1.50 each; peaches, $6 to $8 per dozen; nectarines, $6 to $8 per dozen; mangoes, $7.50 per dozen. Chicago, cucumbers, $1 to $2 per dozen; head lettuce, $3 to $6 per bbl.; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 40 to 60 cents per dozen bunches; grapes, Gros Colmar, $1 to $2 per pound; peaches, $15 per dozen; English melons, $15 per dozen; peppers, 30 to 75 cents per dozen; rhubarb, 6 to 10 cents per pound. Kansas City, cucumbers, 50 cents to 75 cents per dozen. Cincinnati, cucumbers, 22 to 25 cents per dozen; mushrooms, 40 cents per pound. Boston, cucumbers, $3.00 to $3.50 per box.

Plant Lice on Tomatoes.

ED. AMERICAN FLORIST:—

Our tomato crop is being hurt by small plant lice. Tobacco seems to have no effect on them. Can you give us a remedy that will kill them?

Colorado. W.

The tomato leaves sent by "W." are not affected by plant-lice, or aphides, but by a minute insect of the family psyllidæ, determined by E. A. Schwarz, a specialist of this group, as perhaps the species known as Trioza solani (Riley), a form which is known only from the Pacific coast. In regard to remedies, plant lice or aphis remedies are applicable. We would suggest either kerosene-soap emulsion or whale-oil soap solution.

C.

To Destroy Snails.

Ed. AMERICAN FLORIST:—

Please advise me what can be used to destroy snails in the garden. E.

There is no panacea for these troublesome insects. To destroy them it is necessary to keep constantly after them by trapping or by placing substances in their haunts that are destructive to them. The slime that these pests exude is a great protection to them, but soot and lime in equal proportions kept constantly in their runs will destroy them. Neither soot nor lime alone is as powerful as the two in mixture. Powdered alum is also a very effective deterrent. Traps of lettuce or cabbage leaves laid about their haunts are effective if examined regularly, and other aids along this line are to keep all rubbish carefully gathered up in order that the insects have no place to hide and keep the surface soil loose by frequent stirring.

G.

FISCHER'S
Grand Freesia
Purity
The Unequalled, White Decorative Freesia.
For Sale by the Leading Florists.
Rudolph Fischer
San Gabriel, R. F. D., Calif.

CANNAS
best varieties as: Cleveland, Henderson and Vaughan, 4-in pots, $7.00 per 100.
Mme. Salleroi, bushy plants 3-in 4c.
Ageratum, 3-in. 4c. **Single Petunias,** 3-in. 4c.
Salvia, fine. 3-in. 4c
Violets, fine 3-in. Princess of Wales, $4.00 per 100; $35.00 per 1000.
Crabb & Hunter Floral Co., Grand Rapids, Mich.

H. N. BRUNS,
1407-11 W. Madison St., CHICAGO.
LILY OF THE VALLEY.

MUSHROOMS
HOW TO GROW THEM
BY WM. FALCONER.
The Best American Book on the Subject.
170 Pages. 29 Illustrations.
Price $1.00.
AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

The Nursery Trade

American Association of Nurserymen.
C. J. Brown, Rochester, N. Y., President; C. M. Hobbs, Bridgeport, Ind., Vice-President; Geo. C. Seagar, Rochester, N. Y. Sec'y.
Thirty-fifth annual convention to be held at St. Louis, June 1910.

BERBERIS ILICIFOLIA is a most beautiful shrub just now and all through the season, the color on the growing foliage being exquisite.

A NURSERY agent's credential is required of all nurserymen residing in Texas, and they must pay $15 inspection fee to the State Commissioner of Agriculture.

SPOKANE, WASH. — The Greenacres Commercial Orchards Co. has been incorporated with capital stock of $75,000. H. M. Adams and I. D. Brown are incorporators.

YONCALLA, ORE.—E. Drew has established the Southern Oregon Nurseries here, having purchased 86 acres, part of which is now in nursery stock, the remainder to be planted this coming fall and spring. The nurseries already run by Mr. Drew at Kellogg and Oakland will be used as branches. Mail should be addressed here.

THE new orchard and nursery inspection law of Texas, just put into force, requires all nurserymen and florists outside of that state and doing business in Texas to file with the Texas commissioner of agriculture a certified copy of the certificate of nursery inspection issued to such party in his own state. Such certificate being received by the Texas commissioner and found satisfactory and further investigation satisfying said commissioner that such firm is a responsible one and a cash fee of $5 being paid, the Texas commissioner will issue a certificate permitting the applicant to ship into the state. Every package so shipped must be tagged with a copy of such certificate.

Clematis Montana in England.

This hardy deciduous white flowering climber is now in full beauty. Introduced from Nepaul in 1831, it is well known, and its uses are many. There is nothing better for covering any unsightly corners; it is free in growth, and, though leafless in winter, its growth makes a good cover. For suburban gardens it has no equal, as it quickly becomes established, and when in flower lasts over a month. S.

Ulmus Campestris Monumentalis.

This fine variety of the field or English elm is an erect, columnar, compact grower and on this account well suited for planting in narrow streets. We noted some fine young trees of this variety in Vaughan's Nurseries, Western Springs, Ill. Carl Cropp of this firm having seen it growing on his trip to Europe and imported young stock of it. He says that, unlike the majority of elms, it keeps true to its erect habit and one knows what kind of tree to expect from it. Should it prove amenable to climatic conditions here, as seems likely, it should prove a popular park and street tree.

Rhodotypos Kerrioides.

This is such a pretty and effective shrub and flowers so early in the season that it should be more freely planted. The species is said to be not strictly hardy, but the specimen figured herewith is growing in Jackson park, Chicago, quite exposed and no protection of any kind is given in winter. It flowers well annually and the flowers are followed by the black seed pods that remain on all the season afterwards and well into the new year. When in full flower the effect of the starry white flowers on the light green foliage is exquisite and it is a clean growing graceful shrub at all seasons. Winter killing does not affect it to any great extent unless the situation is very much exposed.

Trees and Shrubs in Rochester, N. Y.

LILACS.

As we remarked in former notes this is an off year in the abundant flowering of the numerous varieties of Syringa vulgaris in western New York, but the clusters were unusually large and fine. They were about their best June 1. There is such a wealth of these varieties nowadays that it is difficult to make a selection of the best in about two dozen varieties. As we look at them from year to year our opinions about some of them are apt to change, and they do so. Amongst some of the creamy pink single kinds, Macrostachia is a beautiful form and is one of the newer lilacs. The clusters stand out boldly. Princess Maria has single light bluish lilac flowers and is quite distinct. Montgoflier with single violet purple large flowers is a good form. Christopher Columbus with single flowers that might be described as largely colored with robin's egg blue is very noticeable. Negro has single dark violet purple blossoms that are about one inch in diameter. Edmond Boisser with single flowers about one inch in diameter, and that shade from violet red to bluish lilac is a very handsome form. Charles Sargent with semi-double flowers, fully one inch in diameter, has handsome deep bluish lavender blossoms in dense compound thyrses. Victor Lemoine with double lavender bluish flowers in dense compound clusters is attractive. Maximowiczii has semi-double blossoms that are almost one inch in diameter, and shade from violet red to light purple red, in dense compound thyrses. Siebold is a most remarkable new lilac. It is one of the latest of the vulgaris varieties to flower. The double flowers are pinkish cream in bud, and when open are creamy white with a bluish tinge. There is nothing like it hitherto in lilacs. We sometimes think the Frenchmen must have reached the end of the chain in raising new distinct lilacs, but still they come. Syringa pubescens is a handsome, graceful species from China, with loose clusters of fragrant pale lilac flowers and attractive dark foliage and was in good flower June 1. S. villosa, the handsome lilac from northern China with rosy pinkish clusters, is now, June 12, in good bloom. The Hungarian lilac, S. Josikaea, with violet purple flowers, is now in blossom.

RHODODENDRONS.

At the present date, June 12, the hybrid rhododendrons are the cynosure of all eyes. Amongst some in full flower just now are Album Grandiflorum, with large beautiful blush flowers; Album Elegans, blush flowers, changing to white; Lady Grey Egerton, with large silver blush blossoms; Catawbiensis Alba, with delicate blush white flowers, a most desirable and lovely rhododendron. Mrs. John Clutton, pure white flowers; F. L. Ames, rosy pink flowers with lighter center; Mrs. C. S. Sargent (coming in flower), with deep pink blossoms; H. H. Hunnewell, deep rich crimson flowers; Charles S. Sargent, bright scarlet blossoms; Caractacus, with purplish crimson flowers; Charles Bagley has cherry red blossoms which stand out conspicuously; Roseum Elegans has rosy purplish flowers, and rarely fails to produce an abundant annual display. Hannibal with rosy red flowers is now coming in bloom, and is somewhat shy in setting flower buds. Sefton is one of the darkest flowered kinds we have, and is now coming in bloom with dark maroon blossoms.

RHODOTYPOS KERRIOIDES.
Growing in Jackson Park, Chicago.

AZALEAS.

The Ghent hybrid azaleas in a number of varieties are now in good flower, and amongst some of them are noticeably Gloria Mundi, with deep scarlet flowers; Duc de Provence, with yellowish white flowers. (Duc de Provence is described in some European catalogues as vermilion. The plants as described came from a responsible English grower.) Oscar I. with deep rosy red blossoms; Viscocephala, with white flowers; Cardinal, with pink and yellow flowers; Daviesei, with large whitish showy blossoms, a fine standard variety; Marie Verschaffelti has pinkish red blossoms, and is a charming form; Joseph Bauman, with deep red flowers, is very attractive; Altaclarense, with large deep yellow blossoms and very showy, is now past its best. Azalea calendulacea, native from the Alleghanies southwards, a most beautiful species, with deep yellow to intense orange red flowers is now in full bloom. Enkianthus campanulatus came in flower about June 3, and is still in good bloom. The drooping short racemes of dark red striped flowers present a most attractive appearance. This is said to grow to a height of 30 feet in the forests of Japan, but our plants are not more than four feet tall. It is quite hardy here. Leucothoe Catesbaei, a handsome evergreen shrub with white flower racemes, was in full bloom June 6.

Viburnum tomentosum, which opened its first flowers June 9, is now passing away, but it has been a glorious floral spectacle. V. Opulus sterilis, with its balls of white flowers, was about at its best June 8. V. Opulus flowers later than its sterile form, and is now in good bloom. V. Sargenti, whose flowers much resemble the latter, opened its first flowers June 6, and is now in good bloom. V. plicatum, the Japanese snowball, is now about at its best. V. Sieboldi, with convex white flower clusters was in full bloom on June 6. V. prunifolium, the black haw, with handsome large white cymes, was in full flower on June 1. V. Lentago, the sheep-berry, was in full bloom on June 6. V. rufidulum, with large compound cymes of fertile white flowers, four to six inches in diameter, is now in full bloom. V. pubescens, a common native species on the banks of the Genesee river, is now in good bloom and has been for five to six days.

The snow-drop tree, Halesia tetraptera, was in good bloom June 1. There are two distinct forms of this in cultivation. One form is a large spreading shrub. The other is arborescent, with much larger leaves and larger, showier flowers than the former. We have the two growing side by side, and the differences are quite obvious. H. diptera, which is not very hardy here, was in flower at the same time. Magnolia Fraseri was in bloom May 31, with creamy white flowers, and eight to nine inches in diameter. The sepals are greenish white. M. tripetala, with whitish blossoms, was in bloom June 4. M. cordata, with flowers of a canary yellow color, tinged with green, was in blossom June 4. M. paroiflora, with its lovely drooping pure white flowers and crimson stamens, has been in bloom since June 6. This lovely magnolia is a gem. M. Watsoni resembles the last somewhat, but has larger flowers on short stalks, with a beautiful crimson center and very fragrant, came in flower June 9. It is hardy here. M. acuminata, our native cucumber tree, with greenish yellow blossoms, was in full bloom June 1. M. Soulangeana nigra, which we mentioned in former notes as coming in flower May 23, is still in good bloom.

The handsome Wistaria Sinensis, with its beautiful lavender clusters, was in full bloom June 1. The white flowering variety which blossoms slightly ahead of the type is a charming vine or shrub whichever way it is treated. As a matter of fact, wistarias can be easily grown as vines, shrubs or trees, with a little training manipulation and the pruning shears. Wistaria multijuga alba, with long slender white blossoms, 18 inches in length, was in full bloom June 8.

SPIREAS.

Spiræa chamædryfolia, with white flower clusters and much exserted stamens, was in full bloom June 5. S. Van Houttei, with its drooping branches wreathed with the numerous white flower clusters, was in full bloom at the same date. S. trilobata, a low growing shrub, with flowers much resembling S. Van Houttei, was in full bloom June 7. S. Cantonensis, with its large clusters of white blossoms, was in full flower at the same time. S. Clauda, with large, showy pure white umbels, was in good bloom June 7. In a severe winter this kills back considerably here. Physocarpus Amurensis, with whitish clusters of spiræa-like flowers, was in full bloom June 6.

JOHN DUNBAR.

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.

Write for descriptions and prices.

THE WM. H. MOON CO.,

Morrisville, Pa.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.

CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....

PAINESVILLE, OHIO.

PYRAMID BOX TREES.

	Per 10		Per 10
3 to 3½ ft.	$21 00	4 to 5 ft.	$31 00
3½ to 4 ft.	26 00		

Bush Form,

	Per 10		Per 10
8 to 12 in.	$1 50	1½ to 2 ft.	$ 6 50
1 to 1½ ft.	2 50	2½ to 3 ft.	20 00

3½ to 4 ft. extra heavy specimens ..$8 00 per pair

Wagner Park Conservatories, Sidney, Ohio

LARGE TREES.

OAKS and MAPLES.

PINES and HEMLOCKS.

ANDORRA NURSERIES,

Wm. Warner Harper, Prop.

Chestnut Hill, PHILA., PA

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. Clematis And all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists Rutherford, N. J.

BOX TREES.

We have just received a carload of fine, shapely, compact trees in the following sizes:

Pyramidal Shaped

Height, 5-ft.....Each $ 7 00 Pair $13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.	Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in.	$4 50	$8 00	18-22 in.	30-32 in.	$5 50	$10 00
				22-24 in.	32-34 in.	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs, roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

Fine, bushy plants, 15-18 in. high.....Each, 40c. per doz., $4 00

18 to 22 in. high.....Each, 60c. per doz., $6 00

All Plants F. O. B. Western Springs, Ill.

VAUGHAN'S SEED STORE,

84-86 Randolph St., CHICAGO. 25 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

ROSE PLANTS

STRONG YOUNG STOCK

From 2½-inch Pots	100	1000
Killarney	$ 4 00	$ 35 00
Killarney, grafted	10 00	80 00
American Beauty	5 00	45 00
My Maryland	7 00	60 00
Maid	3 00	25 00
Bride	3 00	25 00
Chatenay	3 00	25 00
Richmond	3 00	25 00
Uncle John	3 00	25 00

From 2½-in. Pots	100	1000
Perle	$ 3 50	$ 30 00
Countess of Gosport	4 00	35 00

From 3-in. Pots	100	1000
Richmond	$ 4 00	$ 35 00
Perle	4 00	35 00
Killarney	5 00	45 00
American Beauty	8 00	75 00
Maid	4 00	35 00

WRITE FOR PRICES ON LARGE LOTS.

PETER REINBERG, 1,800,000 Feet of Modern Glass. 35 Randolph Street **Chicago**

Cleveland.

PRICES LOWER.

The past week has been fairly good. Prices are decidedly lower, but the amount of stock moved makes up the difference, and the supply is very large. Carnations especially are a glut and had to be sold at a sacrifice to move them. Peonies are abundant and very good in quality; many of the better grade of "keepers" are being placed in storage. The American Beauty rose crop is on the toboggan, several growers having thrown out these for replanting. Sweet peas are very scarce and the demand for same very great, but not until outside stock comes in will there be any quantity. The demand for daisies, iris, lilies and callas is very good, the quality on the market being also good. Lily of the valley is very scarce and the demand for same for June wedding shower bouquets makes this a much called for flower. Orchids are about done until the fall.

NOTES.

The coming of the Rt. Rev. John Farrelly, fourth bishop of the Cleveland diocese, was celebrated in a fitting way by the Catholics of this city. The sanctuary of the church, corner East Ninth and Superior, was banked with palms and ferns, while the church was fragrant with flowers, floral offerings being sent by many of the business men. Laurel was used largely in the decorations. C. B. Wilhelmy, 3610 West Twenty-fifth street, had the decorations in the church.

Peter Nichols leaves here June 15 for his old home in Greece. Pete will not return alone, it is said, and wedding cigars will be handed around.

Knoble Bros., 1836 West Twenty-fifth street, are putting a lot of peonies in storage at the Sheriff Street Market & Storage Co.

Smith & Fetters were very busy with the decorations for the Union club for Sunday.

B.

HAZLETON, PA.—Geo. H. Seidel reports that business with him has never been better, especially in the line of plants and shrubbery.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond. Rose pots, $15.00 per 100; 3½-in. pots, $18.00 per 100. Brides, Bridesmaids, Golden Gates, Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15.00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle, 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, **Bloomsburg, Pa.**

Surplus Stock

From 2½-inch pots.
Clean, thrifty stock.

	Per 100	1000
ROSES, mostly summer propagated: Crimson Rambler, Dorothy Perkins, Hiawatha, Lady Gay, Minnehaha, Philadelphia, White and Yellow Rambler	$3 00	$27 50
Anny Muller	3 50	30 00
Baby Rambler	2 75	25 00
White Baby Rambler	3 00	27 50
Asparagus Plumosus Nanus	3 00	25 00
Asparagus Sprengeri	3 00	25 00
Hibiscus "Peachblow"	3 00	25 00
Jerusalem Cherry	3 00	25 00
Lemon Ponderosa	3 00	25 00
Palm Areca Lutescens	4 00	35 00

Jackson & Perkins Co.
Newark, New York.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,
WEST GROVE. A

ROSES --- Own Root

Brides, Maids, Killarney, Richmond, Perles and Chatenay
4-in. $8.00 per 100; $75.00 per 1000.

My Maryland, Mrs. Jardine, Rhea Reid and Queen Beatrice
4-inch $12.00 per 1000. No better stock on the market.

'MUMS

Sure, that's our middle name. All you want at $3.00 per 100; $25.00 per 1000, 2½-in. pots.

Asparagus Plumosus and Sprengeri

Fine year old plants, from the bench $8.00 per 100; $75.00 per 1000.

CHARLES H. TOTTY, **Madison, N. J.**

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$5 00	$40 00
Brides, grafted	5 00	40 00
Maids, grafted	5 00	40 00
Killarney, grafted	5 00	40 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	$4 00	$35 00
Smilax	2 50	20 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

BLUEFIELD, VA.—Edward Schneider will establish a growing business in this city.

White Killarney

It is needless to say much about the value of this

NEW WHITE ROSE

its value is so well established. In support of this statement, we might say that we intend to plant not less than 20,000 for our own growing. We have a splendid stock of both grafted and own root plants which we can deliver immediately on receipt of order—gilt-edged planting stock. We guarantee perfect satisfaction.

Strong plants, 2¼-in. pots, own root.....$30 00 per 100; 250 for $70 00; $250 00 per 1000
Grafted plants..... 35 00 per 100; 250 for 82 50; 300 00 per 1000

SPECIMEN HYDRANGEAS

Large Plants Grown in Tubs and Half Barrels for July and August Flowering.

We make a specialty of these and have a grand lot of plants in the finest possible condition. Our plants have never been so well budded as they are this season.

Fine plants in tubs.....$2 00 and $3 00 each Large plants in half barrels.....$5 00 and $7 50 each.

A Few Seasonable Specialties

Boxwood, Pyramidal, fine plants, 3 ft. high.....$2 00 each
4 ft. high.....$3 00 each 4½ ft. high..... 4 00 each

Rubber Plants (Ficus Elastica), very large, bushy plants, in tubs, 4 ft. high, fine for summer decoration..$3 50 each

Phoenix Roebeleni, extra fine plants, 5-in. pots .....$18 00 per doz.

Crotons, strong plants, 3-in. pots ..... 3 00 per doz.
5-in.pots.....$6 00 per doz. 6-in. pots..... 9 00 per doz.

English Ivy, 3½-in. pots.....$12 00 per 100

German Ivy, 2¼-in. pots.....$3 00 per 100

Ampelopsis Veitchii, strong plants, 4-in. pots.$15 00 per 100

Cannas, Buttercup, Souv. d' Antoine Crozy, Pierson's Premier, Mlle. Berat, L. Patry, Florence Vaughan, etc.

	Per 100
Strong, started plants, 3½-in. pots...$40 00 per 1000	$5 00
Dormant roots..... 20 00 per 1000	3 00

Caladium Esculentum, started plants..... 6 00

Castor Oil Beans, (Ricinus) 3½-in. pots..... 6 00

Geraniums, Double Gen. Grant, extra fine plants, in bud and bloom, 3½-in. pots..... 8 00

Geraniums, assorted, pots, in bud and bloom, 3½-in... 6 00

Nasturtiums, 3½-in. pots, bushy..... 4 00

Musa ensete, (Abyssinian Banana), 8-in. pots,...$1 00 each.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

"BUSINESS NECESSITY"

Edition of 1909, Postpaid, $3.00.

THIS is the only term which describes the American Florist Company's Directory, just out. This book, 548 pages of facts tersely told, is issued annually and is an aid to business and money making which no wholesaler or traveling salesman can afford to be without. It contains the name of every Florist, Nurserymen and Seedsmen, arranged both by states and towns and alphabetically; and lists of experiment Station Horticulturists, Landscape Architects, Horticultural Supply Concerns and Leading Foreign Firms. It will save many times its cost by enabling you to cover America with your catalogue and at the same time waste no printed matter or postage on dead names.

AMERICAN FLORIST COMPANY,
324 Dearborn Street CHICAGO.

A Ready Reference Manual.

Whitmani Ferns

Strong, 2½-in., $ 3.00 per 100; 25.00 per 1000.
4-in., 8 fronds, $10.00 per 100.

JOHN A. DOYLE
Springfield, Ohio.

To Close Out

500 Asparagus Sprengeri,
200 Asparagus Tenuissimus,
from 4-inch pots, **$5.00** per **100.**

FERNS, BOSTON and PIERSONI
Mixed from 2½-inch pots,
$2.50 per 100.

ELMER D. SMITH & CO.,
ADRIAN, MICH.

ORCHIDS

Just arrived, the following:—C. Labiata, C. Mossiæ, C. Mendelii, C Harrisoniæ, C. Granulosa, C. Dowiana, Dend. Nobile, D Wardianum, D. Formosum Giganteum, D. Thrysiflorum, Oncidium Varicosum Rogersi, Oncid Phymatochilum, Burlingtonia Fragrans. To arrive shortly: C. Trianæ, C. Percivaliana C. Gaskelliana C Schroederæ

CARRILLO & BALDWIN, Secaucus, N. J.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum D. crassinode, D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.
Write us for prices.

Lager & Hurrell, Summit, N. J.

Vincas

	Per 100
Extra strong, 4-in	$10 00
" " 5-in	15 00
Dracena Ind., 4-in	10 00
Smilax, 2-in	2 25
Geraniums, S. A. Nutt, 3-in	4 00

A fine lot of transplanted **Asters,** all colors and varieties, $5 00 per 1000.

F. C. RIEBE, Florist. **Webster, Mass**

New Carnation Lucille

White, overlaid with Pink.
Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, **Des Plaines, Ill.**

Rooted Carnation Cuttings

Victory, Beacon, Enchantress, Rose Pink Enchantress White Enchantress, White Perfection, Winsor, Lawson and Harlowarden.

Golden Glow Chrysanthemum Cuttings.
Ready at once. Write for prices to

Eli Cross, 25 Monroe St., Grand Rapids, Mich.

Always mention The American Florist when you order stock.

SEASONABLE STOCK

Geraniums Good assortment, 2-in., $2.00 per 100: 3-in., $8.00 per 100
Our selection, 10 good kinds.....$15.00 per 1000

	2-in. Per 100	3-in. 100
Ageratum, 5 kinds	2 00	3 00
Cannas, J. D. Eisele, Egandale, Alph. Bouvier, Florence Vaughan		4 00
Jean Tissett, President Myers, Louisiana, Pennsylvania		5 00
Centaurea Gymnocarpa	2 00	3 00
Cineraria Maritima Candidissima,	2 00	3 00
Dahlias, pot plants, standard kinds and up to $6 00 per 100.	2 00	
Jack Rose, Virginia Maule, Big Chief	50c each.	35 00
Hardy Chrysanthemums, Small flowering	2 00	
Large flowering	3 00	
Hardy English Ivy	2 00	
Lemon Verbena	2 00	
Lobelia, Kathleen Mallard	2 00	3 00
Salvia Bonfire	2 00	3 00
Zurich	3 00	4 00
Senecio Scandens (Parlor Ivy))	2 00	3 00
Smilax, extra strong	2 00	
Tradescantia, dark variegated	2 00	

Not less than 25 at 100 rates; 250 at 1000 rates. Cash with order.

A Personal Inspection Invited. White Marsh is at Cowenton Station, B. & O. R. R., 15 miles north of Baltimore. We meet all trains.

R. Vincent, Jr., & Sons Co., White Marsh, Md.

OUR NEW CARNATION SHASTA

Is always pure white, is always in bloom and is always high grade.
$12.00 per 100; $100.00 per 1000. Send orders **now** to

PATTEN & CO., Tewksbury, Mass. **BAUR & SMITH,** Indianapolis, Ind.

MARY TOLMAN

A new light salmon pink carnation for 1910.
$12.00 per 100. **$100.00 per 1000.**
CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.
$12.00 per 100. **$100.00 per 1000.**

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

A New Seedling Carnation :: :: :: Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

LAST CALL FOR 'MUMS for Early Planting.

SEE PRICES ON THESE NOVELTIES:

	Per 1000
10,000 **Golden Glow, Pacific Supreme, White Cloud,** 2½-inch	$25 00
R C	18 00
5 000 **October Frost,** 2½-in	20 00
R. C	12 00

After June 15 a limited quantity of **Virginia Poehlmann** at $4 00 per 100. Order now.
1000 **Golden Eagle,** new yellow $5 00 per 100
All Standards, midseason and late. 2½-in .. 20 00
R. C. 12 00

Write for our prices on big lots.
Can't be beat. 200 at 1000 rates.

I. M. RAYNER, **Greenport, N. Y.**

Chrysanthemums..

	Per 100		Per 100
Oct. Frost	$1 50	Col. Appleton	1 50
Chadwick	2 50	Y. Bonnaffon	1 50
J. Nonin	1 50	Dr. Enguehard	1 50
Touset	1 50	Intensity	1 50
T. Eaton	2 00	M. Dean	1 50
W. Bonnaffon	1 50		

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00
Nellie C. Moore			

.....$1 00 per doz.; 6 00 per 100; $50 00 per 1000

N. C. MOORE & CO., **Morton Grove, Ill.**

GRAFTED ROSE PLANTS

Choice stock ready to plant in the benches

2,000 **Maids,** 4-inch	$12 00	per	100
3,000 **Brides,** 4-inch	12 00	per	100
4,000 **Killarney,** 3 1-2-inch	15 00	per	100

OWN ROOT ROSE PLANTS.

5,000 **Kaiserin,** 3-inch	$4 00	per	100
5,000 **Maids,** 2 1-2-inch	3 00	per	100

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

AMERICAN BEAUTY

$3.00 per 100; $25.00 per 1000.

Strong, clean, healthy plants from benches. **We need the space. Hence our offer.**

J. A. BUDLONG

37-39 E. Randolph St., **CHICAGO.**

SPECIALTIES.

ROSES from 3-inch pots. **CHRYSANTHEMUMS. CARNATIONS,** for fall delivery. **SMILAX. VIOLETS. IN BEST VARIETIES.**

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Roses == Sold

Except H. P's, H. Cl's, Mosses and M. Niel. New crops coming along finely.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO.

Louisville.

The Kentucky Society of Florists, has decided to hold its annual picnic Thursday, July 15, 1909, at Stower's Grove, on the Eighteenth street car line. Everybody invited.

During the Shriners' meeting the past week the Armory building was beautifully decorated; the entire plant decorations were furnished by Mrs. M. D. Reimers.

DOVER, N. H.—W. H. Elliott, proprietor of the Madbury greenhouses, was in this city on business last week.

NEWBURYPORT, MASS.—July 1 is the date of the annual flower show, held under the auspices of the City Improvement Society.

STONEHAM, MASS.—A. S. Parker, Farm Hill, will erect at once two new greenhouses, 200 feet in length, for violets and chrysanthemums.

STOP! LISTEN!

No Finer Stock was Ever Shipped. Send for Sample.

ROSE PLANTS

American Beauty, 3-in. pots	$7 00 per 100;	$60 00 per 1000
" " 2¼-in. pots	5 00 per 100;	45 00 per 1000
Richmond, 3-in. pots	4 00 per 100;	35 00 per 1000
Chatenay, 3-in. pots	4 00 per 100;	35 00 per 1000
Maids, 3-in. pots	4 00 per 100;	35 00 per 1000
Asparagus Sprengeri, 4-in. pots		$8 00 per 100
" **Plumosus** 3-in. pots		5 00 per 100
Smilax, 3-in. pots		4 00 per 100

UNITED STATES CUT FLOWER CO., Elmira, N. Y.

ROSES

	Per 100	1000
Beauties, 4 in. extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2¼-in	5 00	45 00
Perle, Fine, strong 2½-in.	5 00	45 00
Richmond, Fine, strong 2½-in.	5 00	45 00

	Per 100	1000
Bride,	$ 5 00	$ 45 00
Maid,	5 00	45 00
Potter Palmer, 2½-in.	5 00	45 00
Kaiserin, 3½-in	6 50	55 00
Uncle John, Fine strong, 2½-in.	4 00	35 00
Killarney, Fine strong, 2½-in.	5 50	
" 3½-in.	7 50	

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white exceptionally fine, ready now. R. C $2 50 per 100, $20 00 per 1000; 2½-in. $3 00 per 100 $25 00 per 1000

No more Virginia Poehlmann until July 2, only R. C.

For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in. $4 00 per 100; $35 00 per 1000

Smilax, 3-in. 4 00 per 100; 35 00 per 1000

Above is all choice stock guaranteed to please. 2 per cent off for cash. Terms: 30 days net Remittances must accompany orders from unknown parties.

POEHLAMAN BROS. CO., Morton Grove, Ill.

ROSES

Strong Plants, free from mildew, and in growing condition. Good stock for planting now.

OWN ROOTS

	Per 100	Per 100
Bride and **Bridesmaid,** 2½-in. pots	$5 00	$40 00
Bride, Bridesmaid, Richmond, Chatenay and **Mrs. Potter Palmer,** 3-in. pots	6 00	50 00

S. J. REUTER & SON, Inc., Westerly, R. I.

Stock You Need Right Now

Phoenix Canariensis

A very desirable palm for the center of vases or for porch decorations. It will stand the sun better than any other palm. Price, for 8-in. tubs, 34 to 36-in. high, 12 to 14 leaves, $2.50 each.

Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

6-in.....$ 5.00 per doz. 8-in.....$ 9.00 per doz.
7-in..... 7.00 per doz. 9-in..... 12.00 per doz.

Bedding Stock

	Per 100
Geraniums, Nutt and Bruant, 4-in.	$7 00
Begonia Vernon, 2-in.	2 50
Cobea Scandens, 4-in.	6 00
Caladium Esculentum, 6-in.	8 00
Lobelia, blue, 2-in	2 50
Ageratum, 4-in.	6 00
Vincas, Var., 4-in., short	8 00
Ivy, English, 4-in.	12 00
" German, 2½-in.	3 00
Nasturtiums, 2½-in.	2 00
Castor Beans, 4-in.	6 00
Bananas, 4-in.	8 00
Pansies	2 00
Daisies, Bellis	2 00

Cannas

	Per 100
Chas. Henderson, green, 4-in.	$7 00
Discolor, bronze leaf, 4-in.	7 00
L. Patry, green, 4-in.	7 00
President Cleveland, green, 4-in.	7 00
Souv. de Ant. Crozy, 4-in	7 00
Mixed lot, 4-in.	6 00

Asparagus Sprengeri Baskets

Size 10-in., and nicely furnished. Price, $12.00 per doz.

Asparagus Sprengeri

Price, 3-in. pots, 75c per doz., $6 00 per 100; 4-in. pots, $1.50 per doz.; $12.00 per 100.

Hardy Herbaceous Plants

We have on hand an assortment of Perennials in pots, as quoted below, which can be shipped at any time. When planted from the pots they are sure to grow.

	Doz.	100
Achillea Ptarmica (the Pearl)	$1 00	$7 00
Chrysanthemum Maximum, (Shasta Daisy)	1 50	10 00
Delphinium Azureum (Larkspur, white)	1 00	7 00
" Chinensis, (Blue)	1 00	7 00
" Formosum (Larkspur)	1 00	7 00
Dianthus Barbatus, (Double Sweet William)	1 00	7 00
Dianthus Chinensis (Garden Pink)	1 00	7 00
Lobelia Cardinalis	1 00	7 00
Lychnis Chalcedonica, (Jerusalem Cross)	1 00	7 00
Myosotis Palustris, (True Forget Me-Nots)	1 00	7 00
Rudbeckia Triloba	1 00	8 00
Veronica	1 00	7 00
Yucca Filamentosa, (Adam's Needle) 2-in. pots		2 00

end for complete price list of Decorative Plants, Hardy Trees, Shrubs and Herbaceous Stock.

Boston Fern Baskets

We have a nice lot of 10-in. baskets, nicely furnished. Price, $1.00 each or $12.00 per doz.

Adiantum Cuneatum

3-inch.....$1 00 per doz.: $ 8.00 per 100
4-inch..... 1.50 per doz.: 12.00 per 100

Roses

Crimson Rambler, 5-in. pots, $2.00 per doz.
" " 6 in. pots, 3 00 per doz.
Hybrid Perpetual Roses in pots, $2.00 per doz.

Aucuba Japonica Punctata

The Aucuba is especially useful for porch or garden decorations. Price for large plants, about 4 feet, planted in common tubs $3.00 each.
The same, planted in square mission tubs, $5.00 each.

Bay Trees

	Per pair
12-in. tubs, 26-in. stem, 18-in. crown, height from top of tub, 46 in	$12 00
14-in. tubs, 46 in. stem, 24-in. crown, height from top of tub 64 in	15 00
18-in. tubs, 48-in. stem, 30-in. crown, height from top of tub, 78 in	20 00
18-in. tubs 48-in stem, 36-in. crown, height from top of tub, 80 in	25 00

Climbing Plants

Clematis, Jackmani 6 in. pots, 35c ea.; $4 per doz.
" Queen, 6-in. pots ..35c ea.; $4 per doz.
" Romeona, 6-in. pots..35c ea.; $4 per doz.
" Paniculata, 2-yr.....25c ea. $2.50 per doz.

Globe Boxwoods

We have a limited stock of these Globe boxwoods. They are a perfectly round ball, with no stem. They are most admirably suited for ledges or porches or any other place where formal effect is desired.

Price, in square mission tubs, $6 each.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago.

Scented Gardens.

In bygone years scented gardens were much more the fashion than they are now, the mania for summer bedding having overcome the more sedate attraction of this particular form of flower gardening, says the Journal of Horticulture. This is somewhat to be regretted, as a good scented garden is very pleasant. Sweet odors appeal to everyone. Who has not at some time been arrested by a breath of perfume that stirs some long dormant memory, bringing back to one's thoughts a picture of other scenes, perhaps thousands of miles away? Fragrance is a very curious thing; it cannot be defined. No one can say how it is one scent attracts and another repels. Perfumes cannot be altogether confined to any one part of a garden; they are everywhere. First, of course, is the rose garden. In planting this, big flowering scentless roses are strictly tabooed; only sweet-smelling ones being chosen, such as the tea-scented roses, the beautiful singles, Rosa Damascena, Rosa Gallica, etc; many of the hybrid perpetuals, the cabbage and moss roses, the Banksians and the sweet briars if desired. Clover-scented carnations, pinks, evening primroses, lilies, and the evening-scented tobacco may be interspersed. A garden of this character is much improved if it can be enclosed by hedges or walls covered with fragrant climbers. Then there may be a herbaceous scented garden, containing such plants as primroses, hyacinths, narcissi, violets, and wallflowers in spring; followed during the summer and autumn months by heliotrope, mignonette, sweet sultan, stocks, sweet peas, bergamot, Romneya Coulteri, sweet alyssum, scented-leaved geraniums, and a host of others; while honeysuckles, scented clematis, odorous jasmine, and wistaria will cover arches and walls. Fragrant shrubs can be planted in the above gardens, or a fragrant shrubbery may be made. In this case such trees and shrubs as allspice (calycanthus), daphne, choisya, lilac, magnolia, mock orange, sweet bay, the lemon-scented verbena, and the winter sweet (Chimonanthus fragrans). The last named flowers during the dark days of December. Space should be found for such small shrubs as rosemary, lavender, southernwood, and sweet basil.

Killarney Bench Plants

Grafted, 2 Years Old. Price: $50.00 per 1000.

READY FOR IMMEDIATE SHIPMENT.

These plants will make fine stock for replanting in the benches.

BASSETT & WASHBURN

Greenhouses:
HINSDALE, ILL.

Office and Store:
76 Wabash Ave., CHICAGO

Pine Trees.

Oh, the dark pines, and the dim pines, in the misty winter weather
Wreath'd with filmy lace of cobwebs, hung with raindrops tinkling low.
Oh, the green pines, and the gray pines, where the shadows crowd together,
Pines in splendor on the hillside, heedless tho' the storm winds blow.

Oh, the frost chains, oh, the snow stars, in the tossing branches gleaming.
Oh, the wonder of the pine trees when the world lies sheeted white,
Like a row of lovely ladies in the realm of fairy dreaming,
How the pine trees sweep their curtseys holding skirts aglow and light.

Oh, the green pines, oh, the gray pines, when the other trees are sighing,
And the bare boughs sway and shudder in the wild wind as with fear.
Oh, the green pines, oh, the gray pines, when the winter's slowly dying,
And the spring comes in and hails them, bravest children of the year.

—Pall Mall Gazette.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN WELL ESTABLISHED Plants

Kentia Belmoreana

		Each	doz.
6-in. pot	22 to 24 in. high	$ 1 00	$12 00
6-in. "	24 to 26 in. "	1 25	15 00
6-in. "	26 to 28 in. "	1 50	18 00
9-in. tub	42 to 48 in. "	5 00	

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high.....$ 4 00 each
12-in. " 4 plants, 6 feet high heavy..... 15 00 each
12-in. " 4 plants, 6 to 8 feet high, heavy..... 20 00 each

Joseph Heacock Co., Wyncote, Pa.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Washington.

BOWLING.

In a series of practice games previous to the convention, the five bowlers making the highest average will be chosen to form the team.

McLennon	183	205	187
Hamner	181	190	196
Caldwell	167	171	127
Simmonds	191	195	216
Dalglish	102	145	121
Ernest	149	178	177
Shaffer	185	155	183

At Chicago.

The bowlers fell down badly last Friday evening, the only respectable score being made by E. Farley, who rolled 205 in his first attempt, but fell away to nothing afterwards. The high average men of the previous week, with the exception of Henry Kruchten, who did not roll, all had an off night and their averages suffered accordingly. Even John Zeck, who can usually be counted on to stay around the double century mark, felt the effects of the slump and ran into railroad after railroad with heart-breaking regularity. The attendance was light and it is hoped that every one will make it a point to get out to be on hand this week, as every man must bowl at least 21 games to qualify for the team, which will be chosen to represent the club at Cincinnati. The 10 high average men are: H. Kruchten, 193 1-3; J. Zeck, 182; A. Zeck, 171; J. Degnan, 166; V. Bergman, 164 2-3; G. Asmus, 163; W. Wolf, 161 1-3; E. Schultz, 157 2-3 F. Pasternick, 156 2-3; T. C. Yarnall, 156 1-3.

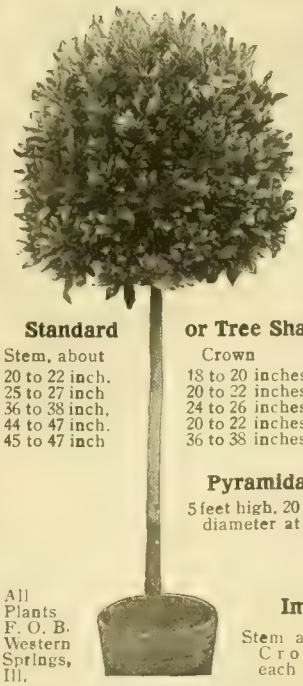
Armstrong	128	100	104
Craig	107	118	120
Goerisch	107	157	115
Byers	114	133	131
Farley	205	113	159
Abrahamson	111	111	113
Ringer	125	75	129
"Sweeney"	100	122	116
Pasternik	135	188	158
J. Zeck	179	172	132
T. C. Yarnall	104	153	152
Wolf	130	166	155
Michelson	121	134	111
F. Ayers	130	141	134
V. Bergman	149	146	161
G. Asmus	147	157	185
"Sweeney"	175	136	145
A. Zeck	164	153	161

ESSEX, CONN.—C. G. Cheney will build another greenhouse near his present one.

ROBERT CRAIG CO.
HIGH CLASS PALMS
and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.

BAY TREES.
Standards, Pyramids and Columns.
ORCHIDS
DIRECT FROM THE WOODS Cattleya Trianae, C. Gigas and other commercial varieties.
JULIUS ROEHRS CO., Rutherford, N. J.

BAY TREES
(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard
Stem, about
20 to 22 inch.
25 to 27 inch
36 to 38 inch.
44 to 47 inch.
45 to 47 inch

or Tree Shaped.

Crown	Each
18 to 20 inches	$ 4 00
20 to 22 inches	4 50
24 to 26 inches	6 00
20 to 22 inches	6 00
36 to 38 inches	12 00

Pyramidal Shaped.
5 feet high, 20 to 22-in. diameter at base....$ 7 50

All Plants F. O. B. Western Springs, Ill.

Imperials.
Stem about 48-50 in. Crown 30-inches each $15 00

VAUGHAN'S SEED STORE,
CHICAGO. NEW YORK.
Greenhouses and Nurseries: Western Springs, Ill.

Evergreen Conifers.

PART I.

A paper read by Samuel C. Moon, Morrisville, Pa., at the convention of the American Nurserymen's Association at Rochester, N. Y., June 9-11.

The aim of this paper shall be to encourage a more general planting of evergreens about rural and suburban homes and an enlargement of the number of species used for this purpose. I have no new varieties to exploit and no new discoveries to advance, but simply wish to reiterate and emphasize the statement that the rural homes of our country need more evergreen trees about them.

The proof of this statement must be conspicuously evident to observing persons who travel about. A farm house or country home without a touch of greenness about its surroundings in winter, lacks an important element of rural beauty. Another very important need for evergreens, particularly on the exposed quarter of a country home, is the protection which they afford as wind-breaks. The economy and comfort which such a barrier affords is not sufficiently appreciated. Fifty years ago the conifers that were planted about farmers' homes were limited to about 10 species, Austrian, Scotch and white pines, Norway and hemlock spruces, balsam fir, American and Siberian arbor-vitæs, larch and deciduous cypress. These were good and useful, and in the vicinity of ornamental nurseries they were planted more or less extensively, but there is a large field for missionary service on the part of nurserymen who employ traveling salesmen in exerting themselves to push the sale of such trees and benefit mankind and our country thereby.

I am not now arguing for the improvement of the lawns and large estates of wealthy land owners. Landscape designers and engineers take care of these and are probably doing their work fairly well. But the multitude of country home owners who are neither very wealthy nor very poor, who do not consult landscape gardeners and who have not had their attention called to some of their own needs nor learned to appreciate them, require the sympathy, encouragement and assistance of the nurserymen. Every nurseryman who raises ornamental trees for sale should have himself, or else have in his employ one who has, some knowledge about the simple arrangement and planting of home grounds and it should be his duty and his pleasure to freely assist his neighbors and patrons with suggestions in such lines.

Among the conifers to be recommended for ordinary planting I would include at least 50 species. These recommendations are based upon experience and observations met with in southeastern Pennsylvania and will no doubt differ somewhat from the results observed by those of larger experience. Long acquaintance with some of these species may cause a modification of opinion regarding them, but, as I know them at present, they are all giving satisfactory results in suitable locations.

THE ABIES.

Abies concolor, or white fir, of the Pacific slope is one of the newer conifers conspicuous by its long, light colored foliage and the light or yellowish bark on the young branches. It forms an elegant specimen and appears to be well adapted for general cultivation. It is rapidly increasing in popularity and is being planted as rapidly as good plants can be produced. Seedling plants vary considerably in shade of color, those with a bluish tint being especially valued, although all shades of them are attractive and desirable.

Abies Nordmanniana or Nordman's fir, is one of the most difficult plants to manage while young, and when well grown one of the finest conifers. I am unable to explain why the terminal buds are so liable to injury or why it is so difficult to develop a new leader when necessary, but these peculiarities and its impatience about being transplanted render it an uncertain subject, requiring especially careful treatment at all times, but the magnificence of well grown plants justifies an extra amount of care, labor and risk being bestowed upon it. Its persistent tendency to send down deep tap roots renders frequent transplanting necessary, and unless the plants are moved every two or three years, they are of little value when transplanted. Severe pruning of side branches is recommended, but never of the terminal shoot. It is to be regreted that in some localities its foliage is occasionally browned by winter, but in the vicinity of Philadelphia, in favorable situations, it is one of the choicest ornaments of a lawn.

Abies balsamea, our common balsam fir; A. Frazeri, the Carolina balsam fir; A. Veitchii, a Japanese species; A. Sibirica, better known as A. picta and A. Cilicica from Asia Minor, are five fine, dark green species of erect and slender habit bearing some resemblance to one another and all of them well adapted for limited areas where there is not room for wide spreading species. All get thin in their lower branches after a few years and thus lose much of their attractiveness. They are more useful in the hands of experienced planters for producing special or formal effects than they are for general planting, although A. balsamea is one of the best cheap rapid growers for use as temporary nurse plants or fillers in new plantations. A. Cilicica and A. Sibirica transplant quite easily, but they start growth so early in spring that their available season is much shorter than that of most other conifers.

A. Cephalonica, from Greece, is another magnificent aristocrat among its congeners. The short leaved, dull green seedlings of this species, as imported from Europe, are very inferior to some of the best specimens seen in this country which have much larger, stiffer foliage of a glaucous shade and are in every way much finer. But grafted plants of these are difficult subjects and slow to develop into good specimens. For this reason good plants are scarce and high priced, but their increased culture should be encouraged.

PICEAS OR SPRUCES.

Turning to the piceas or spruces, for the past 100 years Norway spruce has been, perhaps, more generally planted in the eastern United States than any other conifer and has been of great value. Within the past 10 years and more conspicuously within the last five years, many large and flourishing Norway spruces have unexpectedly shown signs of decline and after lingering for a few years die. Small patches of dead or brown spots appear on the leaves, giving a rusty and unsightly appearance to the tree, until many of these leaves finally drop either that year or the next, leaving the tree thin or naked looking. Small twigs and larger branches continue to die piecemeal until finally the whole tree is dead. I have heard poverty of soil, smoke and gases with which the atmosphere is charged by the ever increasing consumption of coal, fungus diseases, etc., attributed as the cause of this disorder, none of which appear an entirely satisfactory explanation, and I do not know that it has been clearly demonstrated just what is the cause of the trouble. It is a condition greatly to be regretted and for which it is to be hoped a remedy can be found, for it would be a great loss to be deprived of the Norway spruce.

There are several fine varieties of Picea excelsa possessing the good

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qualities of the typical form with interesting variations. The pendulous form known as Wales Weeping, with erect trunk and long horizontal branches with pendulous branchlets, and Alata, another variety of similar character but with pendulous branchlets longer and more slender than the Wales, are both very effective. The weeping form known as Inversa, or more frequently called Inverta, is a freak, liable to assume almost any sprawling shape, and while very efective when appropriately introduced, is not of general adaptabillty for ordinary surroundings.

In P. excelsa aurea the new growth is of a fine golden hue for about one month, and is then very showy, but this color soon changes to the normal green, which differs but little from the type. P. excelsa compacta and Gregoriana form compact little bushes larger in diameter than in height, and are very useful for small yards and formal gardens where an evergreen that will stay small is needed. P. polita, the tiger tail spruce from Japan, is a hardy, dense, symmetrical plant of moderate growth, with stiff sharp pointed leaves, and is very desirable for lawn specimens in grounds of moderate size. It may possibly attain a height of 10 feet in twice as many years. It is in my grounds, the latest evergreen to start into growth in spring, a characteristic which sometimes makes it very convenient in supplying the needs of belated planters and I think it can be safely recommended for ordinary locations.

P. orientalis, the eastern spruce from Asia Minor, is a gem of this genus with much to recommend and nothing to disparage it for general use in almost any position. Elegant enough for the finest park and neat enough for the humblest cottage, and withal hardy enough to stand uninjured in cold, bleak situations where the leaves are blown off of Norway and hemlock spruces and they reduced to skeletons. Eastern spruce and Nordman's fir are indigenous in the same forests in the Caucasus, and they seem particularly suitable companions for associating in ornamental planting, the compact symmetry and elegance of habit of each harmonizing admirably and the distinctive shades of green contrasting with equal effectiveness. These two, with the addition of the silvery blue foliage of Abies Cephalonica, A. concolor or Picea pungens glauca form a trio of rare effectiveness.

THE BLUE SPRUCE.

Picea pungens, or Colorado spruce, in its various shades of green and blue, finds much favor and the choice blue specimens are admired by most persons who see them, although some seem to prefer the green shades as being more natural and more in conformity with their ideas of what an evergreen should be. It is fortunate for nurserymen that it is so, else we might be burdened with a surplus of green spruces left on hand. It is easy to graft Picea pungens on the Norway spruce, but it requires years of patient care in staking and pruning to get them into straight and symmetrical trees. The name of the Holland nurseryman, Koster, has been associated with Colorado spruce until it is looked upon by some planters as an almost essential appendage to a true blue tree. Koster's, however, is not the only desirable type and there are thousands of splendid plants in the country with the rich blue sheen and long massive foliage which are not of the Koster strain.

TSUGA CANADENSIS.

Among all the conifers there are none that can supersede the hemlock spruce in beauty or usefulness as an ornamental tree. For a lawn specimen or for effective grouping or for ornamental hedges it is equally valuable. When I was a boy my father told me to plant 5,000 young hemlocks every year I was in the nursery business. That this country never had been and he did not believe it ever would be, overstocked with good hemlocks. Among the mistakes of my business career I think I may include the fact that I have not always heeded his admonition on this point.

The weeping form known as Sargent's weeping hemlock forms a unique drooping bush. Small plants of it are not very pretty and are therefore disappointing and unsalable, but those who can be induced to plant, on the faith of another's recommendation, one of these plants in an appropriate nook, will in a few years be rewarded by a rare attraction to their garden. It grafts readily on the common hemlock.

BANGOR, ME.—Frank P. Lane has sold out his business on Columbia street and the greenhouses on Mt. Hope avenue to Carl Beers, from whom he purchased them some time ago. Mr. Beers will continue the business as in the past.

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Cannas, King Humbert, 4 in	10 00
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3-in. pots	3 00
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Begonia Vernon, newest strain, the so well known dark variety; in many instances takes the place of Geraniums, etc., 4 in pots	7 00
Begonia Flambeau, or Octavie, sells on sight valuable for window boxes and vases; their fine waxy foliage gives them a beautiful appearance, 5¼-in. pots, $2 00 per doz.	
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SMALL PLANTS.	
Petunias, California Giant, 3 in. pots	4 00
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Verbenas, assorted, in bud, 2½ in	3 00
Coleus, Verschaffeltii, Golden Bedder and Queen Victoria, 2½ in pots	3 00
Coleus, fancy leaved 2½-in	4 00
Tagetes or French Marigold 3-in	3 00
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Parlor or **German Ivy,** 2½ in	3 00
Salpiglossis, 2½-in. to 3-in	3 00
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Lobelia, newest, double, Kathleen Mallard, 3 in	5 00
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Tradescantia, two best colors, 2½-in	$3 00
Thunbergia or Black Eyed Susan, 2½ in	3 00
Sweet Alyssum, Little Gem, 2½-in	3 00
Asparagus Plumosus, 2½ in.	$25 00 per 1000 3 00
3 in.	4 00
Cuphea or Cigar Plant 2½-in	3 00
Vinca Variegata (Periwinkle), 4-in	10 00
3½-in	7 00
3 in.	$4 00 to 5 00
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Lobelias, 3-in	2½c
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Chrysanthemums, Oct. Frost, Polly Rose, J. Nonin, Touset, W. Bonnaffon, Col. Appleton, Yellow Bonnaffon, Dr. Enguehard, Intensity, M. Dean, $1.50 per 100. Chadwick, $2.50 per 100. T. Eaton, Monrovia, $2 per 100. Pompons: Mrs. Beu, $2.50 per 100. Garza, Diana, Antonio, $2 per 100. Nellie C. Moore, $1 per doz.; $6 per 100; $50 per 1,000. N. C. Moore & Co., Morton Grove, Ill.

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Not small, weak, runty stock grown under benches, but the kind that brings back dollars for pennies:

	R. C. Per 100.	R. C. Per 1000.	2½-inch. Per 100.	2½-inch. Per. 1000.
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Earliest October Frost. We have extra fine stock of this variety	$2.50	$20.00	$3.00	$25.00
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Wanamaker	1.50	G. Beauty	2.00
W. Ivory	1.50	M. Bonnafon	1.50
Yanoma	1.50	R. Halliday	1.50
A. Byron	2.00	Pink:	
Merry Xmas	1.50	Rosiere	1.50
Lynwood Hall	2.50	Mme. Chabanne	2.00
Miss Clay Frick	2.50	M. Dean	1.50
C. Touset	1.50	P. Ivory	1.50
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Snow Queen	1.50	A. J. Balfour	2.00
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Plants in soil that have been topped; fine for growing pot plants or 3 or 4 flowers to one plant:

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Estelle	1.50	Perrin	1.50
Polly Rose	1.50	Dr. Enguehard	1.50
		Yellow:	
Wanamaker	1.50	M. Bonnaffon	1.50
Snow Queen	1.50	G. Beauty	1.50
T. Eaton	1.50	Chas. Cronin	1.50

2-inch Stock.

	Per 100.		Per 100.
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Fans. Sirocco. American Blower Co., Dept. A. F., Detroit, Mich.

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Wizard Shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs., $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure. Wm. Thomson & Sons, Ltd., Tweed Vineyard, Clovenfords, Scotland.

FOWLS.

White and Black Swans, Peafowls, White and Pearl Guinea Fowls, etc. Send for catalogue. Edw. S. Schmid, Washington, D. C.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass, French and American, "White Rose." Stenzel Glass Co., 2 Hudson St., N. Y.

Glass, High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

GLAZING POINTS.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c, postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50; 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

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Greenhouse construction and equipment. King Construction Co., North Tonawanda, New York.

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Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham Co., 1133 Broadway, N. Y.

Gutters, Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

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Cooper's Spray Fluids. Wm. Cooper & Nephews, 177 Illinois St., Chicago.

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Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit.

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Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

Printing. Large runs of catalogues a specialty. Write for figures, Regan Printing House, 89-91 Plymouth Place, Chicago.

The Kewanee System of Water Supply. Write for catalogue No. 53. Kewanee Water Supply Co., Kewanee, Ill.

Cut flower boxes. C. C. Pollworth Co., Milwaukee, Wis.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Wire rose stakes and tying wire. Model plant supports. Igoe Bros., 63-71 Metropolitan Ave., Brooklyn, N. Y.

Sterling iron reservoir vases. Sterling Emery Wheel Mfg. Co., Tiffin, O.

Engravings of all kinds. Dearborn Engraving Co., 1322 Wabash Ave., Chicago.

Printing for florists' catalogues. Gorham & Chapline, 114 Sherman St., Chicago.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A, New York.

Hyacinth vases. Nicholas Wapler, 28 Warren St., New York.

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Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

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Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western and 26th St., Chicago.

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Pots, standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

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Pots, red standard. Paducah Pottery Co., Paducah, Ky.

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Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

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Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

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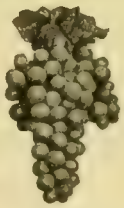

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PULVERIZED SHEEP MANURE

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A strong and quick acting manure highly recommended for carnations and chrysanthemums

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Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

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Beverly, Mass.

A trip among the growers here showed them all busy putting out bedding stock for which there has been a heavy demand this spring. Owing to the coming of President Taft everyone seems trying to make their places more beautiful. We are situated in the heart of the aristocratic north shore of Massachusetts bay, one of the exclusive summer resorts of the country. All report Memorial day trade as fine, ahead of anything yet. Probably after the bedding season is over the usual summer quiet will prevail. The weather is fine.

C. S.

GLOVERSVILLE, N. Y.—Richard E. Loeben is building another large greenhouse containing about 10,000 square feet, necessitated by the rapidly increasing demand for his products. He is also thinking of opening a store down town.

The Early Ad. Catches the Coin.

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Why Spend Your Money on the Out of Date Wooden Bench When You Can

SAVE 25 PER CENT

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Washington.

TRADE FALLING OFF.

Owing to the dull weather outdoor stock has suffered considerably; aside from this business is none too good. The sale of graduating bouquets and baskets has not come up to the standard of former years; the reason for this no one seems to know definitely. Next week no doubt will help to wind up the season, as the majority of schools will close and that means a long rest for us. Funeral work, the mainstay of the trade, has been very scarce, and June brides do not seem to be in evidence so far. Some of the retailers are putting in their summer windows, which are mostly made to represent some sort of aquatic scene.

NOTES.

David Grillbortzer of Alexandria has thrown out all his old stock and is busy getting ready for the next season. He expects to almost double his quantity of roses and carnations.

The store of Geo. C. Shaffer was entered by burglars early Sunday morning. This is the second time that this store has been robbed.

David Saunders has practically disposed of his abundant assortment of bedding plants. He makes a specialty of this sort of stock.

C. Brooke of Chevy Chase is cutting some remarkably good carnations for this season of the year. He also had some excellent peonies.

Clarke Bros. are doing well with their Carnot and Columbia roses, and claim that the demand is greater than the supply.

Alex B. Garden's stock, in spite of the unfavorable weather, is in good shape. He is sending in a lot of fine poppies.

J. H. Small & Sons show a very unique window; it is composed of a bank of rocks, with appropriate plants; at the base is arranged a pond with aquatic plants, and a half dozen young ducks make merry in the water. The ducks have been a great source of attraction. G. S.

Springfield, O.

The market for cut flowers has been rather dull, the demand not nearly equaling the supply. The Decoration day rush came up to everyone's expectations and serves as a consolation for the lull now. Carnations seem to dominate the market, although the peonies are splendid in quality, but not so much in quantity. We are pleased to see the lawns and residences showing an originality in the arrangement of bedding plants, vases and porch boxes never exhibited before; in fact, everywhere presents an air of festivity.

NOTES.

Everyone will be pleased to hear that Gustav Schneider has already commenced work on two additional new houses. Business has come rapidly to him, he having won his way into the hearts of the people here by his excellent work and courteous treatment of all. He recently made the purchase of an up-to-date delivery wagon, with a driver well uniformed to match. We feel that people in this city are becoming more and more appreciative of a well appointed turnout, even for a florist, and this addition made by Mr. Schneider is hailed with delight by all.

Opha Jackson, F. E. Good of this city and S. W. Crowell of Rich, Miss., attended the Nurserymen's convention at Rochester, N. Y. All had a very jolly time and continue with their praises of the wonderful hospitality tendered them while there. They also made a trip to Niagara Falls enjoying Natures' Beauty Spot of our great and glorious country to the fullest extent. All returned home, ready to go back next year, claiming they had a trip never to be forgotten.

Reeser & Youngstrand have completed their quite extensive greenhouses and are now ready for business. Mr. Reeser was formerly a well-known florist of this city, but sold out some time ago, imagining he was more fitted for brokerage affairs. He soon found that his flower loving nature could only be satisfied by being among and cultivating the objects of his longing, so we find him again entering the lists. He is indeed welcome and all wish him success.

S. W. Crowell, manager of United States Nursery Co., of Rich, Miss., is paying his annual visit to his many friends in this city. His arrival just at ths time came as rather much of a surprise, but none the less pleasant and agreeable.

S. F. McGrew, receiver of Fairview Floral Co., has accepted application for sale of the property, as it has been decided that same cannot be run on a paying basis.

Schmidt & Botley recently made an addition of 25 acres to their property for the purpose of growing nursery stock. C. G.

ST. LOUIS, MO.—Seeking shelter from the storm, 50 track laborers employed by the United Railways Co. "rushed" the establishment of John F. Quinn, 1047 North Grand avenue. Quinn did not accord his callers a hearty welcome. On the contrary, he tried to eject them from his place. The ejecting process resulted in a stampede on the part of the laborers, many of whom got jammed in the doorway and involved a riot call for the police. Incidentally, the laborers played havoc with the flowers and did considerable damage.

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Send prices quoted and we send the books.

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THE HORTICULTURISTS' RULE-BOOK (L. H. Bailey).—Contains information valuable to all those engaged in any branch of horticulture. Illustrated. 312 pages. 75 cents.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent).—The most complete and authentic work on the subject. The pages number 826, with over 600 illustrations. $6.00.

THE ROSE.—Its cultivation, varieties, etc. (H. B. Ellwanger).—A complete guide of the cultivation of the rose, together with the classification of all the leading varieties. $1.25.

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SUCCESS IN MARKET GARDENING (Rawson).—Written by one of the most prominent and successful market gardeners in the country, and who has the large t glasshouses for forcing vegetables for market in America. Outdoor and indoor crops are treated. Illustrated, $1.00.

HEDGES, WINDBREAKS, ETC. (Powell).—A treatise on the planting, growth and management of hedge plants for country and suburban homes. A volume of 140 pages, with twenty-two illustrations. 50 cents.

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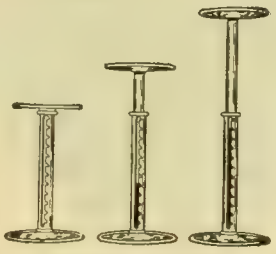

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When we rebuilt our plant we were undecided whether to use your boiler or a cast iron boiler. We are satisfied we made no mistake in using Kroeschell.
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prevents boiling over, cures sluggish circulation, saves fuel, smaller mains can be used, water can be heated to 240° without boiling, increases circulation, 3 to 5 times faster; no hot water system complete without it.

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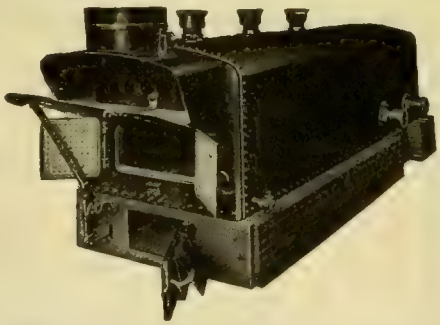

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E. LIGHTHISER & SON, Xenia, O.

Have used upright boilers, tubular boilers and cast iron boilers. Your boiler heats up better and easier than any boiler we have ever had anothing to do with. If we ever buy another boiler, it will certainly be a Kroeschell. POOLE & PURLLANT, Washington C. H., O.

I have fired boilers both here and in Europe for the last forty years. The Kroeschell is the best type of boiler I have ever used. I have two cast iron boilers, also a locomotive boiler, coupled with yours, but did not need to use the cast iron boilers this winter. Your No. 7 boiler is rated at 15 000 sq. ft. of glass and carries 25,000 sq. ft. of glass until the outside temperature goes down to 10° of frost. We have no trouble to keep temperatures in our houses with easy firing since we installed your boiler. The main flows and returns are heating our potting shed and packing room which are not included in the amount of square feet of glass. From the boiler to the farthest end of our violet houses and return is 800 ft. and circulates very quickly.
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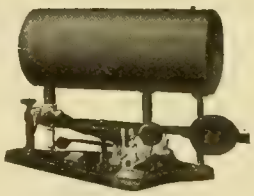
Will you please inform me which is the most economical hot water boiler for greenhouse purposes, that is, one in which the gases pass under the shell of the boiler for its entire length and then return through the tubes or one in which the gases pass direct from the fire box to the tubes, the tubes being divided whereby the gases return to the front of boiler the same as in the first proposition.
M. R. T.

The kind of boiler to be used should be determined largely by the draft that can be furnished. Ordinarily a boiler in which the gases pass under the boiler and return through the tubes will give the best results, but with a tall chimney and a little more attention to firing, it will be more economical to have the gases pass directly from the fire-box to the tubes, especially if the boiler has to be forced to furnish the heat needed in the coldest weather. L. R. T.

For The Greenhouse



MOREHEAD Return Steam Traps

The present improved **Morehead Automatic Return Steam Traps** are the result of twenty years' use and development in thousands of heating and steam plants throughout the world. The "Morehead" was the **original** and has at all times been the **standard** by which the comparative values of other traps have been measured. They've stood the test for 20 years, and have gained the well-done" of all users. Will you join the ranks? **Catalogue on request.**

MOREHEAD MFG. CO., 1047 Grand River Avenue, Detroit, Mich.

Greenhouse Building.

Gloversville, N. Y.—R. E. Loeben, one greenhouse.

Essex, Conn.—C. G. Cheney, one greenhouse.

Herington, Kans.—Chas. Rissmon, one greenhouse.

Stoneham, Mass.—A. S. Parker, two greenhouses 300 feet long.

Allentown, Pa.—E. Kroninger, two greenhouses 50x400 feet.

Philadelphia, Pa.—A. E. Burk, one greenhouse.

Freeport, Ill.—Louis Bauscher, three greenhouses, 27x170 feet each.

MURPHYSBORO, ILL.—The new offices at Claude Wisley's greenhouses are completed.

The Superior Improved Internal Fired Boiler

Made in Ten (10) Sizes.

No brick foundations required: can be cleaned while in use: shipped on skids ready for installation. Specially designed for greenhouse use.

Investigate before buying.

Catalogue and Prices on Application.

Superior Machine & Boiler Works,

125-133 W. Superior St. CHICAGO, ILL.

Mention the American Florist when writing

A WIRELESS MESSAGE

IF YOU WANT

BUY FROM WHO RUNS THE IN THE YOU WILL WEAR A CAUSED BY FROM GROWN IN

BIG

PHIL FOLEY FACTORY CITY OF CHICAGO. SMILE PROFITS CROPS HOUSES

RESULTS

WESTERN, ARTESIAN AND CAMPBELL AVES. 25TH TO 26TH STS. CHICAGO.

BUY YOUR BUILDING MATERIAL WOOD IRON GLASS FROM FOLEY

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WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

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The first special newspaper in the world for floral arrangement.

260 ILLUSTRATIONS ANNUALLY

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BINDEKUNST-VERLAG,

J. Olbertz, ERFURT, GERMANY.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates: 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers! A complete line of locomotive, fire box boilers, Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.; some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters.

Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted: 50 4½-in. tubes: 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

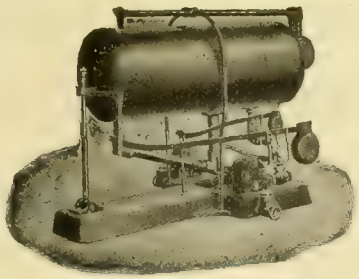
Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., **35th and Iron Streets CHICAGO.**

Mention the American Florist when writing

INSTALL A "DETROIT" Return Trap

And You Buy a Guarantee.



"Detroit" Return Trap. (Patented)

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one-tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

Dept. A. F. **DETROIT, MICH.**

CHRIS. PFEIFFER BOILER CO.,

66-68 Michigan Street, CHICAGO.

We build a special steel hot water boiler shipped ready for operation. No brick required.

Phones: Main 4361. 4399.

Steel Return Tubular Boilers

The Most Economical Type of Boiler for Greenhouse Heating. Highly recommended by well-known florists.

JOHNSTON HEATING CO., **138 E. 31st St., NEW YORK.**

Greenhouse Glass

Don't fail to write us if in the market. Prices are extremely low. We guarantee our Glass in every respect.

GIVE US A TRIAL.

Baur Window Glass Co.
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MASTICA

FOR Greenhouse Glazing
USE IT NOW.
F.O. PIERCE CO.
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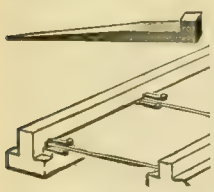
NEW YORK

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply

THE BEST WAY
to collect an account is to place it with the
National Florists' Board of Trade
56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application



Siebert's Zinc Glazing Points.
Good for small or large glass. do not rust, easy to drive ⅝ and ⅞ inch Per lb 40c. 5-lbs. $1.85. 20-lbs $7.00.
VAUGHAN'S SEED STORE, Chicago or New York.

San Francisco.

The last meeting of the Pacific Coast Horticultural Society was the best attended meeting held for a long time. T. F. Taylor of the Golden Gate park read a very interesting and instructive paper on "Australian Shrubs as Grown in California." Four new members were initiated into the society. After the meeting refreshments were served and, with music and songs, a very happy evening was enjoyed by all present, the last of them not leaving until the small hours. P.

McMinnville, Ore.

Business has been better during the past year here than it has ever been, especially during the winter and up to the present. Stock has been plentiful and good and money easy. Altogether it has been a very prosperous year. We wish to thank THE FLORIST for the fine supplements being sent out each week. S. H. M.

AUBURN, ME.—Hugh Roak has bought a farm in the town of Vienna, and removed to that place. He was formerly in the employ of his father, Geo. M. Roak.

Attention!! Glass Buyers!!

GREENHOUSE GLASS.
You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint
The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

H. M. HOOKER COMPANY,
WHOLESALE GLASS AND PAINTS,
Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

MODERN PRIZE WINNING PLANTS

They bloom and operate the entire year. We are the

World's Largest Producer of Greenhouse Glass

Ask the dealer and insist upon having our brand. If he cannot supply your wants, write direct to headquarters.

AMERICAN WINDOW GLASS CO.
Farmers' Bank Building, PITTSBURG, PA.

The James H. Rice Co.

IMPORTERS AND JOBBERS
GREENHOUSE GLASS
A SPECIALTY
WINDOW GLASS, PAINT, PUTTY, ETC.
Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets. CHICAGO

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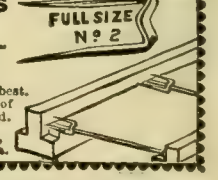
— Specialists in —
GREENHOUSE GLASS
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE.

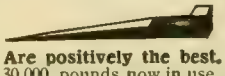
Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address
JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.

Holds Glass Firmly
See the Point
PEERLESS
FULL SIZE No 2



Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER, 714 Chestnut St., Phila., Pa.



SIEBERT'S ZINC Never Rust ® GLAZING POINTS
Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, 40c per lb., by mail 16c extra; 7 lbs, for $2.50 15 lbs. for $5.00 by express. For sale by the trade
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

You now think to try steam in that next house and by using

The Burnham

know you can reduce expenses. You are going to try different fuels, for **The Burnham** will burn any kind.

Lord and Burnham Co.

IRVINGTON, N. Y.

New York. **Philadelphia.**
Boston. **Chicago.**

Pittsburg.

BUSINESS FAIR.

The past week has been a very trying one; business was fair, but could have been better. The only kick coming is the amount of stock flooding this market, the surplus being enormous. Funerals and weddings were quite numerous this week which tends to liven things up a bit. Some very fine stocks, American Beauty roses and feverfew are seen.

NOTES.

The piscatorial artists of the various floral stores are overhauling their fishing tackle and getting ready for a trip to the far north, among the lakes.

The United Floral Co. reports everything moving nicely and some very fine carnations are being cut.

Nicholas Harris, of Harris Bros., sails for Greece shortly. We do not look for him to return alone.

Anton Krut, of Butler, reports Decoration day trade good and is starting to remodel his plant.

Frank Faulk of the North Side Market, who has been very sick, is back at his post again.

B. F. Engle of Rochester, Pa., has had several large weddings the past week.

Butz Bros., of New Castle, are growing some fine Cattleya Mossiæ.

A. W. Smith is having an enormous run on plants.

We can supply in any size or length and in carloads or any quantity

PECKY CYPRESS

The Ideal Lumber for Greenhouse Benches.

MOST LASTING. LEAST EXPENSIVE.

When ordering your other building material, it is wise to add enough **Pecky Cypress** to make the shipment a carlot and so take advantage of lower carload freight rates.

WRITE TO US FOR PRICES.

THE FOLEY MFG. CO., 26th and Western Ave., **Chicago**

Use our patent Iron Bench Fittings and Roof Supports.

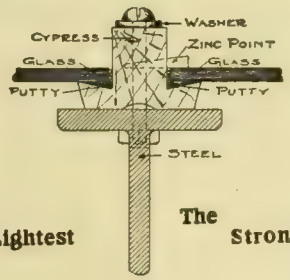
THE **JENNINGS** IMPROVED **IRON GUTTER.**

IMPROVED VAPORIZING PANS
For Tobacco Extracts, etc. Send for Circulars.

DILLER, CASKEY & KEEN,
S. W. Corner Sixth and Berk Streets PHILADELPHIA.

VENTILATING APPARATUS.

The Payne Steel "T" Bar Greenhouses



The Lightest The Strongest

Half-full Size.

HOUSES of this type constructed with both curved glass eaves and straight glass eaves. Least amount of shadow. Least amount of wood. No drip. Greatest durability.

JOHN A. PAYNE,
Greenhouse Designer and Builder,
260-274 Culver Avenue,
JERSEY CITY, N. J.

New Catalogue Now Ready

Our new 1909 Catalogue is now ready to be sent out, and you should have one of these. The book will be sent postpaid on request to anyone.

You should get our prices on heating pipe before you place any order.

JOHN C. MONINGER CO.
113 E. Blackhawk St.,
CHICAGO

DON'T change or increase your heating surface until you have investigated the

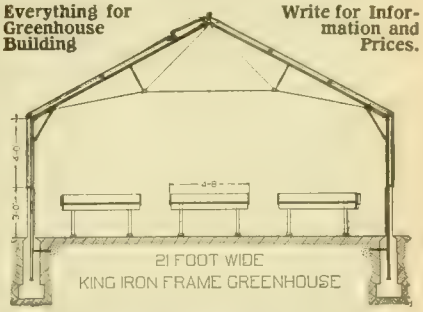
HOLLY STANDARD CIRCULATOR

It Makes Good.

SUB-TARGET GUN COMPANY
Steam Engineering Department.
216 High St., **BOSTON, MASS.**

Everything for Greenhouse Building

Write for Information and Prices.

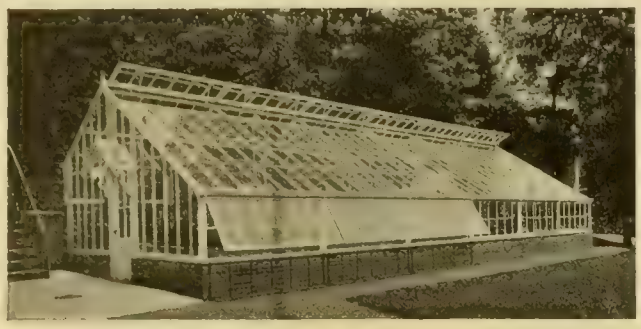


In Widths From 14-ft to 54-ft.
WITHOUT POSTS.
King Truss Sash Bar Houses
Iron Gutters and Eaves
Iron and Cypress Benches
Ventilating Machinery

King Construction Co.
NORTH TONAWANDA, N. Y.

Mrs. John Foss, of Etna, has been ill the past week.

A. M. Murdoch has been ill with a heavy cold. J.



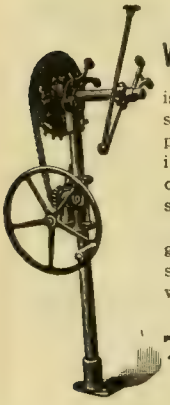
Our Iron Frame Greenhouse

There is an argument — a strong argument — in favor of putting money into a house that is not an experimental construction. The THEORY of how long a house will last is a good talking point, but the FACT that our Iron Frame Construction has stood the test — the severest kind of tests — makes it the only **Safe Proposition.** Send for our circular.

Hitchings & Company

Designing and Sales Offices
1170 Broadway, New York

General Offices and Factory
Elizabeth, N. J.



ADVANCE
VENTILATING APPARATUS

is not an experiment. It is a success and a live issue, pleasing every one who tries it. Easy to set up, easy to operate, neat, strong and is sold at one price to all.

Give us a trial order under guarantee and judge for yourself what we have and see why we are pleasing all who try it.

Free circulars.

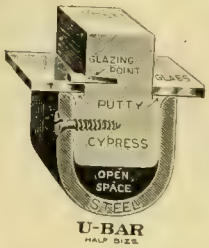
THE ADVANCE CO.,
RICHMOND, IND.

Lenox, Mass.

The regular meeting of the Horticultural Society held June 5 was largely attended, President A. Jenkins occupying the chair. J. Cant, W. Green, W. McGregor, and L. C. Peters were elected active members of the society. An exhibit on which special praise was bestowed was a magnificent vase of extra fine varieties of Odontoglossom crispum exhibited by A. J. Loveless; the flowers were remarkable for their size and substance, some of the spikes being fully three feet in length, and we question if a finer exhibit of Odontoglossum crispum varieties has ever been seen in Berkshire county. They certainly reflect great credit upon the grower, and were unanimously awarded the society's highest award, first class certificate and cultural commendation. Mr. Loveless gave a short talk on orchid culture, which was greatly enjoyed by all present. E. Jenkins was awarded a diploma for a fine vase of Gladiolus Golden West.

We were all pleased to welcome back Geo. Foulsham, who has lately been appointed to take charge of W. B. D. Field's estate and gave an interesting description of his recent sojourn in Savannah, Ga. He also spoke of his recent visit to Messrs Charlesworth's orchid nurseries in England. The following firms have generously donated premiums towards our fall exhibition: A. T. Boddington, R. & J. Farquhar, W. W. Rawson, Scott Bros., Bay State Nurseries, Bon Arbor Chemical Co., Pierson U. Bar Co., Howard & Morrow, Hews & Co., Lager & Hurrell, Peter Henderson Co., W. E. Marshall Co., Chas. H. Totty and Julius Roehrs Co.

G. H. INSTONE, Secy.



About That New Catalogue of Ours

A year and a half is a long time to be getting out a catalog, but when you gardeners and superintendents see how complete it is in every detail — what an unusual collection of illustrations and practical plans are shown, and how beautifully it is printed, you will agree with us that it is worth all the time it has taken.

Rather than keep you waiting for the entire catalog, we are binding up sections of advance sheets as soon as they come from the press, and mailing out these sections separately.

If you want to know why the U-Bar Greenhouses are the best houses built — the ideal construction for parks, private places and florists' show rooms — why no other concern can build a house that approaches them in lightness, attractiveness and durability, just send us your name and address, and let us know what you are thinking of building, and the first section of 64 pages will come to you by return mail.

U-BAR GREENHOUSES

PIERSON U-BAR CO.
DESIGNERS AND BUILDERS
1 MADISON AVE. NEW YORK

HALF A CENTURY OF

MANUFACTURING AND BUILDING

GREENHOUSES

or about 25 years older than the next oldest in the business— that's our record.

Lord and Burnham Co., IRVINGTON, N. Y.
New York, Boston, Phila., Chicago.

A BRIDE'S BOUQUET OF ORCHIDS.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, JUNE 26, 1909. No. 1099

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

Copyright, 1909, by American Florist Company.
Entered as Second-Class Matter Nov. 11, 1891, at the Post Office at Chicago, Illinois, under Act of March 3, 1879.

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Address all correspondence, subscriptions, etc., American Florist Co., 324 Dearborn St., Chicago.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the everyday florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue as otherwise they may miss some of this high grade work.

AMERICAN SEED TRADE ASSOCIATION.

Twenty-Seventh Annual Convention at the Clifton House, Niagara Falls, Ont., June 22-24.

Tuesday Morning's Session.

The first session of the American Seed Trade Association convention met in the convention room of the Clifton House, Niagara Falls, Ont., June 22, with nearly 100 members present. President Woodruff's very able and complete address was given close attention, and at its conclusion met with a most hearty round of applause and a vote of thanks was proposed by Burnet Landreth.

Secretary Kendel's report showed that the total membership in June, 1908, was 155. At the Detroit convention 12 members were received into the association. Five have resigned or otherwise dropped, making the net gain seven, with a present membership of 162. The treasurer's report showed a good cash balance on hand. The feature of this session was the very complete report of Chairman Geo. S. Green of the legislative committee, before discussion of which adjournment was taken for luncheon. New members proposed at this session were the Corgell Elevator Co., Minneapolis, Minn.; Williams Seed Co., Norfolk, Va.; Edw. C. Foltz, Southern Seed Co., Louisville, Ky.; D. B. Gurney, Yankton, N. D.; the Northern Seed Co., Valley City, N. D., and H. A. Scuethorpe, Port Hope, Ont.

Tuesday Evening's Session.

Wholesale grass seed dealers, clover seed dealers and members making a specialty of grass seed, to the number of 30, met on Tuesday evening with Chas. D. Boyles in the chair. A committee of nine was appointed to report on the advisability of formng a wholesale grass seed dealers' association having for its object such measures for the protection of that branch of the trade as in their judgment seemed advisable. A committee consisting of Messrs. Wood, McCullough and Lupton was formed to urge irrigation experiment project at Washington. Professor Zavitz of the Ontario Experiment Staton read a paper on root crops, Edgar Brown of the Department of Agriculture, Washington, D. C., made an informal talk on the seed testing work of the department.

Professor L. H. Bailey personally read his paper on "Rural Progress" on Wednesday afternoon. It was received with great interest. At 2:30 the whole party, including ladies and guests, took carriage rides to the American side, visiting the prominent establishments there. Many took the Gorge ride in the evening. On Thursday forenoon the election of officers will take place.

President Woodruff's Address.

This twenty-seventh annual convention finds us as a whole still further elevated on the swelling tide of prosperous business conditions that each of my predecessors has reported for past four or five years. As far as I can learn, not a member of our association has to report aught but a most properous and successful business year, and the fact that not a member of our national association has met with failure in business for several years, surely speaks well for the trade as a class of merchants of above the ordinary ability and integrity.

THE DEATH ROLL.

Death has claimed three of our members during the past year: Warren W. Rawson, Boston, Mass., died August 9, 1908; S. W. Flower, Toledo, Ohio, died November 13, 1908; C. L. Allen, Floral Park, N. Y., died May 21, 1909.

LEGISLATION.

We have been spared the anxiety and labor that came so severely upon President Green and his associates in struggling with the Mann pure seed bill in March and April, 1908, and as far as federal seed legislation is concerned, the immediate future seems to offer no special resist-

ance. However, Mr. Green, chairman of committee on seed legislation, has, with characteristic diplomacy, worked out a draft of a bill which he will tell you more about in his report later on. A persistent wave of state legislation has occupied the attention of many of our members in the various states, and we are greatly indebted to those members who have so unselfishly and strenuously exerted every effort by giving their time and means in the rush season to successfully for the most part, shape state legislation in a safe and sane direction.

Bills regulating the sale of agricultural seeds have been introduced in 1909 and sessions of the following named state legislatures: New Hampshire, Wyoming, North Carolina, North Dakota, Michigan, Missouri, New York, South Dakota, Wisconsin, Iowa, Rhode Island and Minnesota. New Hampshire required a guarantee of the purity and germination of all agricultural seeds; Wyoming a label classifying seeds "pure," "uncleaned," or "mixed." "Pure" seeds require an arbitrary standard of purity and viability, and the other two classes freedom from certain named weed seeds. Applies to all seeds.

North Dakota applies to all seeds, freedom from certain named weed seeds. Seeds must be true to name. Not applied to unclean seeds. The Michgan act guided by the efforts of seedsmen, applies to all seeds except corn, peas, beans, cucumbers, melon, pumpkin and squashes; not more than two per cent of certain named weed seeds and the seeds must be five per cent pure and variety named, but leaves the whole matter to the discrimination of the director of the agricultural station; Missouri applies to all seeds arbitrary standards of purity and germination; Wisconsin, all seeds, label containing the purity and the germination; Rhode Island, standard of purity and germination. I have not before me the bills from North Carolina, Iowa and Minnesota, and as to New York, South Dakota and Iowa, the bills have been in the hands of local seedsmen and if not changed to suit seedsmen, bills have been killed.

BILLS THAT HAVE BECOME LAW.

Bills have become laws in the following states: New Hampshire, Wyoming, North Carolina, North Dakota, Wisconsin. The Michigan bill was recently passed by the house of representatives and was before the senate, but I am not informed whether bill was finally passed before the legislature adjourned or not.

We now come to what I consider one of the most serious matters for consideration that our association has ever had to face. I might go so far as to call it a crisis, viz.: The subject above alluded to at length, seed legislation. In President Green's address last year one of the most important features was his discussion of legislation affecting the sale of agricultural seeds. His urgent recommendation that the most important work of opposing unwise legislation or advocating reasonable legislation was promptly and unanimously adopted by the convention by the appointment of a committee of seven, a consolidation of the two former standing committees on seed legislation and seed adulteration. This committee of seven in the last year has done a great deal of valuable work and its members deserve the sincere gratitude of this association in their able, unselfish devotion of valuable time and strength to the cause so wisely placed in their hands. It is a self evident fact that the committee's efforts have materially assisted in some states to avoid the enactment of undesirable legislative acts.

It is true that about nine states, prior to 1909, enacted statutes affecting seeds, but this current year, 1909, has been notable for the wide spread interest in this subject by legislative bodies. So many seed bills have been filed, some fairly reasonable in their requirements, but most of them so severe that a contemplation of the effect of such laws, if passed generally, on the legitimate seed trade is not merely disquieting, it is alarming. Within the past year these bills have been introduced in the legislatures of 12 states and eight states have placed in their statute books so-called pure seed acts. In one state, the statute requires a guarantee of the percentage of both purity and germination of all seeds, a warranty which seed organizations and seed growers and merchants generally have after careful, and mature consideration deemed unfair, impracticable and impossible. Already from that state are coming demands on seedsmen in other states to warrant the purity and germination of their seeds. As most legislation is usually the adoption of the legislation of other countries or states, the example of this state, just mentioned, will undoubtedly be felt in future legislation.

Vice-President J. C. Robinson.

Popular Western Seedsman Favored by Many for President.

LICENSE TAXES.

Another state statute, besides requiring warranty of purity and germination, demands that whoever sells seeds in that state shall pay a license tax of $25 per annum. This is the first attempt in this line, which if generally followed, may entail rather a heavy item of expense to seedsmen doing a large interstate business. The constitutionality of this act is at least questionable but it is nevertheless a statute law, and must be treated as such until it has been thoroughly tried out. Several states have recently proposed to fix arbitrary standards of purity and viability of seeds. Such legislation is highly questionable. In Europe, where all of these questions have been prominently considered, no country has enacted by law arbitrary standards, for well known and oft repeated reasons. Other features of recent seed legislation are the elimination of weed seeds, locality where seed is grown, names of seed merchants or growers, applicability of law only to seeds sold in package or in bulk of one pound or more, severe fines or imprisonment, or both, etc. Not one statute or proposed bill adopts the principle of intentional deception. The Kentucky seed act, passed many years ago, stands alone in American statutes adopting this reasonable principle,—similar to the adulteration of seeds act of Great Britain. There is no attempt to relieve the seedsmen from the rigors of the law in the case of an honest mistake. It is hardly possible or necessary in my brief discussion of this subject to state in detail the many important features of legislation affecting our business because we all, to a greater or less extent within the past year, have had contact with the serious conditions raised by this legislative interference.

ACTIVE CAMPAIGN NEEDED.

The proper and successful method or policies to be suggested or adopted by this important association and by seedsmen generally to meet the situation are not easily or lightly determined. In the first place seedsmen are usually very busy men at the time of year when legislatures are considering these laws. It is, therefore, most trying to and almost impossible for them to keep an eye open for the introduction of seed bills if they are proposed to carry on an active campaign of objection to apparently ill advised legislation. Much more difficult is it to ask merchants individually or as officers of this association, to create and systematically conduct an organization which shall take prompt and effective notice of all bills introduced in congress and all the state or territorial legislatures in the United States. There is no question that to do this is necessary. I am told that in one legislature last winter a severe seed bill was enacted and no seedsmen in that state or any other knew about it till some time after its passage though there were, as members of that legislature, three seedsmen, two of whom were chairmen of important committees.

Another difficulty is to understand the legal effect of some of these seed bills, some of which are long, ambiguous and involved in legal technicalties and phraseology. It is highly necessary that we should have the aid of counsel who knows about the difficulties under which the seed business is carried on, who will study the question broadly, who will create and manage the work of legislative information above outlined, and who will judiciously, forcibly and opportunely present our cause preferably in the early days of framing legislation or if necessary in the courts. It is not suggested that counsel shall become the sole representative of this association. It seems wise to me that a committee of five shall be appointed by this convention here and now assembled from the members of this association, to which shall be intrusted the general work connected with seed legislation and all legal questions guided by the directions of this convention as to policies, and that counsel be retained annually under a reasonable retainer.

THE WHOLESALE SEEDSMEN'S LEAGUE.

The Wholesale Seedsmen's League is, as you all know, a corporation closely associated in spirit and in active measures with this association. In fact this association is a member of the league and has always had the closest and most satisfactory relations with it. Nineteen of the league's 22 members are members of our association, and the officers and directors of our association hold similar positions in the league. For the purpose of securing an effective organization to supply the service in legislative affairs above suggested, it is most fitting and proper for our association to join with the league in this work, our

ideas and objects being identical. At a meeting of the board of directors of the league in New York on April 1, 1909, to which were invited the officers and members of the executive committee of this association, your president and several members of said committee attending, it was unanimously voted to appoint a committee of five, styled the "committee on legal affairs," to be composed of three directors of the league who shall be members of this association and the president and members of the executive committee of this association, and the duties of that committee were carefully and clearly stated.

Curtiss Nye Smith, of Boston, Mass., was considered competent to fill the position of counsel to this committee and to the associations and he was retained from April 1 for one year at a retainer of $1200 per annum, the expenses and salary to be shared by both associations. The duties of this committee and of counsel have been fully stated in a circular letter sent in April to all members of both associations, so I shall only briefly state, to refresh your memory, that these duties are to acquire prompt knowledge of bills, affecting seed interests, introduced in congress, state legislatures, and to oppose unfair or advocate wise legislation. Counsel shall collect all seed laws, bulletins and cases, prepare opinions and, when asked, conduct, legislative hearings. Besides advising the officers of the associations, counsel will advise, without charge, members of both associations on any legal matter pertaining to their business as seedsmen except that debts shall not be collected nor cases tried by counsel except under a special arrangement of fees. A prominent firm of seedsmen, not members of either seed association, expressing their approval of this scheme, volunteered to contribute $100 annually to the expenses. Supported by the unanimous approval of your officers and members of the executive committee and by my own judgment, I gave my conditional approval of this plan, the condition being, that this convention having the whole matter before it, give its formal approval and acceptance.

I desire to add that since April, counsel has taken active measures to assist local seedsmen in their opposition to legislation in Missouri, Michigan and Rhode Island. He has written opinions, petitions, supplied lists of cases for seedsmen in litigation and given legal advice to seedsmen in their private business. He has organized, subject to the co-operation of this association in the plan above suggested, a system, quietly, quickly and efficiently to supply legislative information. His reports to the committee indicate an undertsanding of the needs and requirements of the situation and I believe he will be entirely successful in not only relieving seedsmen of a great burden of detail work but also supply us with that legal advice which will materially assist us in the important work before us. I therefore present these matters to the convention with my recommendation that this association co-operate with the Wholesale Seedsmen's League in the appointment of the standing committee of legal affairs, and the purpose for which said committee is organized and in retaining C. N. Smith of Boston as counsel for said committee and this association for the year April 1, 1909, to April 1, 1910, and that this association make a proportionate contribution as its share of the expense thereof. Furthermore I recommend that any resolutions of this convention directing or suggesting the policies of this association in regard to seed legislation or on legal matters be transmitted to the chairman of said committee on legal affairs.

Before passing this most important subject, I desire to further emphasize the necessity of providing separately laws or paragraphs governing sale of vegetable and flower seeds from those governing sale of grass, clover, and field seeds. The physical possibility to determine accurately from samples of the seed itself seeds of most grasses and clovers, and the physical impossibility of judging vegetable and flower seeds by sample, puts each in a class by itself, and consequently it is my opinion that no legislation can or should be enacted in a single act that will be either workable, fair or just.

THE TARIFF.

Next in importance to seed legislation to this association is in my opinion the tariff, and a vast amount of work has been done by the committee on tariffs and customs. To our chairman, J. C. Vaughan, in particular, is due the utmost thanks of this association for the persistent and strenuous effort he has given in calling and attending meetings in New York, Buffalo, N. Y., and Washington. Mr. Vaughan has been assisted greatly by the large number of personal letters that our members have written their congressmen and senators. The great and all important question has been the desire of the trade for specific duties in place of the present ad valorem schedule. The difficulties and objections to the ad valorem schedule are too obvious and well known to here enumerate.

At this writing no man can predict the final disposition that will be made of the seed schedule, but I am pleased to say that present indications point very strongly to the specific schedule being adopted. I have been kept informed by letters constantly from United States Senator Morgan G. Bulkeley of Connecticut of the status of the seed paragraph. On May 30, section 262 was agreed to by the senate. This section revised as it now stands reads as follows: "262 seeds.—Castor beans or seeds, 25 cents per bushel of 50 pounds; flaxseed or linseed and other oil seeds not specially provided for in this section, 25 cents per bushel of 56 pounds; poppy seed, 15 cents per bushel; mushroom spawn and spinach seed, one cent per pound; beet, except sugar beet, carrot, corn salad, parsley, parsnip, radish, turnip and rutabaga seed, four cents per pound; cabbage, collard, kale and kohlrabi seed, eight cents per pound; egg plant and pepper seed, 20 cents per pound; seeds of all kinds not specially provided for in this section, 10 cents per pound."

If therefore, the house now concurs with the senate, we shall have what we all so eagerly desire, specific duties. It is difficult to place the credit for this where it belongs; several perhaps may claim it, in fact one seedsman, a member of the association, told me a few days ago that we were indebted to one of the senators from his state for the whole seed schedule. Be this as it may, it matters not who claims or deserves the credit. The main point is to get specific duties and to use the words of a famous admiral "There will be glory enough for us all." I am firmly of the belief that the death knell of low grade seeds is sounding throughout our land, and that seeds of high grade will command much better prices than formerly, and cheap, or low grade seeds will go begging.

THE PRESENT DISCLAIMER.

I question if as many as five per cent of the planters of the nation would purchase so termed "low grade" or "cheap" seeds at any price, if they were told or knew the quality at time of purchase. I am convinced that the time is rapidly approaching when we must sell our goods under a more liberal disclaimer than we have done for so many years. No one is more reluctant than I to abandon the bridge that has carried safely, but new demands and changes will eventually force a label that is more specific, enlightening and equitable than the mere statement of a name of a variety of seed, and the accompanying disclaimer now in general use. I am well aware of the temporary injurious effect that might ensue from the use of a label specific in its statement of per cent of purity and vitality. To illustrate, some 12 years ago when the crop of

VAUGHAN'S SEED STORE, CHICAGO, WEST SIDE BRANCH AND WAREHOUSE.

onion seed due purely to natural conditions was far below the normal in vitality; I knew a house actuated by noble purpose who placed in a particular variety of onion seed a conspicuous label in addition to the regular label reading thus "This onion seed owing to unfavorable weather conditions at harvest time shows a germinating power of 74 per cent. Please make your plantings accordingly so as to get a full stand. We are sending you 25 per cent more seed than your order calls for, gratis." Admittedly, this was a fair proposition, but what of the result? Many planters returned the seed, nearly all were so suspicious that they consented to use the seed only after a voluminous individual correspondence, a rare few were thankful for the information given, and planted accordingly. This incident would almost prove the truth of the converse of the old adage "What one don't know don't hurt him." One of the most prominent and successful houses in the trade makes much of the phrase "The plain truth about seeds." Does any one question the wisdom of the elaborate use (backed up by scrutinous practice) of this phrase on the part of this successful house?

THE FREE SEED QUESTION.

Publicity is the cure for many abuses as has been so forcibly illustrated throughout our land for the past few years, and we as an association should not only welcome, but assist in every way consistent efforts to correct any abuses that may exist in our trade. The government seed shop is working on full time and doing a most flourishing and growing business. An ugly and vicious animal will often hang himself if given rope enough, and it has been my hope that this monster would ultimately sink of its own weight, but alas, on the contrary, the powers that be have elected that this congressional pet should be further nursed by increased appropriations and the amount appropriated for free government seeds for 1910 has been increased $75,000 or a total for the year of $317,960. Congress therefore forces the Department of Agriculture to expend this enormous amount of the people's money to disseminate common varieties of seeds procurable at any corner grocery store in the land, and in addition to this, nearly a like amount of cost to the postal department in transporting this vast amount of mail matter through the mails. During the last nine years our government has expended this enormous total of $2,197,800 for the distribution of seeds of which it is safe to say not 10 per cent are ever used for seed purposes. In the act making appropriations for the Department of Agriculture under the clause "For the purchase, propagation, testing, and distributing of valuable seeds, bulbs, trees, shrubs, vines, cuttings and plants, and all other necessary expenses, etc." The following sums have been provided from 1903 to 1909, inclusive:

1903, $270,000; 1904, $290,000; 1905, $290,000; 1906, $242,920; 1907, $240,920; 1908, $238,000; 1908, $50,000; 1909, $268,000; 1910, $317,960; Total, $2,197,800.

Next year, 1910, each senator, member and delegate will be allotted 20,000 packages of vegetable seeds, 2000 packages of flower seeds. These statistics are of course common knowledge, but I have reviewed them so that we may have them printed in our report for ready reference. The free seed matter has been given such careful thought and study for years by the association, and the able committee we now have on this subject may have some recommendations further than to keep up a perpetual warfare whenever a vulnerable spot shows itself. I have nothing new to recommend by way of fighting this monstrous evil.

This association put itself on record last year as favoring a parcels post, and instructed committee on postal laws to prepare suitable resolutions and forward same to the postmaster general and to the committee on postal affairs of the house and senate. I presume this committee followed the instructions of this body and added its influence and arguments to the cumulative mass of similar data before the congressional committee on postal laws.

Postal facilities at present seem to be quite satisfactory and adequate for the expeditious and proper handling of the mail matter of the seed trade and there seems to be no particular demand for any radical changes on the part of our association, and considering also the amount of work before congress that both the present and the future holds for us in the tariff and legislation, that it might be well for us to let the postal matters rest for a while without further agitation. Legislative bodies are liable to get tired if pounded too much by any one interest or organization, and the importance of the larger interests above alluded to outweigh in my opinion anything we need from the postal department. Fractional currency, the "shin plaster" if you please, would do more for the mail order seed houses than anything short of parcels post, but even this is a subject that while it is well to keep it alive in our thoughts, is very far from an achievement.

Seedhouse of O. H. Will & Co., Bismarck, N. D.

INSURANCE.

Albert McCullough presented to our last convention in a very able and well studied manner, the matter of insurance and a most enlightening discussion followed. Mr. McCullough was entirely right that we should look most carefully to this expense item in our business and made valuable suggestions. No formal action has been taken to my knowledge, but I recommend that a new standing committee of three on insurance be created for the purpose of working out the whole subject in tangible form for our next annual convention. Mr. McCullough's discussion last year was confined largely to his recommendations of grading or classifying risks. It is my opinion that a mutual plan of insurance can be worked out, possibly a mutual company formed and judging by the many hardware mutual insurance companies in the various states, most of whom are in a flourishing condition, the plan is a decided success. I was informed that a saving of from 25 per cent to 50 per cent in insurance rates has resulted from the mutual hardware insurance companies.

THE PRESIDENT OPTIMISTIC.

It has been the custom of the association to pay the actual traveling expenses of its executive committee up to an amount less $10 of the expense in attending the regular winter meeting. I recommend that the entire actual traveling expense of the executive committee at its annual meeting, also the entire traveling expense of the legal committee be paid from the treasury, and I also recommend that the chairman of the committee on customs and tariff, J. C. Vaughan, be reimbursed for his traveling expenses to all meetings he has attended for this purpose during the past year. In conclusion, I beg to state that I am an optimist through and through on the future of the American seed trade. I cannot too strongly emphasize the object of our association as outlined in Article II of our constitution, viz.: "All stand together in the effort to improve and perfect a standard of business integrity which shall include purity of stocks, honesty of representation, carefulness of obligations, and promptness of execution." Let us make quality our watchword in the fullest sense of the term, and put it in practice in deed as well as in word, and our reward will be sure and positive, if we will be the means of making two blades of grass to grow where one grew before, we will indeed leave the world the better for our having lived in it.

SEED GROUNDS OF WATKINS & SIMPSON, ENGLAND.

One-eighth Acre of Gypsophila Paniculata Compacta (Like a Dropped Cloud).

A SEED trade visitor lately in Washington believes the Aldrich bill will become a law before August 1, and that the seed trade will secure specific duties. He says it is believed President Taft will sign the bill.

Treasurer Kendel's Report.

RECEIPTS.

From initiation fees	$ 350.00	
Membership dues	1,445.00	
Interest at bank	15.75	
Sale of codes	15.89	
Total		$1,861.64

DISBURSEMENTS

Secretary's salary	$ 250.00	
Stenographer's services	113.00	
National Council of Horticulture	200.00	
Expenses of executive, tariff committees, etc.	203.72	
Guest tickets at banquet.	32.00	
Printing report and index	265.00	
Other printing and stationery	57.66	
Cuts and mailing cases	13.25	
Membership in national board of trade	25.00	
Membership in Wholesale Seedsmen's League	25.00	
Membership in Merchants' & Manufacturers Ass'n.	10.00	
Postage	31.19	
Badges	32.50	
Incidentals	8.55	
Total	$1,261.87	
Surplus	$ 599.77	
Total		$1,861.64

Seed Legislation.—Its Uses and Abuses.

BY L. H. PAMMEL, AMES, IA.

I am pleased to present this paper to you because our interests in this matter are alike, namely, to improve the quality of seed sold in America. This means that the seller should not only secure the best seed from the farmer, but he should offer him the best that can be had. The business should be so conducted that only the best seed should be demanded by the consumer and he should be willing to pay for it. A cheap article always, or nearly always, means a poor class of goods. The passage of laws in Europe has improved the quality of seed sold to the home consumer and has thrown upon our market a poor quality of seed.

SEED TESTING.

The beginning of seed testing work was started in Tharandt, Germany, in 1867, where the pioneer worker, Dr. Nobbe, established his laboratory. At this early date Dr. Nobbe revealed some startling conditions in the German seed trade. Later other seed control stations were established in other parts of Europe. Laws were passed correcting the abuses of the seed trade, which crept into the business. On this side of the Atlantic much work has been done, but the pioneer work was done by Dr. Jenkins of Connecticut about 30 years ago. Subsequently Gerard McCarthy of North Carolina, Dr. Beal of Michigan, Butz of Pennsylvania, Deval, Selby and Hicks of Ohio, Hillman of Nevada, Roberts and Freeman of Kansas, Harvey of Maine, Garman of Kentucky, Stewart, Rolfs, Pammel and King of Iowa, Jones of Vermont, Hicks, Pieters, Brown, Key and Hillman of the U. S. Department of Agriculture, Clark, Paton and Saunders of Canada have contributed papers on the subject. These investigations have revealed the necessity of the passage of some laws to restrict the sale of seeds containing weed impurities of some kinds and to demand a reasonable standard of vitality.

There are two opposing factors in the American seed trade. One, the farmer, who is anxious to put all the blame on the seed merchant for his failures. The seed merchant, on the other hand, claims that he cannot be held responsible for the seed after it has left his hands. This is certainly true in part as to vitality, but is not true when it comes to purity. In many cases there is no excuse for selling Canadian bluegrass seed for Kentucky bluegrass. The introduction of many noxious weeds is a serious detriment to the American farmer. No doubt the farmer in many cases is responsible for the weediness of the seeds. Throughout our land the slogan of the farmer should be to clean the fields of weeds. The farmer is annually wasting millions of dollars in non-productive crops by allowing weeds to grow. The fields should be like gardens, kept free from weeds. If this could be done the seedsmen would have an easier time.

S. F. LEONARD SEED CO.'S COLUMBUS, (WIS.), WAREHOUSE. (See Page 1138.)

STANDARDS OF PURITY AND VITALITY.

My experience leads me to believe that it is not wise to pass a law fixing the standards of purity and vitality, as was done in Iowa, against my judgment, and as some of the proposed laws in other states and national law have suggested. It seems to me that it would be better to allow a commission to fix these every year; this is especially true of the vitality. Seed under the best of conditions will vary somewhat in its power to germinate, its vitality depends on so many different extreme factors. Take corn as an illustration of the changeable conditions of vitality. Some years ago the writer had some seed corn which was kept in an office. This germinated 100 per cent, but 60 days later dropped to 80 per cent. This corn was never wet or dampened in any way, yet there was a loss in vitality due to the absorption of atmospheric moisture, a small amount to be sure, but sufficient to cause respiration to proceed with a speedy loss of vitality. Seasons vary because of difference due to the amount of moisture in the atmosphere; this will change the vitality of corn or any other seed. Several kinds of mould have the power to enter the seed and so rapid deterioration is brought about. Prof. Holden has shown how poor the vitality of corn is under different Iowa conditions. Prof. Holden states that 800 samples sent from farmers in the state showed a vitality of only 80 per cent. Similar results have since been obtained from 3,300 samples, 70 per cent of which gave good strong germination, 15 per cent weak, and 15 per cent worthless.

What is true of corn also occurs in other seeds. The seed merchant must depend for his supply of seed from the farmer. In many cases the growing of farm seeds is a secondary consideration with the farmer. If the crop of clover seed promises well, the seed is saved. The seed may have been exposed to varying conditions of weather which causes a rapid deterioration of the seed. I have seen clover for seed in shock all winter or well into freezing weather. Under these varying conditions the clover becomes mouldy and hence the seed likewise is mouldy and will show a poor vitality. It seems to me that the varying conditions must be taken into consideration, and that no law can fix the standard of vitality. It must needs be changed slightly from year to year; as to purity the matter is more fixed because of the methods of cleaning, a mechanical process and yet there are some conditions that cannot always be fixed. Some new and dangerous weed is occasionally introduced and this must be dealt with at once. I would prefer to have some general law and then leave the standards of purity and vitality to the judgment of some commission. In the case of the United States to the secretary of agriculture, the seed expert and some seedsman on the commission. This would be a fair and impartial tribunal. In the case of different states the matter can be placed in the hands of the botanist, the director of the experiment station and a third member to be selected from some seedsmen.

UNIFORM LAWS.

As far as possible the different states should have uniform laws, so that seedsmen can adjust their business to the conditions imposed by law. I do not believe any law should be passed which cannot be met honestly and fairly well enforced. In the passing of laws two things must be taken into consideration, (1) the farmer who needs the seed to sow on his land, (2) the seed merchant who offers his goods for sale. The farmer, so far as my experience goes, is more interested in seeds that are free from noxious weeds. He will not buy, knowingly, seeds of clover that contain Canada thistle, and other noxious weeds. It means much to him not to have Canada thistle, dodder or buckthorn in his field. The farmer would rather sow a little more clover seed to the acre than introduce bad weeds. I have on my table a letter from a farmer in Story county, Iowa, who sowed something like 25 acres of oats which contained quack grass seed. It is hard to say how much it will cost him to remove this quack grass. It seems to me, therefore, it is well to include in our laws some forbidden noxious weeds which shall only be present in very small amounts or traces. These weed seeds should be

mentioned on a label. The person who buys then knows what he is getting. Some noxious weed seeds may find their way into the seeds by accident in spite of care. Every law should contain sections on the adulteration of seed. Every honest dealer, and I am sure that the vast majority of American dealers should be classed here, do not favor the adulteration of commercial seeds. An honest business causes an increase in trade. Substitution should not be tolerated, and I am sure this association would not sanction the misbranding or adulteration of seeds. I am sure it has exerted a wholesome influence on the seed trade and can do much more by insisting on care in this respect.

THE FARMER AND THE SEEDSMEN.

In most of the laws which have been enacted in this country and in Canada the farmer is given an advantage in the sale of seed. He can dispose of his seed to farmers or for recleaning; it seems to me that the farmer should be subject to the same laws governing the sale of seed as the merchant is. Why should he be allowed to sell seeds foul with noxious weed seeds? I know of farmers in Iowa whose clover seed contained many noxious weeds which were sold direct to the consumer. This is one way of spreading many of the noxious weeds. Should not the farmer be held responsible as much as the seedsmen?

INSPECTION OF FIELDS.

I believe it a good policy for the seedsman or some reliable expert to examine clover and grass fields for weeds before the crop is harvested. A casual inspection by an expert will easily detect weeds and fields that are especially foul with weeds should not be harvested for seed. There is no reason why the different docks, especially curled dock, should be in a clover field, because the weed is easily destroyed. It is difficult to remove all of this weed seed by any mechanical process.

EDUCATIONAL FEATURES.

The various laws which have been passed in the several states have been of great benefit in that the farmers have insisted on better seed and the local merchants have had their seed examined. I am told by Mr. Page that in many cases farmers prefer to buy the cheaper grade of seed. I am not informed, but from correspondents over the state I am inclined to think there has been a greater demand for good seed. I am inclined to think that the farmers and merchants have been more vigilant since the passage of seed laws.

The various experiment stations and the Department of Agriculture should publish more bulletins giving information about seeds. This is to be a campaign of education, not only for the seed merchants, but the farmer. It will help to clean the fields, and in doing this we have won a great battle for American agriculture. I doubt whether it is a wise plan to publish the names of seed merchants who have sold seeds that are not up to the requirements. In all of our own publications we have purposely refrained from the publication of names of seedsmen who have sold seeds not up to requirement. The publication of these facts will not better the conditions. What we need is the active co-operation of seedsmen, farmers and seed merchants. In this way we can increase the efficiency of the business. The experiment stations, farmers and seedsmen should stand on mutual ground. The nearer the seedsmen try to conform to a just law the less need for drastic legislation. May I add here, let us all pull together for ose common aim? The first great step in the right direction will be a law to inspect the imported seed from Europe, which finds its way into our markets from various sources. Some law which will stop the importation of seeds containing Canadian bluegrass, Canada thistle and dodder in clover seed, a law which will be fair to the importer. This association can well put itself on record in favor of the bill which has been proposed by Mr. Green to be introduced in Congress. I can see nothing wrong in its provisions.

UNIFORM METHODS.

Those who have had any experience in testing seeds know that most divergent results are given as the result of seed tests made by the various stations and the Department of Agriculture. Edgar Brown of the Department of Agriculture as chairman

Design for Italian Funeral.
By Frank Valentine, New York.

of a committee on Methods of the National Association of Seed Analysts, has sent out samples of various seeds to be tested in the way usually done by various individuals. The results will no doubt disagree in many ways. The statistics should be collected, compared and methods used by different individuals discussed and some uniform method decided upon. Until the methods are uniform results will always differ. I believe it would be well for this association to appoint some one to carry on a similar line of work. The methods used can be compared with the results obtained by Mr. Brown. So long as the results obtained by seed analysts differ so widely, laws cannot be effective. The personal equation always enters and this must be taken into consideration, but uniform methods must be adopted.

Convention Notes.

Lem W. Bowen is on the sick list.

Beet seed is being traded in by cable.

No authentic news from Henry Salzer's gold mine.

The secretary's report showed a net gain of seven members, a total of 162.

Peter Hollenbach looks for lower prices on onion sets if good weather continues.

The big mail order houses must figure earnings; they know when to quit the seed business.

Henry and Marshall, the only New York City delegates, kept the long distance wires hot.

Pea prospects in Wisconsin are good to date, says E. M. Parmelee of the John H. Allan Seed Co.

Read what "Parisian" writes the AMERICAN FLORIST regarding French seed crops in this issue.

Pea growers are not doing very well, but the families of two leaders in the trade spent the winter in Europe.

To this date the hotel has presented no damage claims for injuries to the decorations or the furnishings of the house.

Chas. A. Heath of the Albert Dickinson Co. must be a user of seeds himself, owning over 6,000 acres of Michigan land.

The government seed distribution arranged for this year is said to be double that of the average for the past five years.

The twenty-seventh annual convention finds many faces of the younger generation and many of the members of earlier years gone.

Nebraska growers at Waterloo and Valley report corn looking twice as good as at convention time last year. Their onion sets, about 100 acres, are looking well.

Onion set growing has extended around Chicago materially, even to Racine, 60 miles north, and to other points northwest and southeast probably 30 miles.

Visiting the farmers with an auto and giving their families a ride helps to do business, says Henry Windheim, the Nebraska grass seed man, and the farmer pays the freight.

Lester L. Morse of C. C. Morse & Co. was slightly injured in a stage coach accident in Humboldt county, California, last week; the overturning of the stage gave him a narrow escape.

J. W. E. Tracy of the Department of Agriculture is making a trip to the Pacific northwest and left Chicago June 21. Mr. Tracy is particularly interested in the improvement of sugar beets.

The first session on Tuesday morning opened with the record attendance of nearly 100 members, and though the Falls view was a trifle misty the mint in the refectory showed a fine fresh growth.

The American seed trade, Prof. Tracy said last year, may include men who sell for 30 minutes on a bargain day, 12 packets for a nickel as well as one who contracts to supply two carloads of clover per day for a month.

Those Present.

Among those present or represented we noted the following:

W. D. Affield of the Albert Dickinson Co., Chicago.
Linnaeus Allen, Floral Park, N. Y.
L. H. Archias and wife, Sedalia, Mo.
W. H. Barrett, Adrian, Mich.
Thos. A. Barrett and wife, New York.
F. T. Barteldes, Lawrence, Kans.
O. P. Beckley of J. H. McFarland Co., Harrisburg, Pa.
F. W. Bolgiano, Washington, D. C.
W. D. Bonsall, Philadelphia.
Chas. D. Boyles of the Albert Dickinson Co., Chicago.
Chas. P. Braslan, San Jose, Calif.
C. H. B. Breck of Jos. Breck & Son, Boston, Mass.
S. E. Briggs, Toronto, Ont.
Chas. S. Briggs, Rochester, N. Y.
B. F. Brown, Brown Bag Filling Machine Co., Fitchburg, Mass.
Edgar Brown, Washington, D. C.
J. D. Brown, Brown Bag Filling Machine Co., Fitchburg, Mass.
Arthur B. Clark, Milford, Conn.
F. M. Clark and wife, Milford, Conn.
W. M. Clark, Milford, Conn.
Benj. P. Cornell, of Schisler-Cornell Seed Co., St. Louis, Mo.
C. D. Coventry, of the W. W. Barnard Co., Chicago.
C. Herbert Coy, Valley, Neb.
E. F. Crossland, Toronto, Ont.
Edw. F. Dibble and wife, Honeoye Falls, N. Y.

Chas. Dickinson, of the Albert Dickinson Co., Chicago.
E. C. Dungan, of Wm. Henry Maule, Philadelphia, Pa.
Marshall H. Duryea, of Henry Nungesser & Co., New York.
A. T. Ferrell, Saginaw, Mich.
W. T. Fonda, Rochester, N. Y.
J. H. Ford and wife, Ravenna, O.
J. F. Garfat, Hogg & Lytle, Port Huron, Mich.
John F. Geary, of the Leonard Seed Co., Chicago.
A. H. Goldsmith, of John Lewis Childs, and wife, Floral Park, N. Y.
Miss Blanche E. Goldsmith, Toledo, O.
Geo. S. Green, of The Illinois Seed Co.
W. H. Grenell, Pierrepont Manor, N. Y.
Chas. P. Guelf, of the Jerome B. Rice Seed Co., Cambridge, N. Y.
Albert Guttman, of The Madson Seed Co., Manitowoc, Wis.
Albert L. Hart, of C. C. Morse & Co., and wife, San Francisco, Calif.
A. O. Hogg, Hogg & Lytle, Toronto, Ont.
Peter Hollenbach, Chicago.
Harry L. Holmes, Harrisburg, Pa.
F. H. Hopkins, Sturgeon Bay, Wis.
M. L. Hotchkiss and wife, Orange, Conn.
M. J. Huggins and wife, Pierrepont Manor, N. Y.
A. C. Johnson, of the Albert Dickinson Co., Chicago.
F. G. Johnson, of S. M. Isbell & Co., Jackson, Mich.
W. Frank Jones, Cadwell & Jones, Hartford, Conn.
L. A. Kelly, Cleveland, O.
Sec'y C. E. Kendel, Cleveland, O.
M. Kirkeby, of the Kirkeby & Gundestrup Seed Co., Chicago.
Frank P. Kiser, of E. F. Spears & Sons, Paris, Ky.
Burnet Landreth, Bristol, Pa.
W. C. Langbridge and wife, Cambridge, N. Y.
E. S. Leonard, of the Leonard Seed Co., Chicago.
W. B. Lucas, of the John H. Allan Seed Co., Sheboygan, Wis.
L. L. May and wife, St. Paul, Minn.
L. B. McCausland, Ross Bros. Seed Co., Wichita, Kans.
Albert McCullough, Cincinnati, O.
H. G. McCullough and wife, Cincinnati, O.
Henry Nungesser, New York.
Chas. N. Page, of the Iowa Seed Co., Des Moines, Ia.
E. L. Page, Greene, N. Y.
E. M. Parmelee, of the John H. Allan Seed Co., Sheboygan, Wis.
J. L. Peppard, Kansas City, Mo.
W. T. Phillips and wife, Toledo, O.
Fred S. Plant, Plant Seed Co., St. Louis, Mo.
F. S. Platt and wife, New Haven, Conn.
R. Pommer, of D. I. Bushnell & Co., St. Louis, Mo.
P. J. Quilter and wife, Binghamton, N. Y.
Jerome B. Rice and wife, Cambridge, N. Y.
Miss Marguerite Rice, Cambridge, N. Y.
J. C. Robinson, Waterloo, Neb.
A. L. Rogers, Alpena, Mich.
Miss Inez Rogers, Alpena, Mich.
Miss Hazel Ross, Worcester, Mass.
Walter D. Ross, of the Ross Bros. Co., Worcester, Mass.
Wm. G. Scarlett, Baltimore, Md.
A. W. Schaefer, of the Albert Dickinson Seed Co., Minneapolis, Minn.
H. M. Schisler, of the Schisler-Corneli Seed Co., St. Louis, Mo.
H. A. Scuethorp, and wife, Port Hope, Ont.
E. J. Sheap, of S. M. Isbell & Co., Jackson, Mich.
Sam M. Sibley, of the Leonard Seed Co., Chicago.
H. S. Siebel, of A. T. Ferrell & Co., Saginaw, Mich.
Herman Simmers, Toronto, Ont.
Albert H. Smith, of the Leonard seed Co., and wife, Chicago.
C. Willard Smith, Chicago.
Curtiss Nye Smith, Boston, Mass.
F. A. Stecher, Rochester, N. Y.
Walter P. Stokes, Philadelphia, Pa.
Jefferson Thomas, of the J. Horace McFarland Co., Harrisburg, Pa.
T. J. Tobin, Missouri Seed Co., Kansas City, Mo.
Fred W. Vick, Rochester, N. Y.
Chas. Vick, Rochester, N. Y.
J. C. Vaughan, Chicago.
Kirby B. White, of D. M. Ferry & Co., Detroit, Mich.
Oscar H. Will, Bismarck, N. D.
S. F. Willard and wife, Wethersfield, Conn.
S. A. Wilson, of the L. L. Olds Seed Co., and wife and child, Madison, Wis.
H. G. Windheim, of the Nebraska Seed Co., Omaha, Neb.
C. F. Wood, of Wood-Stubbs & Co., Louisville, Ky.
Gordon F. Wood, Richmond, Va.
H. W. Wood and wife, Richmond, Va.
Miss Woodruff, Orange, Conn.
President Watson S. Woodruff and wife, Orange Conn.
C. A. Zavitz, Guelph, Ont.

PORTLAND, ORE.—Otho S. Hendee, Samuel B. Hendee and Edwin L. Hendee have incorporated the firm of Hendee Bros., to engage in gardening business. The capital is $5,000.

THE RETAIL TRADE

STORE alterations, cleaning and painting will now be in order.

Designs at Italian Funerals in New York.

Of the people of many nationalities who have found homes in the great city of New York none are more mindful of or show more affectionate respect for their dead than the Italians. It may also be stated that most of these people have the artistic temperament highly developed and their orders call for designs that are at once suggestive and, from their viewpoint, appropriate. While all may not agree with their ideas in design work, that is a matter which, in the past, has been the cause of widely differing opinions among the best designers of all nationalities. We must admire the respect and reverence shown their dead by the Italian people as it is one of the fine qualities that promotes kinship among all civilized peoples. The designs here shown were executed by Frank Valentine, 158 East One Hundred and Tenth street, New York.

Wreath of Blue Iris and Stock.

SEE SUPPLEMENT WITH THIS ISSUE.

The Spanish iris is becoming more and more popular as a cut flower and works up remarkably well into wreaths and other designs. The colors are bright and varied, the flowers last well and no flower, excepting possibly the orchid, is so distinctive and telling in large quantities. A wreath or any other large design of carnations or

STANDING WREATH BY FRANK VALENTINE, NEW YORK.

roses, sweet peas or violets, unless very carefully made, has a rather heavy appearance, the flowers settling into a block, but the peculiar outlines of the iris prevent any possibility of stiffness if the individual flowers are kept well apart.

Blue irises and white stocks are a very fine combination, so are the self-yellow irises and sweet peas with their indescribable tints hovering between mauve, purple and blue. White irises go well with almost any other flower or make an elegant wreath with only the accompanying green of ferns or asparagus and a bunch of color to break any suspicion of flatness that may exist in the dead white. Wreaths of this description make a welcome change from the lilies, roses and carnations so frequently seen and as the season of irises, through the various species, is a moderately long one quite a number of different ideas can be worked out with them. While the Spanish and English varities are possibly the most graceful, yet there are many very beautiful things among the German irises that come later. They are usually cheap and can be used plentifully while there is no lack of variety in color. Their keeping qualities are not of the best, though if cut in a partially opened state and allowed to develop in water just before being used there will not probably be much to complain of on this score.

Peonies at Springfield, O.

The peony season at the Good & Reese Co., Springfield, Ohio, was made the occasion of an invitation to the trade and public to visit the farm. The past two weeks have been the peony weeks, and those interested in the production of the higher class and improved kinds would have profited much by a visit. The wonderful collection has been reduced by constant and ruthless suppression of all varieties that are not distinct or in some way superior, consequently the best and greatest variety of choice, superb flowers only are now included. Each one rivals the other, as if they were belles at some great ball, each holding an individual court and attracting all men's attention. A little way off the flowers seemed blended into a carpet of dazzling beauty. There the deep crimson and the glistening red, here the purest white and yonder white with golden hearts.

To attempt to describe all the varieties would be an endless task, but it is impossible to pass by without a word of praise to some of the grandest and most magnificent ones. Festiva Maxima in all her stately beauty of the purest white with just a little crimson in the center was magnificent. L'Eclatante, standing on a slight knoll with thousands of massive velvety red flowers held erect, drew from all an exclamation of admiration. The mammoth pure pearly white flowers of Lady Derby completely hid large and well foliaged three-year-old plants and received a share of admiration from all visitors. The harmony of pure white and delicate pink blended in Golden Harvest appealed to everyone in its fascinating and superior beauty. Madame Florel, a veritable princess of clear, intense and very clear pink added a dazzling touch of color never to be forgotten. C. G.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Tuberoses.

No matter where tuberoses are grown they are very subject to red spider attacks and, if grown under glass, constant spraying is necessary to keep this insect in check. The finest flowers and the best stems are produced when the atmosphere is cool but moist, the moisture being kept up until the flowers begin to open. Continue to plant bulbs in suitable numbers according to the number of spikes needed and keep the side shoots constantly pulled off the growing plants. This is practically all the care they need now except to water freely and support the forming flower spikes.

Peony Mme. Forel.

Grown by Good & Reese Co., Springfield, O.

Flowering Shrubs.

In cutting the branches from spireas, viburnums and others, there is considerable risk of injuring next season's crop of flowers by damaging the new growths. These at the time the shrubs are in flower are very green and brittle and a touch will break them off, spoiling the chances of next year's flowering. Use care then and the results will be far better than if the work is gone about in a haphazard way. After the flowers are over a little pruning is of great advantage. Still avoid the young shoots but remove the wood that has flowered thus letting in light and air to the young growth. This will be an aid to ripen it and well-ripened or consolidated wood not only flowers more freely but is less likely to be winter killed than that which is green and leafy in the late fall. Lilacs again often get heavy on top and the rooflike branches keep the light out of the center of the bushes, with the result that new shoots springing from the base weaken and die instead of carrying out their proper functions of renewing the youth and health of the bushes. A little of this kind of work will greatly assist the shrubs and improve the quality of the flowers another season. Applications of liquid manure or even water will also be of great assistance to the growth.

Pyrethrums.

Where the first flowers have been cut, trim up the plants a little and remove the flower stems low down. Give a liberal top dressing of good rich light soil and, should there be any suspicion of dryness at the root, thoroughly soak the border with water or weak liquid manure. This will give the plants a new start; new roots will push out into the surface soil and new flower stems form and, instead of gradually getting weaker all summer, a continual supply of choice, well-colored flowers will be produced. This is a little trouble, but it is amply repaid by the increased number and quality of the flowers.

Poinsettias for Cutting.

Where there are old plants left over after propagating and there is a demand for cut poinsettias, plant these upon a bench where they have at least six feet of head room and, with a minimum of expense and trouble, they will produce a lot of fine useful flowers. Any old plants will do and it is only necessary to cut them hard back so as to get the length in the stem. Throw the house wide open by day and damp the floors and under the benches regularly. Leave plenty of air on at night and the plants will grow hard and sturdy, producing fine, well-developed bracts later. The soil need not be new or especially good, anything that the roots can run in freely, but it should be firmly placed. Water freely when the plants get well under way and commence to feed as soon as the bracts show.

Late Asters.

Although the number of early flowering chrysanthemums has greatly increased of late years yet there is always a good demand for late asters and it is worth while being at a little trouble to get good flowers after the bulk of the aster crop is over. The worst trouble with late asters is keeping them cool and free of insects and where a few plant protectors can be spared from now on and lightly shaded during the hot months, grand flowers will be produced that are sure to find a market. One of the most troublesome summer foes of the aster is a green grub that comes from the white butterfly. These and other insects may be kept in check by bi-weekly sprayings with kerosene emulsion. Some growers have a difficulty in making a proper emulsion with soap and oil and find that the oil readily separates from the soapy liquid, and from experiments we have tried along the lines of using flour instead of soap we are convinced that the idea is a good one. It was first used, we believe, at one of the Canadian experiment stations and the formula is

one gallon of kerosene, 2½ pounds of flour to nine gallons of water. Just mix the kerosene and flour, then add the water by degrees, stirring vigorously and thoroughly mix them. If the plants can be kept growing by these means and the flower buds are thinned later fine stock will be produced. Another lot of seed may be sown now for this purpose and still another batch in July for planting under glass.

Shading Outdoor Flowers.

There is no comparison in the quality of flowers outdoors that are lightly shaded and others left to the burning influence of the July and August sun. In the first place the flowers develop too rapidly; they do not come with good substance in the petals nor do they last, while the sun takes out the color and makes them less attractive. There are, it is true, some flowers that seem to revel in the heat, such as many of the native yellow composites, and the gaillardias stand the sun well, but even with these a little shade is a great advantage. Gladioli never come so good in the open as when a light shade is given, the flowers being larger, finer in color and more of them opening at one time on the spike. A few yards of cheap shading material make a wonderful difference to the quality of the flowers and if carefully folded away when done with lasts for several seasons and is well worth while.

Air for Cattleyas.

The increasing number of these fine orchids grown and sold has led many into their culture that have had no previous experience with them, and as these often have the idea that orchids of any kind are tender subjects needing great care, they are apt to close their houses and watch the plants as carefully as a mother watches her babe. It is a good sign when a young man takes this view, but he is apt to be overcautious. Cattleyas, perhaps more than any other tropical orchids, require air in plenty and all the light possible at all times consistent with keeping the foliage from getting burned from over exposure to the sun. Roller shades or lath blinds are preferable to permanent shading of any kind, but where these are not provided a thin coat of whitewash should be applied. The worst days for the cattleya grower in spring are those when a cold wind is blowing under a very bright sun, as it is impossible to open the ventilators fully without chilling the plants. But on ordinary days from now on the vents can be more or less widely opened, and even if the leaves are blown about by the wind it will do them no harm, but, on the other hand, will invigorate and strengthen them. Constant damping of the floors, the benches and all other available space in the house is necessary to maintain the requisite moisture in the atmosphere, and then, if the temperature ranges anywhere between 75° and 90° by day, the cattleyas will enjoy life. Nothing, in short, can be simpler than keeping the atmosphere right when the weather is warm and bright and there is plenty of water at command. One point in this connection should not be lost sight of. Cattleyas as a general rule do not like overhead watering to any great extent. An occasional thorough washing with the hose in warm weather is excellent. It removes accumulated dust and, on a hot summer day, refreshes the plants and cools the atmosphere around them. But regular spraying as is practiced in some places is not advisable.

Peony Lady Derby.

Grown by Good & Reese Co., Springfield, O.

Notes on Aquatics.

Those who have grown aquatics have had some disappointment to meet; some plants have died, others have grown too strong, others did not flower; some are planted too early, others again are planted too late, though this is seldom the case; aquatics are varied, embracing as they do species and varieties from all quarters of the globe and where all such are attempted to be grown in one small pool in a varied climate as we experience there is no wonder at some vagaries. The only solution is a close study of the numerous varieties to know the conditions that should prevail; then, other things being equal, success is assured.

Nelumbiums have always been more or less disappointing, especially to the amateur and the inexperienced in aquaticulture; they are very impatient of removal and no date can be placed as the proper time to dig or transplant the tubers. In the eastern states the middle or latter part of April is early enough, but in the western states probably a month later, but whatever the time is, certain conditions must prevail as it is not safe to dig and transplant until growth has started and everything is conducive to a rapid growth. When such conditions do not exist the tubers will invariably succumb hence it may be inferred that the latter part of May is a good time to plant nelumbiums. Where tubers cannot be secured young thrifty plants in pans or pots may be relied upon to give satisfactory results.

Tender nymphæas may be planted almost any time where artificial heat is applied to the ponds but where only solar heat is relied upon then one must wait until old Sol gets in his fine work and warms up all ponds, pools, etc., so that it is comfortable to take a bath in. Usually about Memorial day or the first week of June is the right time. Tender nymphæas are always grown in a warm greenhouse and such plants subjected to a low temperature receive a check, the leaves turn yellow and die or at best are poor examples of what they ought to be. Tubers that are showing growth are more satisfactory to plant, as they do not experience such a check, but where plants can be cared for until planting time grow them on and keep them steadily moving and when right conditions prevail plant them in their summer quarters. No plants are more satisfactory to grow than tender nymphæas but it must not be forgotten that they are tropical plants requiring ample space for full development, rich soil, full exposure to the sun and a warm sheltered spot in the garden. They will give large returns for care bestowed upon them and when the hardy nymphæas have almost ceased to bloom they will furnish an abundance of flowers unsurpassed by anything else, and when drouth affects all other decorative plants these may be relied on to furnish an attractive spot, delightful and pleasing.

For decorative purposes the tender nymphæas are unique and far surpass the hardy varieties; the flowers are large, of all shades of color and the night blooming varieties of white, pink, red and crimson are of special value to the florist and should be grown largely for cut flowers. The well-known Victoria Regia and V. Trickeri grow under similar conditions to the tender nymphæas but V. Regia, coming from the tropics, requires a higher temperature than V. Trickeri hence the latter may be depended upon to plant without artificial heat.

WM. TRICKER.

PEONY FIELD AT THE GOOD & REESE CO., SPRINGFIELD, O.

HARDY HERBACEOUS PERENNIALS.

The Herbaceous Border in June.

There is a freshness and beauty about the foliage and flowers in the herbaceous borders in June that is wonderfully attractive and that, unfortunately, is not so marked later on in the hot weather. The great masses of foliage are charming, even if there were no flowers, the great variety in tints of green, and in shape and character making a fine picture. Speaking of foliage there is nothing finer now than the white variegated funkias and the yellow marked varieties are a close second. Perfectly hardy, thriving anywhere and independent of season, these fine subjects should be grown by all, and, in addition to their fine foliage, their flowers are extremely attractive. Acorus gramineus variegatus is another showy variegated plant at its best now, the long sword shaped leaves being deep green heavily variegated with creamy white.

Some growers appear to have an aversion for native plants. Why it would be difficult to say. Growers in Europe are always anxious to secure them, and, strange to say, American growers will buy the native species under high sounding varietal names, yet will not grow the beautiful flowers they have at their doors, so to speak. For instance the native Geranium maculatum has been most beautiful now for several days, and after the flowers are over there will be a magnificent bank of green foliage right through the season. Yet how many growers have it or would care to add it to their collections? Hundreds of dollars have been sent out of this country for various composites such as the rudbeckias when the plants were growing wild by the thousand in our woods and prairies. Look at the lovely little forms of Phlox subulata and P. divaricata. European catalogues contain glowing descriptions of them and American growers have bought them when they may just as well have raised them from seed at home; they would have had healthier, better plants and more flowers than can be produced from the half starved pot grown stock sent over here from Europe.

Happily growers are beginning to see this and American nurserymen are giving more attention to natural methods of propagation. Referring again to the June flowers after this digression the varieties of Pyrethrum roseum demand recognition. Both the double and single forms are splendid for cutting, the colors extremely rich and varied, the stems graceful and long enough to show up well and altogether they are among the finest herbaceous plants in existence. We usually cut them back some after flowering and mulch the soil and they start up again and flower more or less freely all the summer. The irises are very prominent now, especially I. Germanica and I. Sibirica. The varieties of the former are endless, all gorgeously beautiful, while the deep blue of the Siberian iris is very noticeable. I. cuprea is pretty and distinct and worthy of more extended culture.

No herbaceous garden is complete without a few at least of the columbines or aquilegias. There are numberless varieties, both of A. cœrulea and A. chrysantha that can be raised from seed, and there is no better way of working up a good stock. We could not begin to describe the colors, but all are beautiful and every one worthy a place in the best collection. The thalictrums are hardly at their best yet, but we call attention to them on account of their splendid foliage. They delight in a moist sandy soil and just now the foliage is magnificent and will be followed later by the elegant feathery flowers that alone would make the plants worth growing. The pretty little T. adiantifolia, as its name implies, has foliage like a maidenhair fern and is a pretty, dwarf growing sort.

The spiderworts or tradescantias form another instance of native plants being neglected. There are several colors in the free growing, hardy kinds and they make a very fine feature on the herbaceous border, yet only too rarely are they seen in anything approaching good condition. These too delight in sandy soil and the richer and moister it is in reason the finer the growth will be. The day lilies (hemerocallis) are among the showiest of June flowers, H. Thunbergii being one of the brightest in color, though not nearly so large as some others. H. flava, H. fulva, H. Kwanso and H. aurantiaca major are four splendid herbaceous plants, though so common, and none of them can be left out. As an edging plant for June and later the pretty little Veronica prostrata (a plant of many names) should not be omitted. Its bright blue color cannot be excelled by any other dwarf plant flowering now, and it is one of the most desirable species in this extensive genus. These few notes, prompted by a look around the borders, are by no means complete, but they may help to show what a wealth of beautiful things we have at our command if only we will use them. R.

Notes on Narcissi.

Amongst the numerous bulbous plants that can be grown successfully in the garden in spring, or forced in the greenhouses in winter, the narcissi are certainly amongst the most important. When we consider the remarkable beauty of the many forms of narcissi in cultivation, it seems surprising that it did not stand higher in public appreciation prior to the daffodil conference held under the auspices of the Royal Horticultural Society (Eng.) in 1884. It is true that at that time, and since, a large number of valuable and choice varieties were, and have been, introduced to cultivation; but that famous conference marked the era of daffodil popularity and there has been no abatement since.

Amongst the long yellow trumpets with yellow perianths Obvallaris, Golden Spur, and Henry Irving are the first to flower with us and were in full bloom on April 26. Henry Irving has a remarkably handsome trumpet, and spreading, wheel-shaped perianth. Emperor is one of the finest in the yellow long trumpet section. The perianth is light yellow, and the trumpet deep yellow and very large. This is one of the most useful forms of narcissus and was in full flower on May 7.

Amongst the bicolor trumpets with white to very pale primrose perianth, Princeps is the first to bloom and was in full flower on May 1. The perianth is sulphur white, and it seems to be a remarkably good keeper from year to year. Victoria is a handsome form with large bold flowers, and perianth showy, spreading, creamy white. Horsfieldii was in full flower on May 7. We regard this as one of the best and most useful of the bicolors, that is, amongst those not high priced. The perianth is almost white and trumpet deep yellow, and it shows much refinement and beauty. Empress shows much similarity to Horsfieldii and flowers two to three days later when growing side by side. The perianth segments appear to us to be lightly marked with primrose yellow over the ground of cream white. Dean Herbert again shows a strong resemblance to Empress, differing somewhat in the coloring of the trumpet, and flowers about the same time. Apricot is an exceedingly beautiful bicolor and was in full flower May 15. The handsome straight trumpet, light yellow and beautifully crimped at the top, with handsome white perianth and a marked perceptible fragrance render it a charming form. J. B. M. Camm is a form of much distinctive beauty. The perianth is pure white and the flowers are supported by good bold foliage.

In the white trumpet section, Albicans is the first to bloom and was in full flower on May 1. The trumpet is pale primrose yellow, approaching creamy white, long and narrow and recurved at brim. Sir Stafford Northcote was in full bloom on May 7. The perianth is distinctly white and the trumpet narrow, and pale creamy white or approaching pale sulphur. W. P. Milner has perianth and trumpet pale sulphur white, with brim of trumpet recurved, and is a flower of refined beauty and flowers at the same time as Sir Stafford Northcote.

In the medium trumpet section there are many beautiful and lovely forms, and of the incomparabilis, that is, those distinguished by yellow cup or trumpet, and white or pale yellow perianth, Sir Watkin is about the first to bloom and was in full flower on May 7. The brim of the trumpet is spreading and lightly tinged with orange. It is one of the handsomest incomparabilis forms we have. Beauty is a highly chaste form. The perianth is a delicate light sulphur yellow, with a spreading yellow cup margined with deep orange. It was in full flower on May 11. Autocrat is a pleasing form with a light yellow perianth and a handsome broad yellow cup, and was in full flower on May 13. Mabel Cowan is distinguished by a white perianth, and a beautiful, yellow, broad cup, margined with deep orange, and was in full bloom on May 15. Commander has a most distinctive perianth of a pale sulphur yellow color and a prominent large yellow cup stained deep orange, and was in full bloom on May 17.

Amongst the medium trumpets with the white or whitish cups, which are known as Leedsii, Mrs. Langtry is perhaps one of the best we have. The

perianth is distinctly white, and the cup, which opens with a light tinge of yellow, turns to a pure white. It was in full bloom on May 8. Gem is a most attractive form. The perianth is pure white and the cup is a pale sulphur white and beautifully crimped at the margin. It was in full bloom on May 14.

Amongst the Barri section of the medium trumpets, perhaps Barri Conspicuus is the best known, and for general cultivation it is one of the best. The prominent, large, spreading, light yellow perianth, and the cup conspicuously stained with deep orange carmine render it very attractive and it was in full flower on May 7. Flora Wilson has a white perianth, and the cup is deeply marked with orange carmine and is a most attractive form. It was in full flower on May 13. Maurice Vilmorin has a broad distinctive primrose white perianth and the cup is stained with deep orange red. It flowers at the same time as Flora Wilson.

The ever popular poet's narcissus with its pleasing fragrance and the beautifully marked short cup, stained with cinnabar-red is liked by everybody. Ornatus flowers earlier than the type, has much larger flowers and was in full bloom on May 12. King Edward the Seventh is a beautiful poeticus form with a handsome large flower, and is as much an improvement over Ornatus as Ornatus is over the type. It flowers about the same time as Ornatus.

JOHN DUNBAR.

Pasadena Gardeners.

The accompanying picture shows a number of members of the Pasadena Gardeners' Association, the photograph being taken while they were on a visit to J. W. Wolfskill's greenhouses at Los Angeles to see the carnations. These are grown here in great variety under glass as well as, or perhaps better, than anywhere else in southern California.

The First Break in Chrysanthemums.

Many of the plants which were benched last month are now making premature buds, or what is termed the first break. With these buds appear several lateral growths, one or more of which must be retained. The question is often asked which should be saved? As a rule the growth nearest the bud is weaker than the second and third, and as these early buds will not make blooms they should be removed, taking with it the first growth.

Those preferring one bloom to the plant should save the strongest and those desiring two blooms the two strongest. The growths will continue until time for the early or crown bud to appear, which, with most of the popular sorts, occurs about six weeks later. There are exceptions to these rules; some kinds will continue forming buds every two weeks, while others continue their growth until the end of August before this condition again occurs. Some of the early sorts will show buds in July, and in a few cases may be retained. Those interested in this subject will find in our last notes, page 956 of THE FLORIST, several early varieties are mentioned giving the dates when it is safe to save buds.

ELMER D. SMITH.

MALDEN, MASS.—Kaulback & Son recently had some fine wedding decorations.

To Be Done Now.

IN THE GREENHOUSES.

Look out for the first attacks of thrips in cyclamens and take measures to destroy the insects at once.

Select plants of regal and show pelargoniums that have not been highly fed for propagating from.

Red spider is one of the worst enemies to tuberoses. Look out for it and spray frequently to destroy it.

Keep the atmosphere moist in the plant houses by regularly and frequently dampening all stages, floors and benches.

Always take the second or third shoots when stopping chrysanthemums; never the first.

It is impossible to keep the houses or frames in which liliums of the lancifolium type are grown too cool now.

Repot young geraniums for winter flowering before they get hard in the pots.

PASADENA GARDENERS AT WOLFSKILL'S, LOS ANGELES, CALIF.

Watch the shading carefully. The sun is so powerful now, especially after a few dull days, that a great deal of mischief can be done to tender foliage by a few minutes' neglect.

Continue the propagation of poinsettias and pot the early rooted cuttings.

Do not allow young plants of Begonia semperflorens or B. Gloire de Lorraine to flower, as it is weakening to them without any corresponding benefit.

OUTDOORS.

Prune the shrubby spireas after flowering, but not with the shears. Remove the old wood and allow the young to develop naturally.

Allow no summer weeds to go to seed. Where there are no crops needing cultivation, plow or hoe the weeds down.

Attend to the pinching of the carnations in the field and make good any rows where plants have missed.

Top the grapevine shoots to allow the basal eyes, to which they will be cut back later, to fill out.

Never allow sweet peas to go to seed unless seed saving is intended, as this will check their flowering.

Clean up the grass edges around the shrubbery beds and borders, picking out any grass roots that may have run out in the soil.

Place some hard substance, such as brick or tile, under all pot plants plunged outside to prevent rooting through.

Where there is much manure that cannot be used run a team over it to pack it down solid and prevent heating and loss of fertility.

A good mulch of semi-decayed manure is a great help to sweet peas in hot, dry weather.

Remove a little of the foliage of oriental poppies and other strong growing herbaceous plants that may be overrunning weaker species.

Herbaceous Calceolarias.

The requirements of these plants are simple, and anyone possessing a greenhouse from which frost can be excluded, can cultivate them with success. We sow the seeds about the middle or end of June, in pans, in a compost of equal parts loam and leaf-mould, with coarse silver sand, the mixture being sifted through a fine sieve, says the Gardeners' Chronicle. The soil in the pans should be well watered before sowing the seed. The seeds should be sown thinly, covering them very lightly with soil, and placing the seed-pans in a cold frame. A good plan is to place them on inverted flower-pots standing in saucers of water. The water in the saucers will keep the surroundings moist, which is congenial to the germination of the seeds. In addition it keeps slugs from the plants. If the frame is placed on the north side of a wall, so that direct sunshine cannot reach the seedlings, no shading will be necessary, and the plants will, in consequence, be much stronger. In the course of a few weeks the seedlings will be large enough to be transplanted into pans, which should be filled with the same kind of compost as before. As soon as they are large enough they should be potted singly into small pots and returned to a cold frame having a floor of ashes. Soot should be sprinkled about to keep away slugs.

Abundant ventilation should be afforded at all times; indeed, the lights should only be used to protect the plants from rain. As autumn advances the plants make rapid growth and require larger pots. They should be grown in the cold frame until frosts appear, when they should be accommodated in a frost-proof structure. They must be kept cool and placed as close to the glass as possible. Some time in January the final shift into pots having a diameter of 8½ or 9½ inches should be given. The compost we use at this stage consists of two parts loam and one part leaf-mould, with dried cow manure and sand added. Grown in this manner, we have never failed to have a fine show of calceolarias each spring for several years. Some of our plants measure three feet through. Aphis sometimes attacks the plants, also a small yellow thrips. These pests can be kept in check by an occasional fumigating with a nicotine compound.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50. Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:
A. F. FAULKNER, 1133 Broadway, New York.
ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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PRICES of greenhouse glass in Chicago hold rather firm; 90 and 35 per cent are the discounts on double strength glass, and 90 and 30 on single strength.

GREENHOUSE piping is now lower than it has been for years, with a discount at Chicago of 77 per cent; this for immediate shipment, as prices are expected to be firmer and higher.

GLASS can be bought now at about $2 per box in quantity lots.

ACCORDING to G. W. Reburn of Vaughan's Seed Store a large number of St. Louis florists are going to the S. A. F. convention at Cincinnati, while further west almost every florist says he will be there.

Greenhouse Glass Drops in Tariff Schedule

Amid the clash of interests in the United States senate pertaining to tariff rates, the one large item of expenditure in all greenhouse construction, window glass, is affected. The Aldrich committee refers the clause back with a much lower rate than existed under the present tariff. Senator Elihu Root of New York threw his powerful influence in favor of this action. BENJAMIN HAMMOND.

Secretary Tariff Committee, S. A. F.

American Rose Society.

PRIZE OF $100 FOR OUTDOOR ROSES.

Several persons have advised that the last schedule of premiums be adhered to by the American Rose Society for the next rose exhibition to be held in New York in March, 1910. President Poehlmann has requested the committee which drew the last schedule to act, and, if in its judgment it seems best, that the same be adopted and published without delay. The committee is composed of the following: Robt. Simpson, Alex. Montgomery, John N. May, Frank R. Pierson and Benjamin Hammond. Life certificates have been issued to Mrs. Gertrude M. Hubbard, who, by unanimous vote at the Buffalo meeting, was elected the first honorary life member, and to Peter Crowe of Utica. Treasurer Harry O. May reports that with all bills paid he has a net cash balance on hand.

There is one thing which surely should be done if the American Rose Society is to grow among amateurs, and that is to issue a special quarterly, something whereby the interest in the association would be aroused in those who do not see our excellent trade papers. Two propositions have been submitted—one from the Gardeners' Chronicle, the other from the Garden Magazine. A general meeting of the society will be called during the session of the S. A. F. in Cincinnati. His honor, the mayor of Detroit, Philip Breitmeyer, offers a cash prize of $100 for the best collection of hardy outdoor roses, in pots or tubs, to be exhibited at the next annual exhibition. The gentlemen who promised contributions last November toward the prize fund of the society have loyally redeemed their promises then made.

BENJAMIN HAMMOND, Sec'y.
Fishkill-on-Hudson, N. Y.

Profit From Greenhouses.

ED. AMERICAN FLORIST:—

Please let me know what percentage of profit a grower should get when cut flowers and plants are grown for market under glass. We have three houses 21x35 feet and three 21x115. Two are to be planted to roses and one to carnations. W. B.

We have pointed out again and again that it is impossible to state the percentage of profit that a grower can make in a case of this kind. Everything depends upon the management of the place. The skill of the grower, the class of market that is found for the product, expense of obtaining soil, water and other requisites have all to be taken into consideration and even with the best of management and the finest cultural skill things will sometimes go wrong and ruin a crop, the market will fail or some other circumstance occur to upset the best calculations. The man who looks for a fixed percentage of profit out of the greenhouse business is manifestly so inexperienced that the probability is he will make no profit at all. But this is not the fault of the greenhouse business.

Packing Outdoor Flowers.

ED. AMERICAN FLORIST:—

Would you kindly tell me the proper way to cut, treat and pack flowers for shipment? How many days could roses grown outside, mostly hybrid teas, travel with safety and how many should be packed in one box? If you will go into this subject, telling how long flowers should be cooled, etc., the best way to pack such things as lilacs, sweet peas, peonies, tulips and asters, I feel sure not only I but many of your readers will be sincerely grateful.

British Columbia. R.

In answer to "R." our experience with outdoor grown roses is very limited but we do know that greenhouse roses if cut tight and placed in water and cooled off for 12 hours can be packed and shipped on a three days' journey and arrive in good condition. Lilacs can be left in water the same length of time and will ship 12 hours providing that they are well iced. Peonies, tulips and asters ship equally as well as roses; sweet peas do not carry well and only short distance shipments are satisfactory.

In regard to the size of the box for roses, a box 30 or 36 inches long (according to the length of the stem of the roses), 12 inches wide and six inches deep will hold 100. They should be made fast in the center with a cleat and then use cleats from six to eight inches apart in the center of the box to hold the ice and sufficient room should be left at the top to let the cold air circulate among the roses.

J. B. DEMAUD CO.

Plant Notes.

One who should know says that the true Salvia Fireball (Pfitzer's) is far better than Zurich.

German irises are legion, but there are few more attractive varieties than Prince Leopold. The tint of purple rose in the standards is almost indescribable while the color of the falls is exquisite.

European specialists are working on new varieties of Hydrangea hortensis. One especially, a white form named Mme. E. Mouillere, is highly spoken of and has received awards from various horticultural bodies.

Two good white tufted pansies are Virgin White, a pure white rayless form having flowers on tall stalks, rather loose growing, and Marchioness, a fall flowering, very hardy variety and with flowers of a creamy white.

There is a dwarf form of Iris Sibirica—or else the conditions have made

it dwarf—growing in Jackson park, Chicago, that as a border plant is far superior to the tall form. It only grows about 16-18 inches high and the deep blue of the flowers is remarkably beautiful.

Stuart Low & Co.

CHANGES IN OLD ESTABLISHED FIRM.

The old and world-renowned firm of Hugh Low & Co., Bush Hill Park, Enfield, England, has been voluntarily dissolved and the nurseries, the greater part of the stock and practically the entire staff have been taken over by Stuart Henry Low, who will run the business under the style of Stuart Low & Co., at the old address. The history of this firm, under whom so many of the finest British and other gardeners and horticulturists have graduated, goes back into the dim past.

In the early part of the last century it was already a power in the horticultural world under the late Hugh Low, whose enterprise brought to notice many varieties of Mexican and Californian coniferæ, New Holland plants, Cape heaths, camellias, etc. When the reins were taken by the late Stuart Henry Low, orchids were a specialty and no corner of the world was safe from his collectors including his brother, Sir Hugh Low, Blunt, Smith, Boxall, Tucker, Bruckmuller, Lehmann, White and Curnow all of whom sent home large importations of what are now the best known occupants of our orchid houses. During his regime the glass at Clapton was increased fourfold. It was he who started the present Bush Hill Park nurseries with his son, Stuart Henry Low, in charge, assisted by his younger brother, Edward V. Low who is very well known in the United States and who together have built up a gigantic business. The firm has of late gone into American carnations extensively and is keeping well abreast of all the recent novelties. Our best wishes are with Mr. Low, who, we are convinced, will well maintain the integrity and fame of his forbears in the business.

Important Foriegn Exhibition.

July 2.—National rose show, National Rose Society, Royal Botanic Gardens, Regents Park, London, N. W., Eng. E. Mawley, secretary, Rosebank, Berkhamsted, Herts, Eng.

July 6-7.—Holland House show, Royal Horticultural Society, London, Eng. Rev. W. Wilks, secretary, Vincent square, Westminster, London, S. W., Eng.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scotland.

Meetings Next Week.

Albany, N. Y., July 1, 8 p. m.—Albany Florists' Club, W. C. King's, 24-26 Steuben street.

Baltimore, Md., June 28, 8 p. m.—Gardeners' Club of Baltimore, Florists' Exchange hall, St. Paul and Franklin streets.

Chicago, July 1, 8 p. m.—Chicago Florists' Club, Union Restaurant, 111 Randolph street.

Cleveland, O., June 28, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

Lake Forest, Ill., June 30, 8 p. m.—The Horticultural Society of Lake Forest, Council Chamber, City hall.

Lake Geneva, Wis., July 3, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Milwaukee, Wis., July 1, 8 p. m.—Milwaukee Florists' Club, Quiet House, corner Broadway and Mason street.

San Francisco, Calif., July 3.—Pacific Coast Horticultural Society.

Utica, N. Y., July 1, 8 p. m.—Utica Florists' Club, Hotel Martin.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, inclose 10 cents extra to cover postage, etc

Situation Wanted—As salesman, designer and decorator; salary considered if position is good
Key 841 care American Florist

Situation Wanted—Gardener; aged 33; married; 16 years practical experience in all branches of horticulture both in England and Scotland
FOSTER, 228 South Alden St. Philadelphia, Pa.

Situation Wanted—Near Phila., as manager or working foreman on commercial or private place; 10 years experience in growing carnations, 'mums, vegetables and bedding plants; age 28; married; best of references; state particulars.
Key 828, care American Florist.

Situation Wanted—Gardener and florist, single 28 years of age; 14 years' experience in private and commercial places; grower and propagator of pot and bedding plants, cut flowers, carnations, roses, gardenias, forcing vegetables landscaping; wish position July 1; private preferred; can furnish German and American references.
Key 843, care American Florist.

Help Wanted—Competent carnation grower to take section under foreman.
G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

Help Wanted—First-class designer, decorator and storeman for retail store. Address, giving particulars, salary, etc.,
Key 844, care American Florist.

Help Wanted—A man for general greenhouse work; must have experience in pot plants, 'mums and bedding stock. Address
Key 840, care American Florist

Help Wanted—Experienced seedsman especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist

Help Wanted—Reliable traveling salesman to work market garden trade, also to work in store; must have experience on the road also a thorough knowledge of the seed business; good salary to right party; best of references required.
J. F. NOLL & CO.,
115 Mulberry St., Newark, N. J.

Wanted—A good capable greenhouse man with a little money and a desire to build up a business will find Milford an ideal point to establish a business and find ready help; write
EUGENE L'HOTE, Milford, Ill.

For Sale—Greenhouse property; 10,000 feet of glass; ideal location; write for particulars to
Box 114 Lansing, Mich.

For Sale—Greenhouse in Salida, Colorado, 6000 feet of glass, good trade, no competition; price low; address owner.
J. H. FREEMAN, Salida, Colo.

For Sale—A valuable greenhouse business in a good town; no competition; can sell more than you can grow at good prices; ill health.
DWIGHT GREENHOUSES Dwight Ill.

For Sale—15,000 feet of glass 20 acres of land; well located, well stocked; good reasons for selling; Eastern Ohio; wholesale; carnations a specialty; a bargain if sold at once. Address
Key 842 care American Florist.

For Sale—$3000 on easy terms will buy a desirable florist business in Tennessee; about two acres of ground, four greenhouses, barn, outbuildings and a nice 3 room cottage. Address
Key 838 care American Florist.

For Sale—Greenhouse plant of about 19,000 feet of glass; steam heat; cheap coal; all stock goes with the plant; six-room cottage; about one acre of ground; on car line; horse, wagons, tools, designs and all go with plant; a rare chance for a good florist with $5,000 cash; balance on easy terms; reason for selling, poor health, not able to look after the business. Address
A. D. JONES Colorado Springs, Colo.

For Sale—Two firebox return flue pattern hot water boilers used four years; will heat 6,000 ft. 4-in. pipe. Price $215.00 each. One Kroeschell pattern hot water boiler, used four years; will heat 4500 ft. 4 in. pipe. Price $190.00; complete with grate bars, smoke box and ashpit doors. All in good condition. 5000 ft. 4-in cast iron pipe at ten cents per foot. 2000 ft 5-in. cast iron pipe at twelve cents per foot. Three No. 2 Morehead steam traps in good working order at $45.00 each. One high pressure steam pump 3-in suction, 2½-in. discharge; in running condition; price $50.00. Sixty Evans ventilator arms, complete at twenty cents each. Address GEORGE REINBERG, 51 Wabash Ave., Chicago.

WANTED --- At Once

A good grower of roses, carnations, 'mums and general line of pot plants; must be able to produce results; permanent position and good pay.

——Address——

Key 839, care American Florist.

Make Your Want Known

If you want to get rid of it,
A want advertisement in the

AMERICAN FLORIST

will do what you want. Try it now. Back of every ad is a real want, so it pays to answer them. : : : : :

THE AMERICAN FLORIST COMPANY'S

Trade Directory

CONTAINS the usual fully corrected and revised lists of Florists, Seedsmen, Nurserymen, Catalogue Firms, Horticulturists, Landscape Architects, Parks, Cemeteries, Botanical Gardens, Horticultural Societies and Horticultural Supply Concerns of the United States and Canada.

Price $3.00 Postpaid.

AMERICAN FLORIST COMPANY,

324 Dearborn Street, CHICAGO.

Peonies We were never in better condition to fill your wants. The supply is large and the quality fine.

American Beauties In large supply: fine quality.

Killarney Highly colored, long stems, perfect buds. None better to be had in this market.

Carnations In large supply. Fancy Valley always on hand.

Complete Stock of Florists', Growers' and Nurserymen's Supplies.

Send for our Weekly Price List unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago.**

Cincinnati.

THE GLUT OVER.

Trade the past week has been very satisfactory, the glut of carnations and peonies having spent its force, and the wholesaler realized something like living prices for the grower. A few days of delightfully cool weather had a tendency to improve the quality of roses and carnations. Shasta daisies and sweet peas are to be had in quantity, and the quality is first class, with a good demand. Lily of the valley and Lilium longiflorum are exceptionally fine for this season of the year. There seems to be an unlimited supply of feverfew which is not moving at all. Green goods of all kinds are to be had in quantity, with a good call.

NOTES.

Will Murphy's mail was extremely heavy Monday morning, the bulk of which called for exhibition space. Will showed the writer what space has been allowed already and from present indications the exhibition next August is going to be a grand affair.

Every one is talking vacation, and the first one to take advantage is Miss Cora Pherson, bookkeeper at Wm. Murphy's. She leaves this week for the bluegrass regions of Kentucky to spend a month of deserved rest with relatives.

C. E. Critchell has been located at Spotlesstown, one of the numerous camps on the Little Miami river. No wonder we missed him for quite a period. He reports a good time and looks the part.

This week we have the Turners from all sections of the country with us, and the city is in gala attire. At the present writing we have not noticed any florists among the 25,000 strangers in town.

Frank Benson, erstwhile of Newport, Ky., but at present located in Indianapolis, was a caller Sunday. Frank says business is first rate with him and that Indianapolis is one good flower town.

Albert McCullough, president of the J. M. McCullough Sons Co., left Monday night for Niagara Falls to attend the seedsmen's convention.

B. Nanz of Owensboro, Ky., stopped off between trains here, his destination being Cleveland. S.

Cleveland.

PEONY WEEK.

The past week has been peony week an immense quantity of this beautiful flower having been sold for commencements and wedding decorations. Red and dark and light pink were the most numerous. White, on account of being spotted by rain, is rather scarce, and besides white is nearly done in outside stock. Cold storage white is of good quality, but a little higher priced. Richmond roses were used very extensively the past week, and the quality was good. Roses of all kinds are getting smaller and poorer in grade. Many growers are now throwing out the old to make room for the new, and the result is that the crop is not quite so heavy. Carnations are still overplentiful and go at very low prices, several retailers having sales at which good carnations sold for 10 and 12 cents per dozen. Dagger ferns are a little more plentiful and of a better quality. Lily of the valley has only a limited call. All greens are selling well and the supply plentiful.

NOTES.

Wilhelmy Bros. have a new horse which they bought recently, which is inclined to be rather frisky. Saturday morning while standing in front of the Florists' Exchange he became frightened at something and ran away, going down Huron road past the crowded Sheriff street market house to Ontario street up to the square before he was stopped. No damage was done to either horse or wagon, which is remarkable considering the crowd.

The trouble at the Storrs-Harrison Co.'s nursery seems to be about over It is said that Italians will be put on in place of the striking Hungarians.

The Ehrbar Floral Co., 3033 Lorain avenue, had a carnation sale on Saturday. Carnations sold at 10 cents per dozen.

C. B. Wilhelmy, 3610 West Twenty-fifth street, reports good transient trade, on account of his location, being directly opposite Riverside cemetery.

Geo. W. Smith of the Cleveland Florists' Exchange was presented with a fine baby boy Tuesday. Both mother and baby are doing well.

Mrs. John Leuschner, wife of the Lakewood nurseryman, left for a visit to friends in the old country this week.

Merkle & Son, Mentor, have a large crop of Easter lilies on at present, and of good quality.

G. W. Mercer closes at noon on Sundays. A good business is reported. B.

Fancy and Dagger FERNS $1.25 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales.....$1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

HENRY M. ROBINSON & CO.
15 Province St. and 9 Chapman Place, BOSTON, MASS.
WHOLESALE COMMISSION FLORISTS
Hardy Cut Evergreens and Florists' Supplies
We have the stock and can fill all orders, large or small.
New Crop Fancy and Dagger Ferns, $2.00 per 1000.
FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

New Crop Hardy Cut Ferns

FANCY and DAGGER.
75c per 1000.
Laurel Roping, Fine quality, 5c per yard.
Bouquet Green, in bulk or roping 7c per lb 5c per yd
Sphagnum Moss, fine qualty, 60c per bbl
Florists' Supplies of all kinds.
Cash with all orders.
All orders promptly attened to
THOMAS COLLINS,
Box 241, HINSDALE, MASS.

E. A. Beaven
LOG MOSSES
Natural and Perpetuated.
Special prices for quantity lots for future delivery.
EVERGREEN, ALABAMA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns. Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK.

New Crop Ferns
FANCY and DAGGER ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
Evergreen, Alabama.

Ferns NEW CROP. Fresh from the patch
Fancy and Dagger Ferns, $1.00 per 1000.
Discount on large orders. If you want the cream of the season, send orders now. Sixteen years' experience. Send cash with first order.
J. N. PRITCHARD, Elk Park, N. C.

Summer Roses

We make a specialty of **Kaiserin, Pres. Carnot, Killarney, Richmond, Perles** and **New Beauties** during the hot weather, and have built cold storage facilities to handle **Summer Roses** alone.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00
24 inch	2 00
18 inch	1 50
12 inch	1 00
Shorter stems	50 to 75

KAISERIN, KILLARNEY, RICHMOND

	Per 100
Long and select	$8 00
Good average lengths	$6 00 to 7 00
Medium lengths	5 00
Short lengths	3 00

CARNOT, BRIDE and PERLE.

Long and select	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$ 2 00 to 3 00
Short Roses in not less than 500 lots, per 1000	$15 00

CARNATIONS.

	Per 100
Fancy, long, Red O. P. Bassett	$2 00
White and Winsor	2 00
Enchantress, fancy	2 00

PEONIES, Pink and white, per 100	$ 2 00 to $4 00
EASTER LILIES, per 100, $6 00; per doz	1 00
LILY OF THE VALLEY, per 100	3 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, New Crop, per 1000	2 00

Bassett & Washburn,

Store and Office: 76 Wabash Ave. **CHICAGO.** **Greenhouses: HINSDALE, ILLINOIS.**

Chicago Notes.

OTHER CHICAGO NOTES ON PAGE 1130.

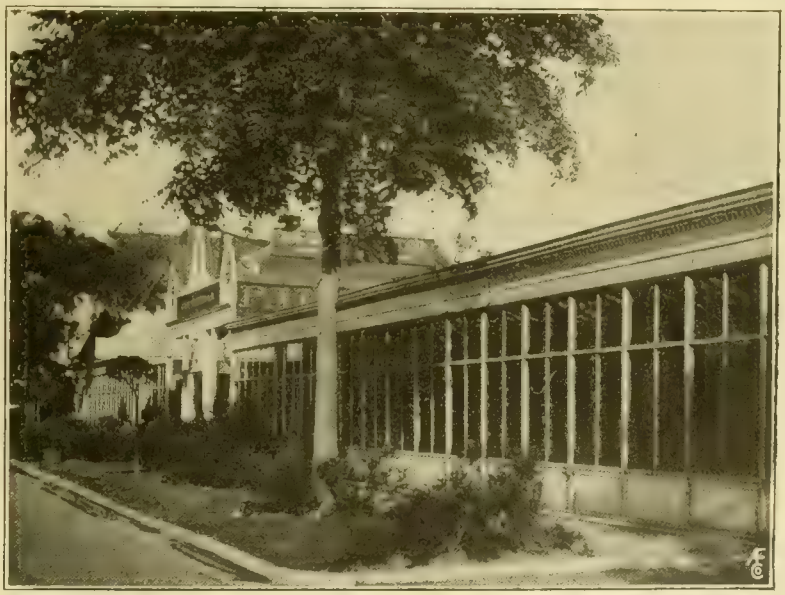
Bob Northam returned to his labors with Geo. Reinberg on Wednesday after a two weeks' fishing trip at Iron River. Bob claims that he caught lots of brook trout and intended shipping a mess to his friends on the market, but was prevented by the state laws.

The Geo. Wittbold Co. is pushing the nursery end of its business and, as a help along this line, has planted the space in front of the Buckingham place store with shrubs. As will be seen in the accompanying illustration, it makes quite an adddition and should prove an advertisement of value.

J. H. Prost, city forester, Room 51, 200 Randolph street, has issued Pamphlet No. 1, giving information regarding the tree planting movement in the city and a copy of the ordinance. Every city florist should get a copy as these pamphlets mean a good deal to them in a business way.

John Zech, who has been under the weather for a week, is recuperating and feeling more like his old self again.

Wietor Bros. have about finished planting their roses.



THE GEO. WITTBOLD CO'S RETAIL STORE, CHICAGO.

Showing Shrub Plantings in Front.

Pittsburg.

TRADE FAIR.

Business still continued fair during the past week but the last few hot days has put somewhat of a crimp in it. Stock is coming in very unsatisfactory. Carnations are very poor. Asters have made their appearance in this market, also some very fine outdoor peas.

NOTES.

The matrimonial fever still continues to rage among the wholesalers. The latest surprise was Karl Klink of the McCallum Co. and Miss Clara Goodman of Rochester, N. Y., and from all indications this does not end it as there are still other cases in docket.

Geo. McWilliams, Natrona, is making preparations to enlarge his plant.

Chris Henueses has his trunk packed and is ready to leave for Atlantic City.

Harry Hamm, Homewood, is remodeling the front of his store.

Henry Wiggins, Butler street, is now connected with the police force.

W. Q. Potler of the McCallum Co. leaves Saturday for the north.

Wm. Cormack, Irving, reports business a little slow.

Visitors: M. Shattls of Lyon & Co., New York; S. Green of H. Bayersdorfer Co.; Cohen, Wertheimer Bros., New York; — Sterns, Sefton Bros. Co.; Geo. F. Huscroft, Steubenville, Ohio; Mrs. Robens, Sewickley.

Tarrytown, N. Y.

JUNE FLOWER SHOW.

Strawberries as large as hens' eggs, roses of all colors and sizes, hardy flowers of every description, and special exhibits of palms, ferns and herbaceous flowers were the attractions offered at the June exhibition of the Tarrytown Horticultural Society, held in the young men's lyceum on the afternoon and evening of June 15. Hundreds of visitors expressed themselves as delighted at the beautiful sight that greeted their eyes. This exhibition, which is one of the finest of its kind, was made possible through the interest taken in it by the wealthy women from Yonkers to Ossining. One of the greatest attractions, and the class that was hardest to judge, was the work of school children, and so well had each contestant arranged his or her exhibit, the judges were puzzled as to what school children should get prizes. The following is a summary of the exhibits and the prize winners:

Collection cut hardy perennials:—Mrs. Henry Siegel, (T. Aitchison, gardener) first; Miss Blanche Potter, (George Wittlinger, gardener) second.

Three quarts of strawberries, three varieties:—Joseph Eastman (Robert Angus, gardener) first; Mrs. J. B. Trevor, (H. Nichols, gardener) second.

Two quarts of strawberries, two varieties:—Joseph Eastman, first.

One quart of strawberries, any one variety. Joseph Eastman, first; Mrs. Isaac N. Seligman, (John Brunger, gardener) second.

Vase 25 blooms, hybrid perpetual roses, assorted:—Gen. E. A. McAlpin, (John Woodcock, gardener).

Collection of outdoor roses:—Gen. E. A. McAlpin, first; Alfred L. Squires, certificate of merit.

Six varieties of outdoor roses, six of each:— Mrs. Isaac N. Seligman, first; Mrs. J. B. Trevor, second.

Three varieties of outdoor roses:—Gen. E. A. McAlpin, first; Mrs. Isaac N. Seligman, second.

Twelve outdoor roses, any one variety.—Miss Blanche Potter, first; E. H. Weatherbee, (F. Milne, gardener) second.

Best vase roses:—Mrs. F. A. Constable, first; Mrs. Max E. Sands, (Thomas Lee, gardener) second.

Display outdoor climbing roses:—Mrs. J. B. Trevor, first; Mrs. Isaac N. Seligman, second.

Twelve roses, Frau Karl Druschki:—Miss Blanche Potter, first; Mrs. Henry Siegel, second.

Collection sweet peas:—Mrs. J. B. Trevor, first; Miss Blanche Potter, second.

Display of antirrhinums:—Mrs. Isaac N. Seligman, first.

Vase of roses, (amateurs only):—Richard Meany, first.

Bouquet of wild flowers, (competition open to school children only):—Margaret Gibson, first; Pauline Hughes, second.

For the most artistically arranged vase of flowers:—Mrs. F. A. Constable, first; Mrs. J. B. Trevor, second.

Twenty-four blooms of hybrid tea roses:—Gen. E. A. McAlpin, first.

Collection of wild flowers, each variety to have the common name attached, and the botanical name if possible:—Miss Annie Lee, first; Miss Caroline Rosenstein, second; Master Trigfa Hoff, third; Master Harold Neubrand, fourth.

Collection of flowers cut from hardy shrubs:—Mrs. E. H. Weatherbee, first; Dr. Carroll Dunham, (Alex. Maitland, gardener) second.

The F. R. Pierson Co., received a certificate of merit for a display of palms, ferns, and herbaceous flowers; also a certificate of merit for a vase of Gladiolus America, which was one of the most beautiful exhibits of the show.

Scott Bros., Elmsford, received honorable mention for their display of peonies.

The judges were Thomas Cockburn, of Ossining; William Cowan, of Mamaroneck, and James Dexter, of White Plains. Great interest was taken in Class 8, which was for J. H. Troy's silver cup for the best collection of outdoor roses. The winner must get first two years before he can own the cup, and Gen. McAlpin will have to look after his laurels next year, for he is going to have strong competition.

READING, PA.—The building at 636 Penn street, known as the Penn Flower Shop, is being torn down. It is one of the oldest landmarks of the town.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

— CONSIGNMENTS SOLICITED. —

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Wholesale Flower Markets

ST LOUIS, June 23.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Bride, Bridesmaid	2 00@ 4 00
" Chatenay	2 00@ 4 00
" Ivory	2 00@ 4 00
" Kaiserin	2 00@ 5 00
" Killarney	2 00@ 6 00
" Mrs. Potter Palmer	2 00@ 4 00
" Rhea Reid	4 00@ 6 00
" Richmond	2 00@ 6 00
Carnations, fancy	1 50@ 2 00
" common	50@ 1 00
Lily of the Valley	2 00@ 3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, dagger, per 1000	2 00
" fancy, per 1000	3 00
Smilax	12 50

CINCINNATI, June 23.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch	50c
Boxwood, per lb.	15c
Ferns, Eastern, per 1000	$1 50
Galax, Green and Bronze	1 00
Leucothoe, per 100	50
" per 1000	4 50
Smilax	1250@15 00

BUFFALO, June 23.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	3 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	1 00@ 2 50
Callas	8 00@10 00
Cattleyas	60 00@75 00
Daisies	75@ 1 50
Lilac	25 00@50 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Mignonette	1 00@ 2 00
Peonies	2 00@ 4 00
Sweet Peas	50@ 75
Asp. Plumosus strings, each	50@ 60
Ferns, per 1000	2 00
Galax, per 1000	1 50
Smilax strings	15 00

MILWAUKEE, June 23.

Roses, Beauty	1 00@ 3 00
" Bride, Bridesmaid	3 00@ 6 00
" Killarney	4 00@ 8 00
" Liberty, Chatenay	3 00@ 6 00
" Perle	3 00@ 6 00
" Richmond	3 00@ 8 00
Carnations	1 50@ 3 00
Daffodils	2 00
Lilium Giganteum	10 00
Lily of the Valley	3 00@ 4 00
Narcissus	2 00
" Trumpets	2 00
Sweet Peas	50@ 1 00
Tulips	2 00@ 3 00
Adiantum	1 50
Asparagus, per string	50
" Plumosus, per bunch	35
" Sprengeri, "	35
Ferns, Common, per 1000	4 00
Galax, per 1000	1 50
Smilax, per doz.	1 75@2 50

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones, ST. LOUIS, MO.

Supplies and Everything in Season always on hand.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

RICE BROTHERS

Wholesale Florists and Supplies.

115 N. 6th St., MINNEAPOLIS, MINN.

Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

Shibeley-Mann Co., Inc

WHOLESALE DEALERS IN

FLORISTS' SUPPLIES and Cut Flowers

1203 Sutter St., SAN FRANCISCO, CAL.

JERSEY CITY, N. J.—Appropriate exercises were carried out at the opening of the Zabriskie playground June 19, games, military drills, addresses and singing being included. John T. Withers was on the committee of arrangements.

Peonies and Summer Roses

OUR RAPIDLY GROWING BUSINESS IS BUILT ON

Carefully Looking After Every Order---No Matter Whether it is Large or Small. We Are as Particular With Our Growers as We Are With Our Customers, and You Will Always Find Here The Best The Market Affords.

WE ARE HEADQUARTERS FOR CHOICE PEONIES AND GOOD SUMMER ROSES.

SEND US YOUR SPECIAL ORDERS.

We Will Fill Them To Your Entire Satisfaction.

ZECH & MANN, WHOLESALE FLORISTS L. D. Phone, Central 3284 51 Wabash Avenue Chicago

Massachusetts Horticultural Society.

PEONY SHOW AT HORTICULTURAL HALL.

Probably never has a finer display of peonies been shown at an unscheduled exhibition at Horticultural Hall than that which was given June 19. While the exhibition was unheralded, many visitors were attracted to the show, which was opened at 10 o'clock and closed at 2 p. m. No regular prizes were offered, but gratuities were awarded, the superior character of the exhibits demanding official recognition from the society. The small exhibition hall was used, and this was filled, peonies predominating, although there were other flowers. A vase of magnificent Iris pallida Dalmatica from Redgates, the fine estate of Charles W. Parker at Marblehead Neck, occupied a prominent position near the entrance, and beside this was the flowering vine Coronilla varia, with curious pink flowers, from the same place. On this table also were shown a collection of seedling German iris by F. J. Rea, of Norwood, and vases of the new dwarf Spanish iris and Lilium croceum from the greenhouses of W. W. Rawson & Co., of Arlington.

The peonies made the show, however, and there was almost every variation fom dark red to white. Wm. Whitman, of Brookline (Martin Sullivan, gardener), was the leading exhibitor, with 105 vases of double peonies and 19 vases of singles. Of the former, Dean Hole, a pink, was one of the handsomest, while the singles had their most attractive specimen in Lady Lillian Ogle, a white with a yellow center. The Moonstone, a red with yellow pistils which powdered the petals with gold, was another handsome variety. These were displayed on a side table along the hall, and 17 more vases were on a center table. At the end were five vases of the pink and white Magnifica, the finest peony shown, from the same estate. On one of the center tables Mrs. John L. Gardner of Brookline (Wm. Thatcher, gardener) had 25 vases of peonies, notable among which was a rich pink having petals fringed with white, Elegans Superbissima.

E. J. Shaylor of Wellesley Farms occupied part of two center tables with 117 varietes, one of the finest of which was Lady Alexander Duff (?), a light pink. The original label of the first imported stock was shown. A vase of Ceres, with pink petals surrounding white quilled petals and a deep pink center, was striking. A novelty in this exhibit was the lemon-colored Lutea Plenissima. T. C. Thurlow of West Newbury also had 117 vases of peonies, besides Kalmia latifolia and two irises, Sibirica and Sibirica Orientalis. In large vases were shown the pink L'Esperance, the light pink Achille, the white flecked with red Mme. de Verneville and the red Mme. Mechin peonies. These were placed on a side table running the length of the hall. George Hollis of South Weymouth showed 15 varieties (40 blooms) of new seedling peonies, including Rev. L. W. Atwood, a white; Seraph, a light pink; Mrs. Josephine March, a white, and President C. W. Eliot, a pink, none of which had ever before been exhibited here and probably anywhere.

A Paris Rose Show.

Paris, June 19.—The prettiest sight in Paris just now is the roseraie, or rose garden, in the Park of Bagatelle, where 50,000 rose bushes are in full bloom, presenting a truly superb spectacle in their glorious array. Yesterday the international jury, presided over by M. Chausse, president of the municipal council of Paris, and comprising Alexander Dickson and William Paul, of England; Peter Lambert, of Germany, and Quentin Beauchart, Rebeillard, Graveraux and Escudier, of Paris, examined the roses to award prizes for the finest new species created during the present year.

After five hours of investigation they gave the gold medal of the Grand Prix de Bagatelle to Lyons, the large curly petals of which are of delicate tints, varying between pink and orange. It is a hybrid tea. The gold medal for the best new foreign bred rose of the year was awarded to a Luxembourg variety, Mme. Ségond Weber. It is salmon color, and is also a hybrid tea. Another prize was awarded to the German rose, Frau Oberhofgartner Singer, the undulating petals of which are white at the base, with dainty, pearly pink tips. At Bagatelle there is also a magnificent display of colored water lilies, including several hundred varieties. The sight is well worth a visit of American travelers.—New York Tribune.

CINCINNATI, O.—The greenhouse in the rear of the residence of Mrs. James H. Perkins, Stettinius avenue and Observatory road, Hyde Park, was completely destroyed by fire June 13 with a loss of $8,000.

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty	
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75

	Per 100
Mrs. Jardine, select	$6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Tulips	4 00 to 6 00
Valley	2 00 to 4 00
Daffodils	3 00 to 4 00
Callas	8 00 to 15 00

Asparagus Plumosus
Extra quality, per bunch..... 75c

Fancy Ferns, per 1000.....$ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

Rochester, N. Y.

The regular monthly meeting of the Rochester Commercial Florists' Association was held June 14. The principal business of the meeting was a discussion of the plans shown for the flower show to be held in November next. All present were very enthusiastic over the plans shown at this meeting and confident that a flower show carried out on these lines will be a fine thing for all concerned. A. H. Secker, vice-president of the association, who is leaving the city, having accepted a position with a trade paper to act as representative for Philadelphia and vicinity, announced his resignation, much to the regret of all the members of the association, and he leaves with the best wishes of all for success in his new undertaking. E. P. Wilson was elected to fill the vacancy caused by the resignation of Mr. Secker. S.

"THE BUSIEST HOUSE IN CHICAGO."

"You may break, you may shatter the vase if you will,
The scent of the **Peonies** will hang 'round it still."

PEONIES, all grades from $2.00 to $6.00 per 100.

All Other Seasonable Flowers.

J. B. DEAMUD CO., 51 Wabash Ave., **Chicago**

Chicago.*

THE SLAUGHTER OF THE INNOCENTS.

The slump continues. The slaughter goes on. Nothing is safe from the cutting and slashing of the mad throng. And yet they do not move. Standing in battle array awaiting the coming purchaser, regiment upon regiment, battalion upon battalion droop and wilt, and company after company finally drop out of line and are picked up by the Grecian army of camp followers or find their last resting place in that hospital for sick flowers "from which no traveler returns."

A GLUT, AND THEN SOME.

Peonies to right of you, peonies to left of you, peonies in front of you. No matter where you turned there were peonies. All sorts and conditions—in all stages of sobriety from the glorious Festiva Maxima to the miserable "cull" on which the grower is wasting the transportation charges. Thousands are going into cold storage against the time when the supply will diminish, the dealers adopting this plan figuring that they can realize better than holding charges by this method. But it is always to be remembered that the aster follows close on the heels of the outgoing peony and whether this will prove a wise move this year remains to be seen.

THE ROSE SITUATION.

There is very little that can be said about the rose situation that has not already been said. New American Beauty, Kaiserin and Killarney are of exceptionally good quality and should bring better prices, but the glut in the peony market has put its blighting hand on these flowers and restricted the demand to a minimum. A few very handsome My Maryland and President Carnot were seen and, on account of their scarcity, brought fairly good prices. Bride and Bridesmaid are a fraction better than they were a week ago, but the demand has fallen off. Lily of the valley is good property and there is a steady demand. Sweet peas are in great profusion and with daisies and cornflowers are moving fairly well. There has been quite a good deal of funeral work the past week and a good deal of stock has been worked off in this way. Wedding orders have not been much of a factor. The Greek merchants have helped the situation materially, and without this outlet the market would have been in a very bad way.

W. J. SMYTH IN AUTO ACCIDENT.

W. J. Smyth will probably be laid up for the next six weeks as a result of being pinned against the side of the barn by his automobile last Sunday at his summer home at Lake Marie. An X-ray examination at St. Luke's hospital on Monday disclosed the fact that the large bone above the kneecap had been fractured, which will necessitate the wearing of a plaster cast.

Believing the brake to be set Mr. Smyth was cranking up his machine when it moved forward and pushed him up against the side of the door post and held him there until his cries attracted the attention of persons in the house close by, who came and released him. Dr. D. H. Williams was summoned and advised his immediate removal to a hospital and an early train was taken for this city.

NOTES.

H. R. Hughes of West Van Buren street has a very pretty window, suggestive of summer. A large sheet of water, made possible by the ingenious use of a big tarpaulin, is surrounded with rustic effects. Ducks and gold fish disport themselves there, and water lilies float on the surface. Near by is a park scene with a baseball diamond, and players are well carried out as to scale and very realistic. Hundreds of people are attracted, and it is quite one of the sights of the neighborhood.

A committee of the Florists' Club is considering the proposition as to the place at which to hold the annual picnic. A very favorable offer has been made by the Riverview park people to use the picnic grove that adjoins the amusement park. This grove contains a baseball diamond, track, restaurant and other features, and can be reached from any car line in the city. It seems the logical spot for this affair, which is billed to come off the latter part of July.

Miss Caroline Hollenbach, daughter of Peter Hollenbach, 1724 Fulton street, and George W. Strickert of Blue Island were married at the home of the bride June 15. Only the immediate family was present. After a trip through Colorado Mr. and Mrs. Strickert will be at home at 1636 Fulton street.

Relative to flowers at school exercises W. N. Rudd, secretary of the S. A. F., writes: "I wish you all success in the matter and shall be very glad indeed to assist in any way that I can. Should there be any subsequent meetings I will make it a point to attend."

Flowers must not be presented at school exercises, but the eighth grade teacher at the Kosminski school has taxed each boy in her class 30 cents for ice cream that she says is to cost 60 cents a quart, and each girl must bring a cake.

E. A. Asmus, formerly of 1860 Evanston avenue, and recently in the forestry department of the United States government, has opened a place in Billings, Mont., which will be known as the Billings Greenhouse Co.

E. H. Hunt has put a new sprayer on the market that, it is claimed, will never wear out. The sprayer is made of aluminum and contains two brass plates or discs one with large and the other small perforations.

Some exceptionally fine varieties of Cattleya gigas, of the Sanderiana type, are flowering in one of the big conservatory annexes in Garfield park. These are very much above the average.

H. A. Eckert is the latest addition to the working force of the A. L. Randall Co. He is in the supply department and will go on the road for this house about August 1.

Bassett and Washburn are showing some exceptionally fine Kaiserin and Carnot roses. They have a large range of glass planted exclusively to these summer roses.

Poehlmann Bros. have added a $600 team of mules to their live stock. August Poehlmann claims they have anything beaten this side of Texas.

Charlie McKellar has added an Oldsmobile to his racing string and was a prominent figure at the Cobe cup races at Crown Point, Ind., last week.

Leonard Kill was also an interested spectator of the mad flight of the speeding autoists in their wild dash around the "S" curve on Friday.

James King, the peony grower of Elmhurst, states that he has had better success with his growing this year than in any previous season.

The American Beauty roses now being sent in from Peter Reinberg's range at Summerdale are particularly choice.

Visitors: Mrs. A. L. Glaser, Dubuque, Ia.; W. A. Hartman, South Haven, Mich.; —— Hurst of Tipton & Hurst, Little Rock, Ark.

(OTHER CHICAGO NOTES ON PAGE 1127.)

*Do not fail to attend the meeting at Peter Reinberg's at 3 p. m. Thursday. The committee to visit the school board will leave from there n body.

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.

ORCHIDS

A Specialty

Fancy Stock in **Peonies, Valley, Roses, Beauties, Carnations** and a full line of all **Cut Flowers, Greens, Wire-Work** and **Florists' Supplies.**

Send for Complete Catalogue.

Cut Flowers **E. H. HUNT**

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central 6004. Catalogue Free.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

Mention the American Florist when writing

KENNICOTT BROS. COMPANY

WHOLESALE CUT FLOWERS

48-50 Wabash Ave., Chicago
L. D. Phone, Central 466.

We will have anything in the line of
CUT FLOWERS and GREENS
that you may want if anybody has it at Chicago market prices on day of shipment.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

Vaughan & Sperry,

Wholesale Florists,

52 and 54 Wabash Ave., CHICAGO.
WRITE FOR SPECIAL PRICES

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

Wholesale Flower Markets

CHICAGO, June 23.

Roses, Beauty, extra select...		3 00
" " 30 in		2 50
" " 24 in		2 00
" " 20 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select..		4 00@ 6 00
" " medium		3 00@ 4 00
" Chatenay, Sunrise.....		3 00@ 6 00
" Golden Gate, Uncle John..		3 00@ 6 00
" Kaiserin		3 00@ 8 00
" Kate Moulton.....		3 00@ 8 00
" Killarney, select.....		6 00@ 8 00
" " medium		4 00@ 5 00
" Mrs. Marshall Field		4 00@ 6 00
" Mrs. Potter Palmer.....		4 00@ 8 00
" Perle		6 00@ 8 00
" Richmond, extra select....		6 00@ 8 00
" " medium.....		4 00@ 5 00
Carnations, select, fancy.....		1 50
" common.....		1 00
Cattleyas.....per doz.		6 00
Daisies.....		75@ 1 00
Forget-me-nots		1 00
Lilium Harrisii per doz. 1 50@2 00		15 00
Lily of the Valley.....		3 00@ 4 00
Peonies, select.....		2 00@ 6 00
Sweet Peas.....		35@ 75
Adiantum		75@ 1 00
Asparagus Plum. strings..each		50@ 60
" " sprays		2 00@ 4 00
" Sprengeri.....		2 00@ 00
Ferns.....per 1000		2 50
Galax, green..per 100	15; per 1000	1 00
" bronze.per 100	15; per 1000	1 00
Leucothoe sprays.....		75@ 1 00
Smilax strings .....per doz.		1 50

NEENAH, WIS.—Work on the enlargement of Lewis Otto's greenhouse has been commenced.

Quality Counts..

Let us have your next order for
Roses and Carnations
and other Seasonable Flowers.

JOHN KRUCHTEN,
51 Wabash Ave., CHICAGO.

WEILAND & RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO
Telephone, Central 3284.

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

Mention the American Florist when writing

The Benthey - Coatsworth Co.

35 Randolph St. Wholesale Florists CHICAGO.

Send Advts. Early for Best Display and Position.

NOTICE!

Manhattan Flower Market

WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

SUMMER DULLNESS.

Summer dullness has settled down over the wholesale district. Prices during the past week were on the toboggan and it was hard to keep them in sight much less to follow them. When our last report was sent in it did not appear that the best carnations could sell lower than $2 per 100, but they did. A leading dealer said it was the first time since he went into business that he had to throw away such good stock. Other stocks were equally as bad, possibly worse, from the fact that carnations in quality have, as a rule, held up better than roses. Rose stock, as a rule, has been very poor and to complicate the situation Gen. Jacqueminot have been arriving in by the thousands, going largely into the hands of the street vendors. The peony surplus cannot be handled on the street to advantage, therefore it goes sailing down the bay with the dust and ashes of the city. The sailing of a number of steamers on Saturday, June 19, made considerable business for the retailers, as the steamer trade seems to be on the increase, but little impression was made on the surplus. When the peonies are gone and the growers throw out their carnations we may expect some relief.

June 23 (by wire).—We are experiencing the worst glut ever seen in this market. The best American Beauty roses are selling for 10 cents each, fine carnations at one cent and lilies two cents each, with all other leading stocks at similar low prices.

NOTES.

The Rev. Peter E. Reilly, pastor of St. Henry's Roman Catholic church, at Broadway and Twenty-sixth street, Bayonne, N. J., forbade on June 20 in the pulpit the presentation of flowers to the parochial school graduates at the commencement this week. "Generally," said Father Reilly, "a few graduates whose parents and friends can spare the money, receive elaborate displays of flowers, while other graduates, who may be the intellectual flowers of the class, receive none because their parents and friends cannot buy them. In order that there shall be no heartaches because of flowers I have decided not to permit any to be presented." While not denying that there is some logic in the above, we do not think that it is a matter intimately connected with the saving of souls.

Sam. Snyder, who has a retail store at 1115 Second avenue, has no longer any reason to feel lonesome. The entrance to the new Queensboro bridge is almost at his door and he is in a position to "catch 'em coming and going." And, speaking of the new bridge, its opening was fittingly celebrated by the florists on the Long Island side. The Siebrechts, John Donaldson, John Miesam, Phil. Kessler and others made the eagle scream and do stunts until the poor bird was almost tired out.

The fishing schooner Faustina, which arrived here June 22, had on board the 17-foot tin monitor which the G. A. R. of Trenton and Camden, N. J., set adrift Memorial day. The strange craft was decked with flowers when it was picked up 35 miles off the Jersey coast. Along the side of the boat was painted the legend: "In memory of our sailors."

Tom King, a well-known peddler of flowers, who at one time had considerable trade about the tenderloin resorts, threw himself from the platform of the L road station at One Hundred and Tenth street to the street on June 21, and was instantly killed. King was lame and of irregular habits, and it is probable that he was driven to desperation by his bodily infirmity and poverty.

Mrs. E. J. Polykranas, wife of the well-known retailer of 665 Columbus avenue, who spent seven weeks in St. Luke's hospital after an operation for a complicated case of appendicitis, has recovered sufficiently to return to her home. She is a popular woman in the society in which she moves, and many friends will rejoice at her restoration to health.

S. J. Reuter of Westerley, R. I., was in the city on June 22. He is this season erecting new houses that are now ready for glazing and that will have an area of 60,000 square feet of glass. Roses are extensively grown at the Reuter range and many of them are sold by Moore, Hentz & Nash of the New York Cut Flower Co.

Theodore Outerbridge of Sunnylands, Bermuda, is visiting old friends in this city. He is an extensive grower of lilies and sago palms. He says that while it cannot yet be determined how the lily crop will turn out, indications when he left Bermuda were favorable.

During July and August the New York Cut Flower Co. will close at 1 p. m. As previously stated in these columns this company never opens on Sunday and it seems to have continued and increasing prosperity.

A. H. Langjahr makes no pretentions to being an "orchid king," but he has of late been handling very fine blooms of cattleya.

Millang Bros. are now handling a particularly fine line of cut lilies, as well as a good variety of all other stocks.

Horace E. Froment has been serving on a jury in the criminal court.

ALL ABOARD!

FOR THE

Ninth Annual Outing and Bean Feast of the

NEW YORK FLORISTS' CLUB

Thursday, July 1st, 1909

Steamer Leaves foot East 31st St,

10:00 a. m. Sharp.

$300.00 IN PRIZES

For souvenirs, list of events and further particulars, write to

HARRY A. BUNYARD, Chairman, 342 W. 14th St., New York.

Buffalo.

Trade is good and weddings are very much in the limelight at present. School commencements will give us all we can take care of for the next week. But there is a noticeable depreciation in the number of flowers used, probably due to the fact that a great many bunches do not reach the ones they are intended for. To try and overcome that condition President Slattery of the Florists' Club, had an interview with the superintendent of education and suggested the feasibility of the florists sending some one to take charge of the flowers at the schools or halls, which was readily agreed to by the school department. A meeting of the club was called for Saturday evening to act on the interview of President Slattery, but unfortunately the store men were not there, and only representatives of different stores and two proprietors. From the talk it was apparent that an organization of the proprietors of the different stores was the only way that the situation could be overcome, and not through the B. F. C., which is composed of proprietors and all affiliated with the florist business in every capacity, which no doubt is advisable. However, it is too late this year to cope with the situation, but it is hoped that some action will be taken that will revive the interest that has been lagging, owing to the fact that a few were disappointed and did not receive a bouquet. It would be far better for the florists to supply bouquets to the one who had none than to let the good revenue that comes for that week be discouraged by the school principals, and others who come in contact with those who from one cause or another do not receive a bouquet. While this is a condition here it no doubt applies to other cities and suggestions from them would, we are sure, be appreciated.

1887 Telephone 167 Madison Square. 1909

J. K. ALLEN,

Wholesale Commission Florist,
Established 1887.
106 West 28th Street, NEW YORK CITY.

Open the year around to receive shipments of Cut Flowers.
Open Every Morning at 6 a. m. Prompt Returns To Shippers.

Traendly & Schenck,

WHOLESALE FLORISTS,
44 West 28th Street, New York City.
Phones, 798 and 799.

OFFICIAL S. A. F. **Shipping Labels**

FOR CUT FLOWERS: in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red Price per 500, $2.85; per 1000, $4.50. Samples on request. Electro of leaf, postpaid, $1.25. Cash with order.

AMERICAN FLORIST CO., 324 Dearborn St., Chicago

GROWERS' CUT FLOWER COMPANY

WHOLESALE FLORISTS
J. J. COAN, Manager. Consignments Solicited.
Telephone 6237 Madison Square.
39 West 28th Street, NEW YORK

Alexander J. Guttman,

THE WHOLESALE FLORIST OF NEW YORK
34 WEST 28th STREET
PHONES, 1664-1665 MADISON SQUARE
ENOUGH SAID

A. L. YOUNG & CO

WHOLESALE FLORISTS,
54 West 28th Street, NEW YORK.
Consignments of Choice Cut Flowers Solicited. Prompt Payments. Give us a trial. Telephone 3559 Madison Square

—FLOWERS SHIPPED BY—

JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.
Adiantum Croweanum sold here exclusively.
49 West 28th St., NEW YORK.
Telephone 1998 Madison Square.

Millang Brothers,

Wholesale Florists,
41 W. 28th St. NEW YORK.

N. Y. Cut Flower Exchange

Coogan Bldg., 6th Ave & W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.
Desirable Wall Space to Rent for Advertising.
V. S. DORVAL, Secretary.

KESSLER BROS.

50 W. 28th St., NEW YORK.
CUT FLOWERS
Wholesale Plantsmen and Florists.
Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited

ALFRED H. LANGJAHR

WHOLESALE FLORIST,
55 W. 28th Street, NEW YORK.
All flowers in season. Consignments of first-class stock solicited.
Telephones 4626 and 4627 Madison Square.

Tel. 1009 Madison Sq. Established 1872

PERKINS & NELSON,

Wholesale Florists,
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VALENTINE & CO.

Wholesale Dealers in
CUT FLOWERS
158 East 110th St., Between Third & Lexington Aves. New York City

Wholesale Flower Markets

	NEW YORK, June 23.	Per 100
Roses, Beauty, special		12 00@15 00
" " fancy		10 00@12 00
" " extra		6 00@ 8 00
" " No. 1		2 00@ 3 00
" " No. 2 and No. 3		50@ 2 00
" Bride, Bridesmaid, special		3 00@ 4 00
extra and fancy		1 50@ 2 00
No. 1 and No. 2		50@ 1 00
" Killarney special		4 00@ 5 00
extra and fancy		1 50@ 2 00
" Richmond		50@ 6 00
Carnations, fancy and special		1 00@ 2 00
" common		25@ 75
Callas	per doz.	40@ 50
Cattleyas		10 00@35 00
Coreopsis		35@ 75
Daisies		50@ 1 00
Feverfew	per doz.	50@ 60
Gladiolus		5 00@ 6 00
Gardenias	per doz.	1 00@ 2 00
Lilium Longiflorum		3 00@ 4 00
Lily of the Valley		1 00@ 2 50
Peonies		1 00@ 5 00
Snapdragons (Antirrhinum)	doz.	15@ 35
Sweet Peas	per doz bunches	20@ 75
Asparagus	doz. bunches	1 50@ 2 50
Smilax	per doz. strings	75@ 1 50

J. SELIGMAN JOSEPH J. LEVY

John Seligman & Co.

Wholesale Florists,
56 West 26th St. NEW YORK.
Opposite N. Y. Cut Flower Co.
Everything in Cut Flowers. Consignments from growers solicited. Prompt returns. Best prices. Satisfaction guaranteed. Tel. 4878 Madison.

FORD BROS.,

Receivers and Shippers of
Fresh Flowers
48 West 28th St., NEW YORK.
Telephone 3870-3871 Madison Square.

Moore, Hentz & Nash,

Wholesale Commission Florists
55 and 57 West 26th Street,
Telephone No. 756 Madison Square. NEW YORK.

HORACE E. FROMENT

WHOLESALE COMMISSION.
American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.
57 West 28th St., NEW YORK CITY
Telephones: 2200 and 2201 Madison Square.

Walter F. Sheridan

WHOLESALE FLORIST,
Telephones: 3532 and 3533 Madison Sq.
39 West 28th St., NEW YORK

Young & Nugent,

Telephone, 2065-2066 Madison Sq.
42 West 28th St., New York
To out-of-town Florists: We are in the Heart of
And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

The "Hub"

Centrally located between the two markets.
CHARLES MILLANG,
Wholesale Florist,
444 Sixth Avenue, cor. 27th St.. NEW YORK
Consignments Solicited.
Telephone 7062 Madison Square.

Philadelphia.

WEATHER INJURES STOCK.

Real summer weather has set in, with the glass mounting above 90° in the shade. The stock coming in shows the effect of this extreme heat and is rapidly deteriorating. Eastern rose stock, American Beauty, Killarney and Kaiserin, have the call, the Beauties and Kaiserines are particularly fine, as good as the best seen here during the winter season. There are still a few storage peonies which come out in fine shape, and are used to good effect in decorations. Sweet peas are better this week, the stock lately having been spoiled by the severe rains. Water lilies from the south, fancy varieties, are used for window decorations. Iris Kaempferi is in and the large showy blossoms are fine in decorative effects. Good lily of the valley is a trifle scarce, as are cattleyas, which are held at $6 to $7.20 per dozen. Business is fairly good for the season. There have been several important weddings, Pennock Bros. having the Pave wedding at Radnor on Monday last, and Battles the Fell wedding on Wednesday. At this latter function Easter lilies had the call, something over 1,500 blooms being used.

NOTES.

Dennis Connor, the wide-awake representative of the Lord & Burnham Co. in this city, reports the erection of a new orchid and palm house for Louis Burk, Esq., at Broad and Jefferson streets. The orchid house is 18x30 feet, and the structure for palms 26x50. The orchid house is to face on the street with plate glass front and to be kept at all times filled with plants in flower as was the custom with the Baldwin Conservatory years ago on Chestnut street. This is a most praiseworthy undertaking and one that will be greatly appreciated by the citizens in this section. Mr. Connor has also received an order for a house 60x200 feet for F. T. Way & Bro. of Kennett Square. This is in course of erection and will be used at first for tomatoes and carnations. A prominent feature of the house is a shadeless ridge pole which is set back from the center by having the longest slope of the house to the south, and in this way there is no shadow from this usual source.

T. Neilson Geiger, Florist, is the sign on the window of the new cut flower store on Thirteenth above Walnut, where Wallace Faust and Charles Malby are the artists in charge. Under the guidance of these old war horses things should hum. Mr. Geiger is a broker with a fancy for the cut flower business, and has fitted up the shop in first-class style. An ice box 3½x12 feet, finished in white enamel, with large sliding doors and large slabs of white marble in place of the usual mirrors on top around the ice chamber is a feature. White marble slabs cover the counters, which are placed against the wall, over which are arranged wide shelves in two sections, between which is a ribbon case and underneath a neat writing desk for customers' use. There is a fine display window. All the woodwork of the fixtures is finished in white enamel. A cross counter at the end is to be used as a work bench. It is certainly a handsome little store and we extend our congratulations to the proprietor and his able assistants, Messrs. Faust and Malby, and wish them every success.

The action taken by the Horticultural Society in deciding to sell the hall and repay the bondholders is a great disappointment to the craft in this city who have thought that there would be a way found to avoid a sale. It is hoped something can yet be done to stave off this which is nothing short of a catastrophe for the society.

Wm. McKissick & Bros. had an order for over 1,000 Easter lilies this week and also handled hundreds of eastern American Beauty roses. They report business very good for the season.

At Niessen's busy market American Beauty roses are handled in large quantities of very good grade for local stock. Cattleyas are also a specialty.

Glazing is now going on at the Craig Co.'s new addition, and it is expected to have the houses planted before July 1. K.

Pennsylvania Horticultural Society.

At the meeting of the Pennsylvania Horticultural Society, held June 15, it was determined to sell the property and pay off the bondholders, which will cost the society $200,000. It was contended that as the usefulness of the hall as a place for the holding of social functions had been seriously impaired by the superior advantages offered by the new Bellevue-Stratford hotel and that as there appeared no hope of getting this trade back, and the building not being fitted in many respects for a general public use, it had better be sold before it ran into debt. Much stress was also laid on the amount of money that would come to the Horticultural Society as the result of the sale, as on account of the small amount in the treasury it had great difficulty in keeping faith with its exhibitors in the payment of premiums. The enviable position of the society, with an income of at least $12,000 per year as the result of $300,000 at interest, and the great good it could and no doubt would do with such a sum annually at its command, was also another argument as seen by the bondholders. Again, it was said that in the event of the trustees for the bondholders giving up the hall, releasing or returning it to the society, it would be a white elephant on its hands as it could not run it, having no capital; the society is not chartered to carry on such a business and would soon get heavily in debt. These were the main points brought out by the bondholders, the owners of the building, who ask the society to sell the entire property and return to them the sum of $200,000, which it will take to redeem their bonds at the face value. There have been several offers made for the property, the latest being in amount $300,000. It is said by real estate men to be worth at least $600,000, and likely to bring this amount if not forced on the market. Much stress is laid on the following clause in the lease, made by the society to the bondholders before the building was erected, the lease reading to run "for the term of 30 years from the twenty-eighth day of November, 1894, or until the principal of all the certificates issued to provide funds for the erection of the new hall shall have been paid."

The above clause is cited to show that the society cannot come into possession of the building until these bonds are all paid off. A further clause says: "The lessees further agree during said term to keep, and at the end thereof, or sooner determination of this lease, peaceably, to deliver up the premises in good order and repair." The final clause is most important and says: "If the said lessees shall fail to remove from the said premises at the expiration of this lease as herein above provided, or if said lessors shall not well and truly perform all the covenants and agreements herein contained on their part to be performed and kept, then this lease shall at the option of the said lessors cease and absolutely determine." Now the main clause covered by "keeping of all the covenants and agreements," is the payments of all fixed charges, such as taxes, water rents and insurance. It is the fear of there soon being insufficient funds from the earnings of the hall to meet such payments that has brought about this desire to sell. There is in addition to the lease a paper called "an agreement" between the society and the trustees for the bondholders, but which seems to contain little of interest except that the society shall appoint three members of the house committee to act in conjunction with a like number of men appointed by the bondholders to take charge of the building and its contents. They also agreed to pay one-half of the wages of the janitors and the engineer. To the best of my knowledge these two clauses died in their infancy as no reports have been received from the house committee nor bills approved for janitor's services been offered to the society in recent years. There is no clause in either the lease or agreement in which the society binds itelf to recompense the bondholders, provided their venture did not prove to be successful. The following clause in the prospectus of the syndicate shows their great expectations for the success of the venture.

It is confidently believed that the property with a new and attractive building suitably arranged for the purposes above indicated will be worth a large sum and that its rental capacity will be worth not less than $20,000 per annum, or at least $10,000 net, after the payment of taxes, insurance, cost of maintenance and repairs, and will be sufficient security for a loan of $200,000 represented by bonds with 30 years to run. It is said by some that the building of the hall was a partnership matter between the society and the syndicate of bondholders, but I fail to see it so expressed or inferred anywhere in either agreement, while it is expressly stated in the last paragraph of the lease above referred to "that if the said lessors shall not well and truly perform all the covenants and agreements on their part this lease shall absolutely determine and the society, the lessors, shall recover possession of the premises. It is for fear of their inability to longer perform and keep all the covenants and agreements that they now desire to sell and ask the society to reimburse them. And this the society at its last meeting has agreed to do. I hope this hasty action is not final. The deed of trust especially provides against the encumbrance of the fund in any manner whatever, and the effect of this arrangement if carried out in the payment of $200,000 to the bondholders is exactly the same as if a mortgage of this amount was foreclosed, and the property sold to satisfy the same, and the courts may also take this view of it. Before the hall was built an offer was made for the ground with the ruins of the burned hall on it of $250,000. The offer of the syndicate, however, looked so good it was thought best to let them go ahead. If they had said, gentlemen, we are going to build you a beautiful hall at an expense of $200,000 and give you the free use of it for 15 years, but at the expiration of that time we will expect you to sell the property and return us our investment, I wonder how many would have agreed?

ROBERT KIFT.

SPRINGFIELD, O.—The Leedle Floral Co. says that roses have never sold better than this season.

NEW BRITAIN, CONN.—Business has been good this spring, especially Decoration day, although flowers were scarce, more particularly carnations; there never seems to be enough baskets, and bunches have sold well.—T. E. B.

Field-grown Carnation Plants
Ready Early in July. Send for List and Prices.
The Leo Niessen Co.
Wholesale Florists, 1209 Arch St. Philadelphia.

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants
American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.
—Send For Prices.—
W. H. Elliott, Brighton, Mass.

Pittsburgh Cut Flower Co.
(Limited)
The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

BEST QUALITIES
Tea Roses, Beauties, Valley, Peas, Peonies.
THE McCALLUM CO., Inc., PITTSBURG

J.B. Murdoch & Co.
714 Penn Avenue, PITTSBURG, PA.
All Seasonable Flowers.

Choice Assortment of Cut Flowers will be found here.
WRITE FOR PRICES.
W. E. McKissick & Bros.
WHOLESALE FLORISTS.
Business Hours 7 a.m. to 8 p.m. 1619-1621 Ranstead St., PHILADELPHIA, PA.
ABSOLUTELY THE BEST POSSIBLE SERVICE.

Boston.

A GLUT OF STOCK.

Odds and ends attendant upon graduation and receptions with a few weddings here and there have left things moving slowly around town, but the enormous quantities of stock being thrown on the market decrease but little from day to day. Wedding decorations are fewer this June than for years, a very strong feeling of subdued simplicity marking everything so far attempted in this line. This week officially terminates the local season and from here on the long summer season prevails with wicked effect upon storekeepers. The market is flooded with all kinds of mid-summer goods, with first class stock at a premium. American Beauty roses are holding their own firmly, and a few good Killarneys are obtainable. Outside of these and Kaiserin there is little variety. The first outdoor roses are coming in and we now enjoy real Jacqueminots, a treat in these advanced times. Carnations are constantly pouring in and the sight is rather a ridiculous one when we note the thousands already on sale at any price. Cattleyas have dropped out of sight suddenly, and the few growers fortunate enough to have them on hand are easily getting $5 per dozen.

NOTES.

Herbert T. Capers, the well-known sales agent with headquarters at the Music Hall Market, was quietly married June 16 to Alice J. Evans, daughter of the late Charles and Mrs. Evans of Watertown. The groom is the son of Thomas Capers of Wellesley, the ceremony uniting the families of two of the best known commercial growers in New England. The happy pair are at present enjoying their honeymoon and are expected home this week. Mr. and Mrs. Capers will reside for the present with the bride's mother, Mrs. Charles Evans, in Watertown.

Thomas F. Galvin (Inc.) were the decorators conducting the floral arrangements incident to the Cobb wedding at Marblehead this week. This was the most elaborate wedding of the season and the house and grounds were lavishly dressed for the occasion; the skill and taste of the entire scheme appealed to a most critical list of guests, who loudly commended the directors.

An unscheduled exhibition of summer flowers was held at Horticultural Hall June 19. Peonies comprised the great attraction, the wonderful display proving a great drawing card for the thousands of people who were amply repaid for the time involved.

Welch Bros. are wholesale agents for Gladiolus America, the product of their growers ranging well among the large list of good growers now sending this new factor to market.

Henry M. Robinson is spending a few weeks in rest and recreation on his farm in Keene, N. H. B.

Wholesale Flower Markets

PHILADELPHIA, June 23.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	3 00@ 6 00
" " extra	8 00@12 00
Carnations	2 00@ 3 00
Cattleyas	50 00@60 00
Gardenias	15@ 25
Gladiolus	6 00@10 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Peonies	4 00@ 8 00
Sweet Peas	50@ 75
Adiantum	75@ 1 00
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, June 23.	Per 100
Roses, Beauty, specials	15 00@25 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	1 00@ 6 00
" Chatenay	1 00@ 6 00
" Killarney	1 00@ 6 00
" Richmond	1 00@ 6 00
Carnations	1 00@ 2 00
Iris	1 00@ 3 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	2 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00@20 00

BOSTON, June 23.	Per 100
Roses, Beauty, best	29 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

—CHOICE—
Carnations, Roses, Beauties,
All Seasonable Flowers.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

DALLAS, TEX.—In the county clerk's office June 7, a deed from E. H. R. Green to the Green Floral Co., in which the consideration named is $115,000, was filed for record. It conveys to the latter corporation several tracts of land out of the Lagow survey. The deed is dated April 16, last, and conveys also all plants, horses, appurtenances, etc., except certain bills receivable. In addition E. H. R. Green and Harry Donnelly transfer by deed to the Green Floral Co. 96 7/10 acres of the John Grigsby league for the sum of $10,000. This deed also conveys all greenhouses, etc., on the land.

CUT FLOWERS OR DESIGNS

will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Kansas City, Mo.

WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in

Missouri, Kansas or Oklahoma.

Kansas City, Mo.

Samuel Murray

.....FLORIST.....

1017 Broaway Coates House Conservatory

Both Phones 2670 Main.

Write, Telephone or Telegraph, All orders given prompt attention.

St. Louis, Mo,

Write, Wire or Phone Your Orders to

YOUNGS

1406 Olive Street,

Regular discount allowed on all orders, either Plants or Cut Flowers.

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CUT FLOWERS

For Tourists and General Trade.

Wire or mail. Highest Grade Stock Only.

URIAH J. **VIRGIN,** 838 CANAL ST.

Indianapolis, Ind.

Bertermann Bros. Co.

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.....241 Massachusetts Ave.

Louisville, Ky.

Established 1880.

Orders for delivery in this city and nearby points in the South solicited by

M. D. REIMERS

Successor to Chas. W. Reimers,

.....329 Fourth Avenue.

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JACOB SCHULZ,

550 So. Fourth Avenue.

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FRANK F. CRUMP,

Wholesale and Retail. Florist.

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THE ANDERSON FLORAL CO.

533 MARSHALL AVE.

Toronto, Can.

Only the Best

Dunlop's

Canada's Best Known and Most Reliable Florist.

96 Yonge Street.

We Deliver Anywhere in Canada and Guarantee Safe Arrival.

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FLORISTS,

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The Park ....Floral Co.

J. A. VALENTINE, President.

Denver, Colo.

FLORAL DESIGNS AND FLOWERS

Best Quality on Shortest Notice

DANIELS & FISHER

Order by mail, telephone, telegraph or cable. Cable address "Daniels, Denver"

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WASHINGTON D. C.

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Philadelphia, Pa.

Robert Kift,

1725 Chestnut Street.

Prompt and Careful Attention given to all Mail and Telegraph orders.

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EYRES

Flowers or Design Work.

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

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J.B. KELLER SONS,

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Write, Telegraph or Telephone.

CUT FLOWERS OR DESIGNS will be Delivered for the Trade on Wire or Mail Orders in Best Qualities and Prices.

Chicago.
Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

Auditorium Annex.
Mail, Telegraph or Telephone Orders Filled Promptly in Best Style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,
—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

Geo. M. Kellogg Flower and Plant Co.,
906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,
129 South Seventh St.
Telephone **247.**
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen
— FLORIST —
Special Attention to Telegraph or Telephone Orders. **Phone 1912.**

Atlanta, Ga.

Atlanta Floral Co.
41 Peachtree Street.

Hoffman FLORIST
59-61 Massachusetts Ave. for Commonwealth Ave.
BOSTON.

Allan Line (Al.); Anchor Line (A.); American Line (Am.); Cunard Line (C.); French Line (Fr.); Red Star Line (R. S.); White Star Line (W. S.); Hamburg-American Line (H.-A.); Fabre Line (F.); Holland American Line (H. A.); North German Lloyd (N. G. L.); Austro-American Line (A. A.); Scandinavian-American Line (S. A.).

June 29.

Ivernia (C.) 5:30 p. m., Boston-Liverpool, Boston Pier, Cunard Wharf, East Boston.
Saxonia (C.) Liverpool-Boston.
Rotterdam (H.A.) 10 a. m., New York-Rotterdam, Pier 50 North River, New York.
Kaiser Wilhelm II. (N.G.L.) 10 a. m., New York-Bremen, Pier foot of Second St., Hoboken, N. J.
Kronprinzessen Cecelie (N.G.L.) Bremen-New York.

June 30.

Majestic (W.S.) 9:30 a. m., New York-Southampton.
Madonna (F.) New York-Naples, Amity dock, near South Ferry, Brooklyn.

July 1.

Tunisian (Al.) Liverpool-Montreal.
Pannonia (C.) 12 noon, New York-Trieste.
La Provence (Fr.) 10 a. m., New York-Havre, Pier 42, North River, New York.
Marquette (R.S.) Antwerp-Boston.
Hamburg (H.A.) 3 p. m., New York-Genoa, Pier foot of First street, Hoboken.
George Washington (N.G.L.) 10 a. m., New York-Bremen, Bremen Piers, foot Second and Third streets, Hoboken, N. J.
United States (S.A.) Copenhagen-N. Y.

July 2.

Corsican (Al.) 2:30 p. m., Montreal-Liverpool.
Baltic (W.S.) Liverpool-New York.

July 3.

Sardinian (Al.) Boston-Glasgow.
Furnessia (A.) Glasgow-New York.
Philadelphia (Am.) 10 a. m., New York-Southampton, Pier 15, North River, foot Fulton St., New York.
New York (Am.) Southampton-New York.
Caronia (C.) 10 a. m., New York-Liverpool, Piers 51-52, North River, foot of Jane St., New York.
Mauretania (C.) Liverpool-New York.
La Touraine (Fr.) Havre-New York.
Caroline (Fr.) New York-Havre, Pier 84, North River, foot of W. 44th St.
Chicago (Fr.) New York-Havre, Pier 84, North River, foot of W. 44th St.
Zeeland (R.S.) 10 a. m., New York-Antwerp, Pier 14, North River, foot Fulton St., New York.
Lapland (R.S.) Antwerp-New York.
Celtic (W.S.) 10 a. m., New York-Liverpool.
Romanic (W.S.) 10 a. m., Boston-Liverpool.
Potsdam (H.A.) Rotterdam-New York.
Friedrich der Grosse (N.G.L.) Bremen-New York.
Oscar II. (S.A.) 12 noon, New York-Copenhagen.
Laura (A.A.) Trieste-New York.

EAST ROCHESTER, N. H.—E. A. Corson has built another greenhouse on Autumn street.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.

TELEGRAPH Orders forwarded to any part of the United States, Canada and all principal cities in Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls: 487 and 488 38th St.
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John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.

HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Los Angeles, Calif.

J. W. Wolfskill,
FLORIST.
Telegraph Orders A Specialty. **218 W. 4th St.**

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

San Francisco, Calif.

J. B. BOLAND
Successor to Sievers and Boland,
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in **Wisconsin.**

The Seed Trade.

American Seed Trade Association.

Watson S. Woodruff, Orange, Conn., Pres.; J. C. Robinson, Waterloo, Neb., First Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas. Twenty-seventh annual convention, Clifton House, Niagara Falls, Ont., in progress.

HOLLISTER, CALIF.—The Bank of Hollister is reported to have sued Pieters Seed Co. for $13,183.35.

THE John H. Allan Seed Co. is doing a good deal of contract pea growing in the vicinity of Columbus, Wis.

LEON ESTERBROOK succeeds Lisle Morrison as assistant in charge of congressional seed distribution at Washington.

CHAS. N. PAGE, of the legal committee of the American Seed Trade Association, will make the convention via Washington; he passed through Chicago June 18.

SIOUX FALLS, S. D.—The O. S. Jones Co. is erecting a new seed house of concrete four stories high with a stone front. The building will be made fire and rat proof.

ST. LOUIS, MO.—Adolph Corneli, of the Schisler-Corneli Seed Co., reports the onion set crop about the city looking very well in spite of the rain, the cool weather apparently suiting the crop well.

KNUD GUNDESTRUP writes from Copenhagen under date of June 10 that the weather is still cold and backward and that there will be much less cabbage seed than usual sent to this country this year.

LA PYRAMIDE-TRELAZE, MAINE AND LOIRE, FRANCE.—J. Vaillant retired June 1 from the firm of Bas & Vaillant for personal reasons. The seed business will be conducted by Paul Bas on his own account.

ONE California seed grower reports that there will be a possible shortage of Red Wethersfield, White Globe, White Portugal and Yellow Prizetaker onions. He believes that the season will produce a reasonably good supply of other varieties.

WESTERN wholesale seedsmen are disposed to ask 25 cents per bushel more than last year for both peas and green-pod beans. Cucumbers should be five cents higher and muskmelons ten cents. Watermelon seed should be five cents lower. Turnip, parsley and spinach should be advanced if the Aldrich bill becomes a law.

GOODWIN BRASLAN, the 16-year-old son of Chas. P. Braslan, and named for Aug. H. Goodwin, vice-president of the W. W. Barnard Seed Co., Chicago, has begun a possible seed career by engaging with Vaughan's Seed Store at 25 Barclay street, New York.

SEDALIA, MO.—L. H. Archias of Archias Seed Store, will visit many New York and New Jersey points and also the seed growing districts around Detroit and in Wisconsin while on his convention trip. Mr. Archias will be accompanied by his wife and son, L. H., Jr.

ST. LOUIS, MO.—D. I. Bushnell made an Illinois river excursion with a party of eight friends two weeks ago. "Bush" has to "dig" for ancient relics, but this world's goods come easy to him. Mr. Bushnell will spend his vacation at his old home in Massachusetts.—Madam Corneli, mother of Adolph and Ben, passed away May 26, aged 78 years. She had been in ill health for several months.—F. Benary, Jr., called last week enroute to California.

CHICAGO.—Contract prices on the board of trade June 16 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.—F. H. Henry, of Henry & Lee, and wife and daughter passed through Chicago Thursday, enroute from New York, intending to sail from San Francisco June 24 direct for Yokohama.—H. W. Bruns is now at 196 West Randolph street.—W. W. Barnard is improving and is now believed out of danger.—Visitors: Adolph Corneli of the Schisler-Corneli Seed Co., St. Louis; L. H. Archias, wife and son, Sedalia, Mo.; Albert L. Hart and wife, of C. C. Morse & Co., San Francisco, Calif., enroute to convention; J. L. Peppard, of Kansas City, Mo., and F. T. Barteldes, of Lawrence, Kans., enroute to convention; they will visit New York before returning home.

Leonard Seed Co.'s Warehouse.

We show on page 1117 a view of the S. F. Leonard Seed Co.'s new warehouse at Columbus, Wis. This building covers a ground area of 48x87 feet, and is one, two and three stories in height. The main storage part is 48x67 feet, one story high. The second floor of the two-story section (20x48 feet) is also partly for storage, but the second floor is devoted to hand picking; a large enough force being kept to handle two cars per day. The mills are on the first floor. All the conveying, lifting, etc., is done automatically, seed never being touched from the time it goes into the hoppers until it reaches the picking room. The elevator section is to go 15 feet higher this season to provide additional bin room. The "bug house," for killing weevil is, of course, a separate building. As a precautionary measure, clean seed as well as seed that is affected goes through the same process.

New York Seed Bill Fails.

MARSHALL H. DURYEA writes the AMERICAN FLORIST, June 19, advising that the so called Callan pure seed bill has not been signed by Governor Hughes, consequently no further legislation on same can be accomplished until both houses meet next winter.

Bermuda Onion Seed Crop 1909.

ED. AMERICAN FLORIST:

In my opinion the crop of White Bermuda Crystal Wax onion seed will not entirely fill contract orders. However, prospects to date are fair and little damage need now be expected from disease. The most damage possible is from wind. I believe, however, that a larger percentage will be delivered on advance orders than in 1908. F. C. V.

Teneriffe, May 29.

Red Top Grass Seed.

B. E. Martin, Salem, Ill., writes June 22: Up to this writing we have had ideal weather for the growing crop, and the indications are that we will have a fine yield of seed. Quite a good many meadows were plowed up last spring, having been damaged by the dry weather of last fall. Owing to this shortage in acreage we are not expecting a very much larger yield of seed than we had last year, but I think the quality will be better. The harvest will be somewhat later than last year owing to the cold weather at the beginning of the season.

Kentucky Bluegrass Situation.

The telegraphic reports below indicate the condition of the bluegrass seed crop at various Kentucky points:

Winchester, June 23.—The harvesting is just completed here and the yield is estimated at somewhat less than last year, but 25 per cent greater than the average for the past five years' yield. Both germination and color are considerably injured by frequent rains before and during harvest operations. From 40 cents to 45 cents per bushel is the ruling price for seed from the stripper.

DAVID S. GAY.

Paris, June 23.—The bluegrass harvest is completed with a resulting crop of 60 per cent of last year's. The stocks of old seed are about 65 per cent as compared with the quantity carried at this date in 1908, and prices will be higher than those of last year. Local dealers have bought freely and farmers will pool their holdings.

CHAS. S. BRENT & BRO.

Lexington, June 23.—About 450,000 bushels of seed have been stripped against 615,000 bushels last year. About 150,000 to 200,000 bushels were carried over against 300,000 bushels last year. Much of the seed is dark in color owing to rains.

W. BUSH NELSON.

(OTHER SEED TRADE NOTES ON PAGE 1140.)

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

Allan's Extra Early Peas

While the growing of peas is a simple matter, to maintain a strain of Extra Earlys that keeps its place at the head of the line for earliness, hardiness, productiveness and uniformity, requires constant and intelligent care and watchfulness; and Allan's Early Dexter, introduced years ago and followed later by Allan's Maud S. and Sunol, have ever been and are now in the front rank and acknowledged as such throughout the world where extra early peas are grown.

Allan's Sunol, last on the list but first in quality, is the result of many years of careful propagation by Mr. Allan according to a system entirely his own, for earliness and purity and now stands without a rival. Vines vigorous, sometimes throwing laterals from the base of the stalk, bearing from four to seven pods of good size and shape, containing five to six peas of good flavor. Mr. Allan's special method of culture possesses an extraordinary degree of vitality, having matured a full crop in some sections where before frost had ruined other sorts, thus proving extremely valuable for Market Gardeners in southern states who plant for early market in a season when frosts frequently occur after growth has begun. Undoubtedly the most popular early pea for market gardeners yet introduced.

The John H. Allan Seed Co.
SHEBOYGAN, WIS.

ANNOUNCEMENT

BUSH HILL PARK, ENFIELD, MIDD'X, JUNE 1909.

Dear Sir:—

RE HUGH LOW & CO., (Dissolved)

In consequence of the voluntary dissolution of my late firm, I have much pleasure in informing you that I have taken over the **Royal Nurseries,** with the greater part of the stock. These nurseries were formed by me in 1881, under the instructions of my late father, and since his death I have taken an active part in the direction of the business.

The staff which is transferred, practically intact, includes such well-known men as my representatives: Mr. Harry A. Barnard, Mr. F. W. Ashton and Mr. Laurence J. Cook, Mr. Edward Tack as Orchid specialist and grower, Mr. M. C. Allwood, the enthusiastic Carnation man, Messrs. Moore, Reid and Meades, amongst the roses and fruit trees, and Mr. Phillips in the General Department.

I feel that with such men at my back, clients can rely upon the same care and attention being given to their business as under the old regime.

Esteeming your orders and enquiries. Believe me to be always at your service as heretofore. Obediently yours,

STUART H. LOW.

Please address all communications to **STUART LOW & CO., Bush Hill Park, Enfield, Midd'x.**

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

ASPARAGUS PLUMOSUS NANUS.

Northern greenhouse grown seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,
NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Francis Brill Choice Seeds

—GROWER and DEALER—
Hempstead, L. I.
NEW YORK.

For Gardeners, Truckers and Plant Growers

Long Island Cabbage Seed, Cauliflower, Egg, Pepper, Tomato, Etc.

Price Lists Free. **Quality Finest.** Wholesale and Retai

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors.....⅛-oz. 60c; oz. $4.00
Pure white.....⅛-oz. 75c; oz. 5.00

H. E. FISKE SEED CO.,
Faneuil Hall Square. **BOSTON, MASS.**

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

Seed PANSY Seed

Brown's Extra Select Superb Giant Prize Pansies,

awarded medals wherever exhibited. Flowers are of enormous size; in beauty and color they are incomparable. Giant yellow with dark eye and pure white, in separate colors. New 1909 seed of my own growing.

3,000 seeds	$1 00	1 oz	$ 5 00
¼ oz	1 50	¼ lb	14 00
½ oz	2 50	½ lb	25 00
1 lb	$50 00		

Cash with order.

PETER BROWN, **Lancaster, Pa.**

Mention the American Florist when writing

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

It is not only the number of inquiries, though that counts, but Orders from reliable buyers. Advertise in the Florist.

French Seed Crops.

We have had a protracted, severe winter, followed by a period of very wet weather and a rather warm month of April. May, on the contrary, has been cold, windy and parching throughout, which checked growth and the drought did considerable damage. Growers began to be discouraged when fortunately in the early days of June we were favored with some very good showers which will help along crops a good ideal. However, many articles are expected to be short next fall. This is the case with garden beets, such as Detroit Dark Red, Crosby's Egyptian, Eclipse and Half Long Blood, which are not expected to yield more than from one-half to two-thirds of an average crop. As no stocks at all of them are left from previous seasons, prices are sure to rule pretty high.

Mangels are much better off in France. In Germany many roots seem to have been winter killed.

Celeries suffered considerably during winter in our southern growing district; the plants lack vigor and as there are many gaps in the fields, it is safe not to reckon upon more than one-fifth of the contracts for Paris Golden Self Blanching, one-half or two-thirds for Pascal and Kalamazoo.

The cabbage tribe, including kohlrabis, kales, broccolis and Georgia collard, is so far one of the most promising crops in the south of France. Carrots are very backward and rather weak in growth.

Onions there (in the south) are also pretty satisfactory at present, and plantations rather large, though some show signs of disease; the result of the crop will depend upon the check or spread of that disease. It is hardly safe to prophesy just now how the crop will turn out, but I am afraid the followng sorts, White Portugal, White Globe, Red Wethersfield and Giant Spanish will fall short of the contracts.

Spring radishes in the south are not worth mentioning. In the western growing district they are most disappointing. At the time the rain came, which enabled their transplantation there, the roots had grown too large to insure a good result. Fortunately the prospects are much more favorable around Paris and some other favored locations. Winter and summer radishes in the south will yield very little, some sorts being total failures. In the western district the stand at the present state is better, though some kinds as Large White Summer, Large White Spanish, Large White Russian, Strasburg and Golden Yellow Oval may prove short.

Spinaches were very disappointing until the rains came which improved conditions considerably, but anyhow the harvest will take place later than usual and the yield will not be large.

The area planted to turnips in the leading growing region of western France is rather limited and though the outlook there is not bad, the scarcity of the seed in Germany and the many inquiries from that country will maintain the market for turnip seed steady. White Egg, Purple Top White Globe and Yellow Globe or Amber Globe are liable to fall below contract, as also the Purple Top Strap-leaved.

French AND Dutch Bulbs

Let me figure on your wants.
Low prices for import orders.

Pansy Seed Special

Send for my price list of all choicest
Mammoth Flowering Varieties.

STOKES' SEED STORE,
219 Market St., PHILADELPHIA, PA.

Dearborn Engraving Co.

Designers, Printers & Engravers

1322 Wabash Ave., Chicago.

...Engravers for this Paper.

PANSIES THE JENNINGS STRAIN New Crop Seed now ready. My own saving from finest selected stock. Large flowering in great variety of fancy colors.
Finest mixed, 1 oz., $5.00 3 oz., $12.00; ½ oz., $2.50; pkgs. of 4000 seeds $1.00; ½ pkg., 50 cts.
E. B. JENNINGS, Southport, Conn.
Lock Box 254. Cash with Order.
Grower of the Finest Pansies.

GUERNSEY GROWN BULBS

are unsurpassed for quality, and for forcing purposes, and are much preferable to bulbs grown in colder districts. "Try Them."
Wholesale Catalogues free by post on application.
W. MAUGER & SONS,
GUERNSEY, C. I.

MAPLESHADE
GLADIOLI FARM, KINSMAN, O.
The home of America, Klondyke, Victory, Rose Queen, Royalty and many others.
High Class Hybridized Seedlings.
WILBUR A. CHRISTY, Proprietor.

Lily of the Valley
MANN'S EXCELSIOR
Are the finest in existence and their flowers bring the best prices in the London market.
For quotation please apply to
OTTO MANN, Leipzig, Saxony, Germany

The condition of the rutabagas is about the same as that of the turnips.

Parsleys and parsnips are fairly satisfactory.

The necessary acreage of egg plants has been planted to fill contracts, but there seems to be a deficiency of plants in the fields and we require a little warmer weather than we are now having to develop a good crop.

Flowers in general are rather late and in some cases the plants are weak and diseased, but it is too early to anticipate the outcome.

PARISIAN.

Allan's Admiral Dewey

We wish to call especial attention to our Admiral Dewey Pea which has already taken the front rank in all the list of large podded, long-vined peas, and is today recognized as the best in its class by the leading trade in America, and we have never yet been able to supply the quantity demanded. Remarkably healthy, vigorous and productive, it is almost entirely free from sports, and in that respect is far ahead of any other large podded pea we have ever grown. Pods of the largest size, frequently six inches in length, straight, rounded at the point, deep green in color, and most beautifully shaped, well filled with large peas that are a deep green color and of the richest flavor. We unhesitatingly claim this to be the best pea of all its class. Seed large, green, wrinkled; height, 3½ ft.

No wholesale or retail dealer can well afford to leave out this pea.

The John H. Allan Seed Co.
SHEBOYGAN, WIS.

FISCHER'S
Grand Freesia
Purity
The Unequalled, White Decorative Freesia.
For Sale by the Leading Florists.
Rudolph Fischer
San Gabriel, R. F. D., Calif.

Reliable Seeds, SOW NOW
PRIMULA OBCONICA GRANDIFLORA

	Per 1000 seeds	Tr. pkt.
Blood Red, Fine seller	$1.50	50c
Real Pink, Fine for cut	1.00	50c
Pure White, Fine for cut	1.00	50c
Compacta, Fine potter	1.50	50c
Mixed Hybrids,	1.00	50c

O. V. ZANGEN, Hoboken, N. J.

Telegraph Code
Am. Seed Trade Association
—$2.00—
In either stiff or flexible cover. Address orders
AMERICAN FLORIST CO., CHICAGO.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

NUMBER ONE mushrooms are quoted in Chicago at 35 cents per pound, while in New York they are quoted at $1.

POTATOES to the value of $206,185 were imported into the Philippines in 1908 by far the larger quantity coming from Japan and China, $180,370 and $17,833 respectively.

THE Ontario Department of Agriculture has issued a bulletin on "Insects Affecting Vegetables," by C. J. S. Bethune, that covers the ground very completely and is well worth preserving for reference.

AN exhaustive report by A. McMeans, of the Ontario Agricultural College, Guelph, Ont., appears in the annual report of the Ontario Vegetable Growers' Association. Mr. McMeans last year visited the principal onion growing sections in Illinois, Indiana, Michigan and Ohio, and his report gives many useful cultural hints as well as statistics. It is well illustrated and worthy of perusal and we shall probably have occasion to again refer to it.

Outdoor Notes.

When planning for succession crops of sweet corn, string beans, or peas, always bear in mind that more time is required to finish a crop in the fall months than in the spring. The reason for this is that we have in the fall months no such favorable spells of weather as occur in May or June when plants grow with leaps and bounds. As a rule there is more push and life in the spring; hence, to be on the safe side allow at least 10 days more for the fall crop. There are comparatively few sections where a fall crop of peas can be made; peas do not thrive in hot weather and it is generally given up as a hopeless case. Therefore try it, if at all, on a small scale.

Beans are an excellent succession crop; so are pickling cucumbers. Where green table onions are desired, sow Prizetaker last week in June. They will be nice in October and can be stored like celery for a winter supply. An important point for summer seed sowing is proper firming after sowing. In the spring when rains are frequent and subsoil moisture ample, seeds germinate readily, in the summer this may be all the opposite. We frequently firm with the feet, or with a roller and when drilling with a seed drill at times run a second time over the rows bearing heavily on the roller to ensure proper firming; after that rake or harrow lightly to loosen the top and proper conditions are secured.

Turnips intended for table use should not be sown too early; they get large and woody and unfit for use. If we could control moisture, about August, it would be right for the western states, yet to be on the safe side, sow at least some earlier, say from July 15 to August 1. Celery should go into permanent rows just as soon as the plants are large enough—the sooner the better; nothing is gained by late planting.

MARKETMAN.

Insects and Celery.

Celery, as a rule, is not much affected by injurious insects. The handsome caterpillars of the black swallow-tail butterfly (Papilio noctilus asterias) may often be found eating the foliage, but they are never very numerous and can easily be controlled by handpicking. A small caterpillar called the celery leaf-tyer (Phlyctænia noctilus) is sometimes abundant and injurious; it feeds for the most part at night; when young it eats small holes in the leaves which are hardly noticeable, but as it grows larger it becomes more voracious and consumes a considerable amount of foliage. When fully grown it rolls up a leaf and ties its edges together with silk, forming thus a convenient case in which to pass the chrysalis stage. The moth is about three-fourths of an inch in expanse of wings, pale brown in color, with a reddish suffusion; the wings are marked with irregular cross lines of black and some circular spots. There are at least two broods in the year. The insect is sometimes known as the greenhouse leaf-tyer from its attacking a variety of greenhouse plants; outdoors it by no means confines itself to celery, but may be found on a great variety of vegetables. As soon as the caterpillars are noticed the plants attacked should be sprayed with Paris green, applied to the under side of the leaves. In the greenhouse any infested leaves should be cut off and destroyed. One of the most serious enemies of celery is the rust-fly. The maggots attack the thick part of the roots of young celery plants and prevent their proper growth; they also produce the characteristic rusty blotches on the stems and spoil them for table use.

Prices of Indoor Fruits and Vegetables.

The prices of indoor fruits and vegetables at leading points June 5 were as follows: New York, cucumbers, 50 cents to $2 per dozen; mushrooms, 75 cents to $1.50 per pound; mint, 25 cents per dozen bunches; tomatoes, 10 to 15 cents per pound; grapes, $1 to $2 per pound; cantaloupes, $1 to $2 each; peaches, $6 to $8 per dozen; nectarines, $7 to $10 per dozen. Kansas City, cucumbers, 50 cents to 75 cents per dozen. Cincinnati, cucumbers, 22 to 25 cents per dozen; mushrooms, 40 cents per pound. Boston, cucumbers, $3 to $3.50 per box. Chicago, cucumbers, .60 to $1.50 per dozen; head lettuce, $3 to $6 per bbl.; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 20 to 30 cents per dozen bunches; grapes, Gros Colmar, $.75 to $2 per pound; peaches, $12 per dozen; English melons, $12 per dozen; peppers, 30 to 75 cents per dozen.

NASHVILLE, TENN.—Joe Browne, of the Lischey Nursery and Greenhouses has just finished a large house for roses and planted it to Kaiserin and Carnot. Business has been and continues excellent here.

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The Nursery Trade

American Association of Nurserymen.

C. J. Brown, Rochester, N. Y., President; C. M. Hobbs, Bridgeport, Ind., Vice-President; Geo. C. Seagar, Rochester, N. Y. Sec'y. Thirty fifth annual convention to be held at St. Louis, June 1910.

THE Eucalyptus Tree Co. has been incorporated at Los Angeles, Calif., with capital stock $100,000. C. A. Crissey, T. P. Cartwright and C. S. Gibbs are directors.

JACKSON & PERKINS of Newark, N. Y., invited a number of convention visitors to their nursery at Perkinsville and about 100 accepted the invitation. They were met at Creager's Bridge station and taken to the nursery in rigs.

NEW YORK.—The American Nursery Co. was the lowest bidder on the contract for furnishing and delivering stock for the Metropolitan and City hospital districts, Blackwell's Island in the department of charities. The price was $1,620.97.

H. GREENSMITH, of the Cincinnati parks, made a tour last week of the Chicago parks. He expressed himself as surprised and delighted at the extent and arrangement of the principal parks and as much interested in the herbaceous stock and trees in Jackson and Washington parks.

A VOTE by mail is to be taken by the executive committee of the American Association of Nurserymen to decide finally between St. Louis and Denver for next year's convention. Postals have been sent out and votes have to be in by July 15. The heat usual at St. Louis in June was given as one of the reasons for the change.

CHIONONTHUS VIRGINICA is one of the gems of the shrubbery this week in Jackson park, Chicago, its pretty, white, feathery flowers, from which it gets its name of fringe tree, being at their best. The exochorda (pearl bush) is also pretty and calls forth much admiration from visitors to the rose garden in the wooded island, which is now at its best.

Arthur E. Thatcher.

Arthur E. Thatcher, the new assistant to Jackson Dawson at the Arnold Arboretum, was born in 1882. After graduating from the grammar school he took up his life work of gardening. He has always been greatly interested in hardy trees, shrubs and plants and his experience has been largely along these lines. For several years previous to coming to the arboretum, November, 1908, he was in charge of the hardy plant departments at Aldenham House gardens, one of the celebrated places of England, now the estate of the Hon. Vicary Gibbs, a great lover of and authority on hardy trees and shrubs. Here he had considerable experience in handling the earlier Chinese collections of J. H. Wilson, now in the employ of the arboretum. He assisted in the raising of many new varieties of hardy asters (Michaelmas daisies) pentstemons and other herbaceous plants. He has frequently been a judge at the Holland House shows, London, and at other exhibitions.

Retail Nurserymen's Association.

At the meeting of the Retail Nurserymen's Association held during the recent nursery convention at Rochester, N. Y., the following officers were elected:

Chas. J. Brown, Rochester, N. Y., president.

F. H. Stannard, Ottawa, Kans., vice-president.

Guy A. Bryant, Princeton, Ill., secretary and treasurer.

A. E. Thatcher.

Of the Arnold Arboretum.

American Nurserymen's Protective Ass'n.

At the meeting of the American Nurserymen's Protective Association, held during the recent nursery convention at Rochester, N. Y., the following officers were elected:

J. W. Hill, Des Moines, Ia., president.

W. F. Heikes, Huntsville, Ala., vice-president.

Thos. B. Meehan, Dresher, Pa., secretary.

Peter Youngers, Geneva, Neb., treasurer.

Trees and Shrubs in Rochester, N. Y.

The handsome and showy Deutzia Lemoinei, with its numerous white flower clusters, was in full bloom about June 7, and is still, June 12, in good flower. D. paroiflora, a handsome white flowering shrub, opened its first blossoms on June 5. D. gracilis was in full bloom June 10. Boule de Neige is a form of D. gracilis, with compact showy white flower clusters, now in full bloom. Rosea is another variety of D. gracilis with rosy tinted flowers, and Campanulata is still another hybrid form of D. gracilis with bell-shaped pure white flowers, both of which are now in full bloom. D. discolor grandiflora is just now in glorious bloom. The rose tinted or purplish rose blossoms, about one inch in diameter, and the branches loaded with from 10 to 14 racemes, give it a most showy appearance. It never looked so well before with us. D. kalmæflora has umbels of rose-tinted flattish flowers which are very attractive. It is not, however, very hardy, and is now in full bloom. D. Vilmoriniana has pure white flower clusters, somewhat lax, with the individual blossoms one inch in diameter, and prominent yellow stamens, and is now in bloom.

The red flowering horse chestnut, Æsculus carnea (rubicunda) was in full flower June 7. The loose panicles of reddish flowers are remarkably showy. A. Brioti and A. Plantierensis are forms of A. carnea with deeper reddish blossoms, and are very conspicuous and bloom at the same time. A. turbinata, a handsome horse-chestnut from China, with very beautiful deep green leaves and upright panicles of yellowish white flowers, was in full bloom June 7. A. Pavia (Michauxi), with loose panicles of pinkish red flowers, was in full bloom June 7. A. glabra, with clusters of lemon yellow, or greenish yellow flowers was passing out of flower on June 7. A. Whitleyi is a hybrid form with reddish flowers and was also passing out of flower June 7. It forms a remarkably handsome compact tree, 40 feet in height.

The golden chain, Laburnum vulgare, was in full flower on June 5, and the drooping clusters of yellow flowers presented a rich appearance. L. Parksii (Watereri) was beginning to open its flowers June 7. The drooping clusters of yellow blossoms are much longer than in the former. The pea trees (caraganas) have been variously in bloom from June 1 to June 12. The flowers are varying shades of yellow. Amongst some of them are Caragana grandiflora, C. frutescens, C. pygmæa, C. Chamlagu, C. Redowskii, C. altagana and C. spinosa.

The rare and beautiful Chinese fringe (Chionanthus retusus) was in full bloom June 6. The branches are completely enveloped with the pure white fringe-like flowers. The American white fringe C. Virginica is now coming in flower. The snow wreath (Nevinsia Alabamensis) was in full flower June 7, and is now passing out of bloom. Although a southern shrub, it flowers freely here, and with the exception of a little winter killing of the tips of the branches, it grows and does well with us. Jamesia Americana, with clusters of white deutzia-like blossoms, is now coming in bloom.

Berberis vulgaris, B. Sinensis, B. Amurensis, B. Sieboldi, B. aristata, B. Canadensis and B. Poireti, with variously arranged clusters of differently tinted yellow flowers, have been in bloom since June 1. B. diaphana, a new species, with single large solitary blossoms, was in flower June 5, and is now passing out of flower. It colors beautifully in the fall.

The rose acacia (Robinia hispida) has been in bloom since June 6, and the rose-colored flowers are very pleasing. R. Boyntoni, a new species, blossoms at the same time and produces numerous purplish lilac flowers on last year's growth and is quite distinct. R. Neo-Mexicana is just commencing to open its drooping rose colored flower clusters. Rosa spinosissima Altaica opened its first large single white flowers about June 6, and is now in full bloom. R. pendulina (alpina), with dark single pink flowers, is now in bloom. R. rugosa and R. ferox are now coming in flower.

Lonicera Korolkowii, with pinkish white flowers, came in bloom June 4.

L. floribunda, with distinct greyish green foliage and light pink blossoms, came in flower June 4. L. Ruprechtiana, with flowers at first white, afterwards turning yellowish, was in full bloom June 4. L. spinosa (Alberti), with beautiful rosy pink flowers, was beginning to open its blossoms June 5. The red osier dogwood (Cornus stolonifera) and Bailey's dogwood (C. Baileyi) were in bloom June 1. They produce scattering flower clusters throughout the summer. The alternate dogwood (C. alternifolius) was almost in full flower June 5. This is a remarkably beautiful native small tree. C. pubescens, C. sanguinea, C. circinata and C. Kousa are now coming in flower. C. Kousa resembles our native white flowering dogwood very much in its flowers. The tree, or Moutan peonies, have been in full flower since June 1, and are now almost over. The beauty of some of the blossoms on some recently imported forms from Japan was almost indescribable. JOHN DUNBAR.

Errata.—For Spirea Clauda, in last week's issue, page 1087, read S. blanda. The date of flowers opening on Viburnum tomentosum was also obviously wrong. It should have read May 29.—J. D.

Roses in Fall.

Too often the roses in public and private gardens are strictly summer flowering, giving one glorious display around the middle of June and then only a few straggling flowers the rest of the season. It would be a good idea if some of the rose gardens planted years ago to the hybrid perpetual varieties were torn out after the June display, the soil removed and new substituted; or, if this is impractical, giving a thorough dressing of clean loam and manure, cultivating the beds and borders thoroughly and planting to approved varieties in fall. With many of the roses named below the writer has not had personal experience, and it may be that some at least have been tried and found wanting, but a few thoughts on what he has seen may be acceptable.

The bright red Gruss an Teplitz was last season very beautiful in some of the parks in the middle west right up to the time the plants were cut by frost. It flowered well early in the season, stood the heat well and again in fall put forth a bounteous crop of flowers, its lovely color brightening up the surroundings at a time it was most needed. Pegged-down roses are not acceptable to some people, but where beds have to be kept in track there must be some formality, and if their long shoots are turned down, what a wealth of flower is produced all through the autumn by such grand old roses as Mme. Isaac Perrier, Victor Verdier and Reine Marie Henriette. Then the hardy Dijon teas such as Gloire de Dijon, Mme. Berard, Boquet d'Or and Gloire Lyonnaise are only memories with many of us, yet what a grand display they give in early summer, followed by an autumn sprinkling of lovely flowers. How many of us have given the best attention of late to such beautiful old roses as Aimee Vibert, Souvenir de la Malmaison, William Allen Richardson and others that are at their best in the cool days of autumn?

The rugosa roses are a host in themselves, always beautiful from earliest spring to midwinter and perfectly hardy. Including the new colors there is a great variety to be had, and the effect of the satin-like flowers on the soft green leaves is very fine, to say nothing of the handsome fruits that hang on nearly all winter. The beauty of the rambler, noisette and Wichuriana varieties is taken full advantage of indoors, but they are not sufficiently recognized as beautiful outdoor roses. We believe we are correct in saying that the widespread popularity of Crimson Rambler some years ago did harm to this section, for Crimson Rambler, except in very favorable circumstances, is not a satisfactory outdoor rose. In a moist soil and a semi-shady position it is perfect, both foliage and flowers attaining splendid proportions and color. But in the full sun the foliage is pale green and the color burns out of the flowers almost before they are open. There are doubtless many other fine garden roses that might be rescued from the limbo of half-forgotten things, and if other readers of THE FLORIST would give their experience with them it would prove of great interest to many, including RAMBLER.

MACOMB, ILL.—Charles Wettengel enjoys the distinction of being the largest grower of peonies in this section. He has 10,000 plants in 650 varieties.

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Evergreen Conifers.

Continuation of a paper read by Samuel C. Moon, Morrisville, Pa., at the convention of the American Nurserymen's Association at Rochester, N. Y., June 9-11. (See last issue, page 1094.)

Pseudotsuga Douglasii, the Douglas fir, is described in Veitch's Coniferae as "not only one of the most interesting but also one of the most valuable trees; its size and its capacity for adapting itself to new surroundings contribute to make it one of the most important inhabitants of western America. Its natural distribution through 32° of latitude, from 55° north, near Lake Tacla in British Columbia, to the tropics of Mexico, make it the most widely distributed of all American trees, excepting perhaps the common juniper; it must possess a constitution that enables it to endure the fierce gales and long winters of the north and the nearly perpetual sunshine of the Mexican cordilleras; to thrive in the rain and fog which sweep almost continually along the Pacific coast range and on the arid mountain slopes of the interior where for months every year rain never falls." This great variation of habitat makes evident the importance of cultivating trees from seed grown under environments calculated to engender rugged constitutions and many of the failures which have attended experiments with these trees may very probably be traced to their having originated from seed gathered in localities differing too greatly from those in which their offspring were transplanted. This tree should be widely distributed and planted extensively wherever large fast growing evergreens are needed.

THE JUNIPERS.

Among the junipers there are a dozen varieties that afford means of adding dainty touches of beauty and artistic effect in nooks and corners and limited spaces which larger growing trees would smother or crowd out of sight. Several varieties of Juniperus communis are useful for such purposes, and first among these I would place the Swedish juniper, J. Suecica and its dwarf form, Suecica nana. I consider this a little hardier than the Irish juniper, not quite as tall and rather more compact in habit than that variety; while the dwarf Swedish forms a low round bush about as tall as broad.

J. pyramidalis, with its lighter green or almost glaucous hue, seems to be a little hardier and more robust in habit than the Irish juniper, which is in more general use than any other variety. For a low mass of bright yellow color, no conifer is more effective than the form of J. communis aurea, known as Douglas' golden juniper. As a cover for mounds, embankments and rocky places the trailing forms of J. sabina, variously known as procumbens, prostrata, repens, tamaracifolia, etc., are all useful.

J. Virginica, better known as red cedar, is a common tree in the eastern states, once looked upon with some disdain. Of late its good qualities are being appreciated and it is being used extensively by landscape planters so that there is a large demand and but a limited supply of good trees. I have in mind a certain little group half way up the slope of a steep and stony hillside, where a large Mazzard cherry tree and a red cedar 30 feet high have grown up in such close proximity that the spreading branches of the cherry have half surrounded the cedar's spire, presenting an unusual but charming effect in lawn adornment, and a valuable object lesson in nature's great scheme of contrast and harmony conspicuously attractive when the cherry is bare of foliage and again in spring when shrouded in its mantle of white blossoms, with the dark evergreen in its loving embrace. Such features as this should be preserved and encouraged wherever possible, not only for the beautification of the nearby home, but for the interest which they add to the general landscape to be enjoyed by the traveling public.

CARE IN HANDLING NEEDED.

All the junipers need careful handling when transplanting, and a few moments of careless exposure of roots has caused the loss of many plants and sometimes has given the plants or the nurseryman a bad name. In Iowa, and probably other central states, red cedar makes a large spreading tree quite distinct from the slender columnar form which is most common in the east, but equally as valuable for some forms of ornamental planting.

In Veitch's Coniferae there are 51 pines described as distinct species, besides a score or more of varietal forms with a range of native habitat from the tropical island of Sumatra to the arctic circle. Probably very few of the present company have ever seen more than one-half of this number, and how many of us can identify one dozen species suitable for ornamental planting in our home neighborhood. I confess that I can not.

I do not know how to add another variety to the old standbys, Austriaca, palustris, excelsa, Strobus and sylvestris for large growing species and Cembra and Mughus for smaller forms. Ponderosa is, I believe, inferior to Austriaca, which it resembles, and the eastern species, densiflora and Thunbergii which the Japanese use so extensively and contort into all sorts of fanciful and grotesque shapes, and which are sometimes recommended here, are of doubtful hardiness in the eastern states and likely to be disappointing.

The variableness of arbor-vitæs, the ease with which they are transplanted and their rapidity of development and, withal, their cheapness, render them very useful plants in a great variety of work and the same applies with equal force to the nearly allied group which we know as Retinospora pisifera and its varieties, including the several plumosas and squarrosas. For hedges, large or small, for massing, for fillers and temporary plants in new plantations, few plants can be more useful than these and with proper attention by occasional shearing, handsome lawn specimens can be developed and maintained, but without occasional shearing the retinosporas are apt to become open and ragged after 10 or 15 years. Although Retinospora obtusa does not transplant quite as easily as R. pisifera it is an excellent tree and R. obtusa nana is one of the choicest small conifers in cultivation. Both of these should be seen much more frequently than they are.

For yellow foliage in creating color effects Geo. Peabody arbor-vitæ, Retinospora pisifera aurea, plumosa aurea, plumosa sulfurea, obtusa nana aurea and filifera aurea are unsurpassed in brilliancy and constancy of color—and if we add Juniperus communis aurea and Taxus baccata aurea we have the cream of the hardy golden conifers.

No list of choice conifers would be complete without mention of that rare relic of the remote past "the sole survivor of a phase of vegetation long since extinct" Sciadopitys verticillata, the umbrella pine of Japan—somewhere spoken of as "the most beautiful of pines." With every tree virtue to its credit and with no demerits, it should occupy a prominent position in every lawn and garden good enough to be worthy of its society. Scarcity is the only drawback to its more general planting. If these remarks suggest to any mind a desire for further development of the house comfortable and the country beautiful by increased planting of evergreen conifers—they will have accomplished their purpose.

LEBANON, ORE.—At a flower show recently held here the judges were C. W. Taylor, of Portland; Mrs. McDonald, of Scio; Mrs. McTimmonds, of Sodaville, G. L. Allen and Mrs. William Quithol of this city.

OMAHA, NEB.—Miss Cassie M. Arnold, who has had charge of J. W. & E. E. Arnold's store at 207 South Sixteenth street, will be married in Trinity cathedral on June 23 to Elmo J. Dowdall of Chicago. They will make their future home in Chicago.

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OWN ROOT ROSE PLANTS.

5.000 **Kaiserin,** 3-inch	$4 00	per 100
5,000 **Maids,** 2 1-2-inch	3 00	per 100

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** Office and Store: 76 Wabash Ave., CHICAGO

AMERICAN BEAUTY

$3.00 per 100; $25.00 per 1000.

Strong, clean, healthy plants from benches. **We need the space. Hence our offer.**

J. A. BUDLONG

37-39 E. Randolph St., **CHICAGO.**

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS**
CARNATIONS, for fall delivery. **SMILAX. VIOLETS**

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Roses == Sold

Except H. P's, H. Cl's, Mosses, and M. Niel. New crops coming along finely.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO

ROSES

	Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2¼-in.	5 00	45 00
Perle, Fine, strong, 2½-in.	5 00	45 00
Richmond, Fine, strong 2½-in.	5 00	45 00

	Per 100	1000
Bride,	$ 5 00	$ 45 00
Maid,	5 00	45 00
Potter Palmer, 2½-in.	5 00	45 00
Kaiserin, 3½-in.	6 50	55 00
Uncle John, Fine strong, 2½-in.	4 00	35 00
Killarney, Fine, strong, 2½-in.	5 50	
" 3½-in.	7 50	

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia** and **October Frost,** the early yellow and the early white, exceptionally fine, ready now. R. C $2 50 per 100, $20 00 per 1000; 2½-in., $3 00 per 100, $25 00 per 1000

No more Virginia Poehlmann until July 2, only R. C.

For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in. $4 00 per 100; $35 00 per 1000
Smilax, 3-in. 4 00 per 100; 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash. Terms: 30 days net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., Morton Grove, Ill.

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond, Rose pots, $15.00 per 100; 3½-in. pots, $18.00 per 100. Brides, Bridesmaids, Golden Gates, Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle, 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

OWN ROOT ROSES

To close out, we offer this stock at a low price. Every plant we have on hand is clean and vigorous. For immediate benching this stock will be found just right. It is not yellow or mildewed.

Killarney, Richmond, Chatenay Mrs. Potter Palmer, Bride and Bridesmaid,

3-in. pots ready for 4-in. $5.00 per 100; $40.00 per 1000 **Brides and Bridesmaids** 2½-in. pots, $4.00 per 100; $35 00 per 1000.

S. J. REUTER & SON, Inc.,

WESTERLY, R. I.

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$4 00	$35 00
Brides, grafted	4 00	35 00
Maids, grafted	4 00	35 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	$4 00	$35 00
Smilax	2 50	20 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,

WEST GROVE, PA.

Its "The Paper."

ED. AMERICAN FLORIST:—

Enclosed please find my check for one year's subscription to THE FLORIST—the valuable paper for the trade. Having resigned the position of florist and landscape gardener at Carlisle, (Pa.) Indian school. I am now in business again at Miles avenue, Cleveland, O., having taken possession of the place June 1. R. HOFFMAN.

MARSHALLTOWN, IA.—Welter & Co., 1104 West Church street, are planning a substantial improvement to their plant by the addition of a new greenhouse 52x150 feet. Dennis Milan, of Grand Forks, N. D., has entered the old firm of Welter & Kraus. The new firm expects to go into the business on an extensive scale, specializing in raising vegetables during the winter months.

COLORADO SPRINGS, COLO.—The damage by the hailstorm to florists' establishments June 11 has been estimated at $25,000.

Stock You Need Right Now

Phoenix Canariensis

A very desirable palm for the center of vases or for porch decorations. It will stand the sun better than any other palm. Price, for 8-in. tubs, 34 to 36-in. high, 12 to 14 leaves, $2.50 each.

Dracena Indivisa

This most useful plant is always in great demand in spring. Better secure your stock now. Fine plants in the following sizes and prices:

6-in.....	$ 5.00 per doz.	8-in.....	$ 9.00 per doz.
7-in.....	7.00 per doz.	9-in.....	12.00 per doz.

Bedding Stock

	Per 100
Geraniums, Nutt and Bruant, 4-in.	$7 00
Begonia Vernon, 2-in.	2 50
Cobea Scandens, 4-in.	6 00
Caladium Esculentum, 6-in.	8 00
Lobelia, blue, 2-in	2 50
Ageratum, 4-in.	6 00
Vincas, Var., 4-in., short	8 00
Ivy, English, 4-in.	12 00
" German, 2½-in.	3 00
Nasturtiums, 2½-in.	2 00
Castor Beans, 4-in.	6 00
Bananas, 4-in.	8 00
Pansies	2 00
Daisies, Bellis	2 00

Cannas

	Per 100
Chas. Henderson, green, 4-in.	$6 00
Discolor, bronze leaf, 4-in.	6 00
L. Patry, green, 4-in.	6 00
President Cleveland, green, 4-in.	6 00
Souv. de Ant. Crozy, 4-in	6 00
Mixed lot, 4-in.	5 00

Asparagus Sprengeri Baskets

Size 10-in., and nicely furnished. Price, $12.00 per doz.

Asparagus Sprengeri

Price, 3-in. pots, 75c per doz., $6 00 per 100; 4-in. pots, $1.50 per doz.; $12.00 per 100.

Hardy Herbaceous Plants

We have on hand an assortment of Perennials in pots, as quoted below, which can be shipped at any time. When planted from the pots they are sure to grow.

	Doz.	100
Achillea Ptarmica (the Pearl)	$1 00	$7 00
Chrysanthemum Maximum, (Shasta Daisy)	1 50	10 00
Delphinium Azureum (Larkspur, white)	1 00	7 00
" Chinensis, (Blue)	1 00	7 00
" Formosum (Larkspur)	1 00	7 00
Dianthus Barbatus, (Double Sweet William)	1 00	7 00
Dianthus Chinensis (Garden Pink)	1 00	7 00
Lobelia Cardinalis	1 00	7 00
Lychnis Chalcedonica, (Jerusalem Cross)	1 00	7 00
Myosotis Palustris, (True Forget-Me-Nots)	1 00	7 00
Rudbeckia Triloba	1 00	8 00
Veronica	1 00	7 00
Yucca Filamentosa, (Adam's Needle) 2-in. pots		2 00

end for complete price list of Decorative Plants, Hardy Trees, Shrubs and Herbaceous Stock.

Boston Fern Baskets

We have a nice lot of 10-in. baskets, nicely started. Price, $1.00 each or $12.00 per doz.

Adiantum Cuneatum

3-inch.....$1 00 per doz.; $ 8.00 per 100
4-inch..... 1.50 per doz.; 12.00 per 100

Roses

Crimson Rambler, 5-in. pots, $2.00 per doz.
" " 6 in. pots, 3 00 per doz.
Hybrid Perpetual Roses in pots, $2.00 per doz.

Aucuba Japonica Punctata

The Aucuba is especially useful for porch or garden decorations. Price for large plants, about 4 feet, planted in common tubs $3.00 each.
The same, planted in square mission tubs, $5.00 each.

Bay Trees

	Per pair
12-in. tubs, 26-in. stem, 18-in. crown, height from top of tub, 46 in	$12 00
14-in. tubs, 46 in. stem, 24-in. crown height from top of tub 64 in	15 00
18-in. tubs, 48-in. stem, 30-in. crown, height from top of tub, 78 in	20 00
18-in. tubs 48-in stem, 36-in. crown, height from top of tub, 80 in	25 00

Climbing Plants

Clematis, Jackmani 6 in. pots, 35c ea.; $4 per doz.
" Queen, 6-in. pots 35c ea.; $4 per doz.
" Romeona 6-in. pots 35c ea.; $4 per doz.
" Paniculata, 2-yr. 25c ea $2.50 per doz.

Globe Boxwoods

We have a limited stock of these Globe boxwoods. They are a perfectly round ball, with no stem. They are most admirably suited for ledges or porches or any other place where formal effect is desired.

Price, in square mission tubs, $6 each.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago.

Order of the White Carnation.

Collector Loeb at New York denied recently that he had broken up the order of the white carnation alleged to exist among the customs inspectors boarding incoming steamships at quarantine. The story sent from Washington was to the effect that certain members of the inspectors' corps were in the habit of wearing at all seasons white carnations. The further allegation was made that regular travelers on steamers arriving at this port recognized inspectors wearing the carnation as "safe" persons to examine baggage. Men so decorated, it was said, could be relied on to be "reasonable" in their appraisements of the goods, thereby imposing the minimum of duties. While Mr. Loeb denied that he had discouraged the wearing of carnations, it is a fact that they have become unpopular suddenly.—New York Commercial.

RICHMOND, IND.—After seven years of effort C. Knopf of the Knopf Floral Co. has completed the construction of a steel railroad tie and fastening and has been granted a patent on his invention by the government. If the invention proves as practical in the test, as he believes it will, there is no reason why it should not almost revolutionize the railway tie conditions. Several financiers and expert railroad men have viewed the device and pronounce it very good in theory, providing it holds up in practical demonstration. Mr. Knopf's attorneys at Chicago are now arranging for a test to be made of the invention.

Killarney Bench Plants

Grafted, 2 Years Old. Price: $50.00 per 1000.

READY FOR IMMEDIATE SHIPMENT.

These plants will make fine stock for replanting in the benches.

BASSETT & WASHBURN

Greenhouses: HINSDALE, ILL.

Office and Store: 76 Wabash Ave., CHICAGO

Mention the American Florist when writing

Primroses

	Per 100
Chinese and **Forbesi,** July 15	$2.00
Ob. Grandiflora, Alba and Rosea	2.00
" " Gigantea and Kermesina	3.00
Smilax	1.25

Asparagus

	Per 100
Plumosus, July 10	$2.00
Sprengeri, ready Aug. 1	2.00

Pansy Seed

Giant flowering, new crop, per oz., 4.00

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

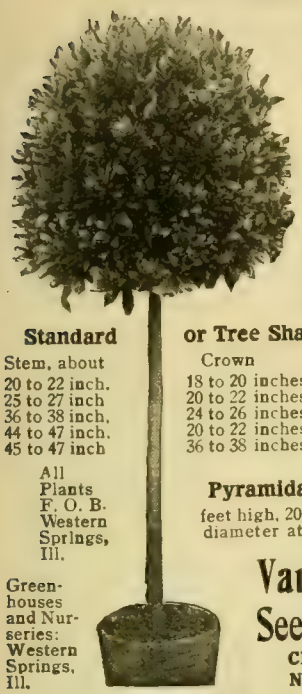
Mention the American Florist when writing

NASHVILLE, TENN.—Geny Bros. are erecting three new rose houses, each 25x185 feet, to be planted to My Maryland and Killarney. They are also building a propagating house.

KOKOMO, IND.—Lincoln A. Coles, son of W. W. Coles, will be married June 30 to Miss Miriam Kitchen Young of this town. After a short trip they will be at their new home.

BAY TREES

(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard

Stem, about
20 to 22 inch.
25 to 27 inch
36 to 38 inch.
44 to 47 inch.
45 to 47 inch

or Tree Shaped.

Crown	Each
18 to 20 inches	$ 4 00
20 to 22 inches	4 50
24 to 26 inches	6 00
20 to 22 inches	6 00
36 to 38 inches	12 00

Pyramidal Shaped.

feet high, 20 to 22-in. diameter at base....$ 7 50

All Plants F. O. B. Western Springs, Ill.

Greenhouses and Nurseries: Western Springs, Ill.

Vaughan's Seed Store,
CHICAGO.
NEW YORK.

GERANIUMS

ARE OUR SPECIALTY.

We are preparing to grow Geraniums on quite an extensive scale for the next season; and claim to have the largest and most complete collection in the country, and are making very interesting Special Prices for November and December delivery. Write us about your probable requirement and we will convince you that it is more to your advantage to buy just the kinds you want in the fall than to bother with saving a few stock plants and working up stock yourself.

We have ready for shipment about 250,000 in 2 and 3-in. pots which would make fine stock for fall and Christmas sales. A splendid collection of singles for winter blooming at $2.00 per 100; $18.50 per 1000.

If you want to stock up now we will send you 1000; 50 each of 20 distinct kinds, our selection for $18.50 which we are confident would please you in every way.

Novelties: We now offer one each of 100 varieties, 1907 and 1908 novelties, good stocky plants from 3-in. pots for $10.00. This collection should represent the highest developement in Geraniums to date, as they come from the foremost introducers of the world.

——Cash with order.——

R. Vincent, Jr., & Sons Co., White Marsh, Md.

MARY TOLMAN

A new light salmon pink carnation for 1910.

$12.00 per 100. **$100.00 per 1000.**

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. **HUNT BROS., Park Ridge, Ill.**

SANGAMO

New, brilliant, glistening pink carnation for 1910.

$12.00 per 100. **$100.00 per 1000.**

A. C. BROWN,
Springfield, Ill.

CHICAGO CARNATION CO.
Joliet, Ill.

Whitmani Ferns

Strong, 2½-in., $ 3.00 per 100;
25.00 per 1000.
4-in., 8 fronds, $10.00 per 100.

JOHN A. DOYLE
Springfield, Ohio.

A New Seedling Carnation :: :: :: Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

To Close Out

500 Asparagus Sprengeri,
200 Asparagus Tenuissimus,
from 4-inch pots, **$5.00** per **100.**

FERNS, BOSTON and PIERSONI
Mixed from 2½-inch pots,
$2.50 per 100.

ELMER D. SMITH & CO.,
ADRIAN, MICH.

Chrysanthemums.

To Close Out for Bench Room.

	Per 100		Per 100
Oct. Frost	$1 00	Col. Appleton	1 00
J. Nonin	1 00	Y. Bonnaffon	1 00
Touset	1 00	Intensity	1 00
W. Bonnaffon	1 00	M. Dean	1 00

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00

N. C. MOORE & CO., **Morton Grove, Ill.**

LAST CALL FOR 'MUMS

for Early Planting.

SEE PRICES ON THESE NOVELTIES:

	Per 1000
10,000 **Golden Glow, Pacific Supreme, White Cloud,** 2½-inch	$25 00
R C	18 00
5,000 **October Frost,** 2½-in	20 00
R. C	12 00
After June 15 a limited quantity of **Virginia Poehlmann** at $4 00 per 100. Order now.	
1000 **Golden Eagle,** new yellow $5 00 per 100	
All Standards, midseason and late. 2½-in	20 00
R. C	12 00

Write for our prices on big lots.
Can't be beat. 200 at 1000 rates.

I. M. RAYNER, **Greenport, N. Y.**

'MUMS, From 2 and 3-inch Pots.

Touset, Dr. Enguehard Pacific, Estelle, pink and white; yellow and white Jones, Duckham, Pompons Mrs. Beu and Diana.
About 5000 in lot. Cheap to close them out.

2c each. Cash with order.

MRS. A. M. SCHAFER, 229 Balmoral Ave., **Chicago.**

New Carnation Lucille

White, overlaid with Pink.
Will bring you bigger returns.

Try it and be convinced that it is a money maker.
$12.00 per 100; $100.00 per 1000.

A. F. LONGREN, **Des Plaines, Ill.**

PITTSBURG, PA.—A head of President William H. Taft is the latest floral decoration designed by James Moore, superintendent of the North Side parks. The flower bed, made in the likeness of the chief executive of the United States, is on a hillock in West park, facing Lake Elizabeth, and has attracted considerable attention. The head is made of echeverias, while the background is formed of different varieties of alternanthera. Below the head are the words, "Our President," also in echeverias.

ORCHIDS

The following freshly imported ORCHIDS have arrived in excellent condition. Prices here quoted are for this month only.

	Per doz.	Per 100
CATTLEYA Trianæ, plants with 6 to 8 bulbs.	$15.00	$100.00
Plants with 9 to 12 bulbs	20.00	150.00
Or in case lots of 400 bulbs, $45.00.		
C. Percivaliana, plants with 10 to 12 bulbs	15.00	100.00
Or in case lots of 450 bulbs, $48.00.		
C. Mossiæ, fine early-flowering type, exceptionally fine, strong stock. Plants with 6 to 8 bulbs	15.00	100.00
Plants with 9 to 12 bulbs	20.00	150.00
Or in case lots of 400 bulbs, $48.00.		
C. Mendelii, plants with 6 to 8 bulbs	20.00	150.00
Plants with 9 to 12 bulbs	30.00	200.00
Or in case lots of 400 bulbs, $75.00.		
C. Skinneri, plants with 8 to 10 bulbs	15.00	
BRASSAVOLA Digbyana, plants with 5 to 6 bulbs, $9.00 per doz; $60.00 per 100.		
Plants with 7 to 10 bulbs	12.00	
EPIDENDRUM Vitellinum Majus, plants with 8 to 9 bulbs	7.50	50.00
LAELIA Superbiens, plants with 4 to 6 bulbs.	24.00	
L. Anceps, plants with 8 to 9 bulbs	8.00	60.00
Plants with 10 to 12 bulbs	10.00	75.00
Plants with 13 to 15 bulbs	15.00	110.00
L. Autumnalis, plants with 5 to 6 bulbs	10.00	75.00
Plants with 7 to 9 bulbs	12.00	90.00
L. Albida, plants with 6 to 7 bulbs	7.50	50.00
Plants with 8 to 10 bulbs	12.00	75.00
CHYSIS Species. A limited number only.		
Plants with 6 to 9 bulbs	9.00	
ONCIDIUM Varicosum Rogersii. All smaller sizes of these are sold. Those we offer are only extra strong plants, with 5 to 8 bulbs	24.00	175.00
O. Crispum, large plants only, with 7 to 8 bulbs	24.00	
With 9 to 11 bulbs	36.00	
O. Forbesii, plants with 5 to 8 bulbs	20.00	
O. Sarcodes, plants with 5 to 8 bulbs	20.00	
O. Splendidum, extra fine, even stock, with 4 to 5 heavy bulbs	18.00	125.00
O. Wentworthianum, plants with 6 to 10 bulbs.	$18.00	
ODONTOGLOSSUM Grande, extra fine plants, with 7 to 8 bulbs	18.00	
O. Crispum, Peck's type, plants with 4 to 5 bulbs.	15.00	
With 6 to 7 bulbs	24.00	
MILTONIA Candida, superb plants, with 6 to 8 bulbs	15.00	$100.00
With 9 to 12 bulbs	20.00	150.00
M. Spectabilis, fine plants, $1.00, $2.00 and $3.00 each.		
M. Flavescens, fine plants, $2.00 and $3.00 each.		
ZYGOPETALUM Crinitum, a few nice plants, $2.50 each.		
Z. Maxillare var. **Gautieri,** on fern stumps, large clumps, $5.00 and $7.50 each.		
SCUTICARIA Steelii, fine plants, $2.00 each.		
VANDA Cœrulea, fine, well-leaved plants, about 12 in. long	18.00	125.00
About 16 to 18 in. long	24.00	175.00
ONCIDIUM Incurvum, fine, well-leaved plants, with 9 to 12 bulbs	12.00	90.00
DENDROBIUM Formosum Giganteum. This is the finest lot of plants ever arrived here.		
Plants with 6 to 8 bulbs	18.00	125.00
Plants with 9 to 12 bulbs	30.00	200.00
Plants with 13 to 15 bulbs	36.00	275.00
Plants with 16 to 20 bulbs, $5.00 each.		
D. Nobile, plants with 9 to 10 bulbs	12.00	90.00
Plants with 12 to 15 bulbs	18.00	125.00
Plants with 16 to 20 bulbs	24.00	
Plants with 21 to 25 bulbs	36.00	
Large specimens, $5.00, $7.50 and $10.00 each.		

All of the above is in A-1 condition; if anything does not prove to be as here represented, return at once at our expense.

We also have a large stock of established orchids; also materials, such as selected orchid peat, live sphagnum moss and orchid baskets.

If you do not have our Catalogue, write us.

LAGER & HURRELL, Orchid Growers and Importers, **Summit, N. J.**

Mt. Kisco, N.Y.

The exhibition of the Westchester County Horticultural and Agricultural Society opened in the opera house June 18 and was continued Saturday and Sunday. There was a splendid display of roses, strawberries and perennial flowers. H. A. Spavins worked very hard to make the exhibition the success that it was and is entitled to great credit for his decoration of the exhibition hall. There was a particularly noteworthy display in the peony class. The second prize exhibit was remarkable in that 50 varieties of the finest peonies were exhibited, all correctly named, but, unfortunately, the flowers were a little past their best. A collection of pressed native flowers, exhibited by Chas. Hilderbrandt, gardener to Senator Agnew, was of much interest. The premium list was as follows:

Collection of hardy perpetual roses:—C. Whitman (W. Wills, gardener), first; J. Borden Harriman (M. J. O'Brien, gardener) second.

Hybrid tea roses:—Chas. Whitman, first; Moses Taylor, Esq. (R. W. Beatty, gardener), second; Hon. Seth Low (Hugh Birch, gardener), third.

Vase of 12 roses in variety:—J. D. Laying (David Francis, gardener), first.

Vase of 12 roses white:—Col. Jay (A. L. Marshall, gardener), first; Hon. Seth Low, second.

Vase of 12 crimson roses:—Moses Taylor, first; Col. Jay, second.

Collection of Peonies:—W. Cowdin (Matthew Rall, gardener), first; C. Whitman, second.

Collection of hardy perennials:—J. Borden Harriman, first; C. Whitman, second.

The society is all alive and will hold another exhibition in the autumn in addition to the chrysanthemum show. The work of the various members is increasing the interest of a great many amateurs in that locality. The judges, who gave complete satisfaction, were Harry A. Bunyard of New York and Robt. Angus of Tarrytown.

BRATTLEBORO, VT.—R. H. Messenger, who had charge of the Bradley greenhouses, has severed his connections here and has accepted a position as gardener to C. W. Dunham.

Splendid Plants. **ORCHIDS** Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas: Labiata, Mendelii, Mossiae, Gigas, Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Mountain Fastness to Grower. Send for Prices.

G. L. FREEMAN, 388 Appleton St., **Holyoke, Mass.**

HEACOCK'S PALMS.

Kentia Belmoreana

6-in. pot, 22 to 24 in. high	$1 00 each
6-in. pot, 24 to 26-in. high	1 25 each
6-in. pot, 26 to 28-in. high	1 50 each
9-in. tub, 42 to 48-in. high	5 00 each

Made-up Kentia Forsteriana.

9-in. tub, 4 plants, 42 to 48-in. high	$ 4 00 each
12-in. tub, 4 plants, 6-ft. high, heavy	15 00 each
12-in. tub, 4 plants, 6 to 8 ft., heavy	20 00 each

JOSEPH HEACOCK CO., **WYNCOTE, PA.**

BAY TREES.

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS Cattleya Trianae, **C. Gigas** and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

Vincas

	Per 100
Extra strong 4 in	$10 00
" " 5-in	15 00
Dracena Ind., 4-in	10 00
Smilax, 2-in	2 25
Geraniums, S. A. Nutt, 3-in	4 00

A fine lot of transplanted **Asters,** all colors and varieties, $5 00 per 1000.

F. C. RIEBE, Florist, **Webster, Mass**

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1 235 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

Just arrived, the following:—C. Labiata, C. Mossiæ, C. Mendelii, C. Harrisoniæ, C. Granulosa, C. Dowiana Dend. Nobile, D Wardianum, D. Formosum Giganteum, D. Thrysiflorum, Oncidium Varicosum Rogersi Oncid Phymatochilum, Burlingtonia Fragrans. To arrive shortly: C. Trianæ, C. Percivaliana C. Gaskelliana C Schroederæ.

CARRILLO & BALDWIN, Secaucus, N. J.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Send Your Advertisements Early.

IT'S TIME NOW

To Order Your Fall Bulbs.

Our Booklet

"Money in Bulbs"

Is worth consulting before you buy. **Let's send you one.**

C. C. Pollworth Co.
Milwaukee, Wis.

Plant Poisons.

Among the most remarkable of the occasional constituents of plants are those substances known to chemists as cyanogenetic glucosides. These glucosides are complex substances, which split up readily into a sugar (glucose) and other compounds, among which is the highly poisonous prussic acid. Inasmuch as such glucosides occur in various fodder plants, it is not surprising that instances of poisoning occur occasionally among cattle which have fed upon sorghum, millet, etc. Within the past few years three new cyanogenetic glucosides have been isolated from plant tissues, viz., sambunigrin from the leaves of the common elder (Sambucus nigra); prulaurasin, from the leaves of the cherry-laurel (Prunus laurocerasus), and amygdonitrile glucoside from the young twigs of Prunus Padus, and more recently from the bark of the wild cherry (Prunus serotina). The last-mentioned glucoside is peculiarly interesting, inasmuch as it is a constituent of amygdalin, the active principle of bitter almonds, and was, indeed, prepared from amygdalin in the laboratory in 1895, 12 years before its discovery as a natural product of plants. The work of the chemists in isolating and examining the constituents of plants must lead ultimately to the goal so much desired of botanists, the discovery of the chemical course of events whereby the inorganic nitrogen taken in by the plant in the form of nitrates is built up into organic nitrogen.—Gardeners' Chronicle.

PEKIN, ILL.—Geo. A. Kuhl sent a magnificent bouquet of La France roses to the Methodist church on the occasion of the recent revival services.

FREEPORT, ILL.—The Freeport Floral Co. has been incorporated with capital stock $25,000, divided into 250 shares of $100 each, to do a general greenhouse, nursery, seed and truck business. The following are the officers: Dr. D. C. L. Mease, president; W. N. Conkrite, vice-president; Louis Bauscher, secretary and general manager. New buildings are under way.

LOOK! LOOK! LOOK! A big stock of

Surplus Bedding Plants

Larger and better than ever before, to make room to place our large importations of Palms, Araucarias, Rubbers, Ferns, etc. **Must Go at Very Low Prices.**

	Per 100
Geraniums, 4 in., Alphonse Ricard large, double, dark red one of the best; Jean Viaud double pink; S. A. Nutt: Berthe de Presilly, one of the best, double, pink; Poitevine, Ivy-leaved and other varieties	$7 00
Cannas, King Humbert, 4 in	10 00
" Bismarck, Barrett, Poitevine, Black Beauty, Henderson, Austria, 4 in	7 00
Dracena Indivisa, broad-leaved, imported stock, big plants	50c to 75c each
Scarlet Sage (or Salvia), the true Clara Bedman or Bonfire, 4-in. pots	7 00
Ageratum, best blue, dwarf varieties, 4-in., in bloom	7 00
3-in. pots	3 00
Heliotrope, best blue, dwarf varieties 4 in in bloom	7 00
Begonia Vernon, newest strain, the so well known dark variety; in many instances takes the place of Geraniums, etc., 4-in pots	7 00
Begonia Flambeau, or Octavie, sells on sight, valuable for window boxes and vases; their fine waxy foliage gives them a beautiful appearance, 5¼-in. pots	$2 00 per doz.
Fuchsias, in bloom, 4 in	7 00
Lantanas, 3-in	4 00
Nasturtiums, assorted, 4 in	6 00
Stock, German Ten Week	7 00
Vinca Variegata (Periwinkle), 4 in	12 00
SMALL PLANTS.	
Petunias, California Giant, 3 in. pots	4 00
" Inimitable (dwarf) 2½ in	3 00
Verbenas, assorted, in bud, 2½ in	3 00
Coleus, Verschaffeltii, Golden Bedder and Queen Victoria, 2½ in. pots	3 00
Coleus, fancy leaved, 2½-in	4 00
Tagetes, or French Marigold 3-in	3 00
Centaurea Gymnocarpa or Dusty Miller 2½ in	3 00
Parlor or **German Ivy,** 2½ in	3 00
Lobelia Compacta, Trailing and Crystal Palace Blue	3 00
Lobelia, newest, double, Kathleen Mallard, 3 in	5 00
Kenilworth Ivy, 2½ in	3 00
Tradescantia, two best colors, 2½-in	$3 00
Thunbergia or Black Eyed Susan, 2½ in	3 00
Mignonette, 4-in., for benches	5 00
Asparagus Plumosus, 2½ in. $25 00 per 1000	3 00
" " 3-in	4 00
Cuphea or Cigar Plant, 2½-in	3 00
Vinca Variegata (Periwinkle), 4-in	10 00
" " " 3½-in	7 00
" " " 3 in.	$4 00 to 5 00
Cosmos, 4 best early varieties, made up 3 plants in a pot	4 00
Summer Chrysanthemums, 3 to 4-in. pots	5 00
Asters, Victoria German 5 best sorts	3 00
Dianthus Chinensis, pink, 2½-in., 3c each.	

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants **Araucaria Robusta Compacta, Glauca and Excelsa.** ☞ Florists, bear in mind there is no garden lawn or porch, etc., in the summer that is complete without the Araucarias: therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria. Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in high, same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa, 3-4-5 year old 5-6-7 tiers, 6-in. pots, 20-25-30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation, 40c-50c. Can meet all applications.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c, to 30c

Kentia Belmoreana and **Forsteriana,** big plants, only $1.25, $1.50, $2.00 each.

Moonvine, Moonvine, Aschmann's world-wide known and celebrated **Moonvine** (Ipomœa Noctiflora). Price: 4-in. pots, $12.00 per 100; 3-in., $8.00 per 100; 2½-in., $5.00 per 100.

Honeysuckle, large, 6-in., 50c.

Solanum or Jerusalem Cherries (Multiflorum), 2 plants in a pot; newest improved strain; large berries and plenty of them 5.00 per 100.

Rose Bushes from cold frames (not in bloom), Crimson Rambler, D. Perkins, Lady Gay, 5½ to 6-in. pots, 25c to 30c each.

Ampelopsis Veitchi, 4 in. pots (small size) 10c.

Adiantum Hybridum, large plants, fit for 7-8 in pots, 35c, 40c and 50c.

10 at 100 rates. Please state if in or out of pots. All goods must travel at purchaser's risk only. Cash with order, please.

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Importer, Wholesale Grower and Shipper of Pot Plants.

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Strong, thrifty plants in 3½-in. pots.

Bride, Bridesmaid, Kaiserin, Richmond, Chatenay,

$12.00 per 100.

Rhea Reid and Mrs. Jardine,

$20.00 per 100.

Jackson & Perkins Co.
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ROSES --- Own Root

Brides, Maids, Richmond, Perles and Chatenay

4-in. $8.00 per 100; $75.00 per 1000.

My Maryland, Mrs. Jardine, Rhea Reid and Queen Beatrice

4-inch $12.00 per 1000. No better stock on the market.

Grafted Plants, 4-inch

My Maryland, Golden Gate, Mrs. Jardine Rhea Reid, $20.00 per 1000.

'MUMS

Sure, that's our middle name. All you want at $3.00 per 100; $25.00 per 1000, 2½-in. pots.

Asparagus Plumosus and Sprengeri

Fine year old plants, from the bench $8.00 per 100; $75.00 per 1000.

CHARLES H. TOTTY, Madison, N. J.

H. N. BRUNS,
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LILY OF THE VALLEY.

Montreal.

JUNE TRADE GOOD.

The sale of bedding plants is about over, although some orders from out of town are still coming in; usually these late orders are of the larger size and often the florist is left to use his own judgment as to variety and price, and this often gives him an opportunity of clearing up some surplus left over. Bedding plants this year sold very well; there was not more grown than last year, but they probably sold out cleaner than last year. There was an attempt at the beginning to undersell last year's prices, but it soon was realized that stock would not last long even at the old prices. The retailers are doing a good business with the June brides; a large number of decorations have been ordered and there are good prospects of many more. There is hardly a wedding nowadays where there are not some sort of flowers used or a few plants for decoration.

NOTES.

The annual picnic of the Gardeners and Florists' Club will be held at the grounds of the MacDonald college of St. Anne de Bellevue. The management of the college has assured the club that their extensive grounds are open to it and that the members are quite welcome. This will give a number of members the opportunity of viewing that institution.

A hailstorm June 5 did considerable damage to Joseph Bennett's greenhouses at Lachine, breaking over 1,500 squares of glass, doing damage estimated at $600.

Tim Martel, landscape gardener, will double his working force in order to execute rapidly the large amount of work on hand.

Deguire Bros., vegetable growers under glass, Cotes des Neiges, will build three large houses for vegetables this summer.

Miss Eva McKenna, daughter of James McKenna, will be married on Tuesday next.

Hall & Robinson, Outremont, will build a small house for violets this season. LUCK.

Madison, N. J.

The June meeting of the Morris County Gardeners' and Florists' Society was devoted to revising the schedule for the annual flower show which is to be held in the assembly rooms October 27 and 28. Some special prizes are yet to be placed which will delay the schedule a few days, but there is plenty of time, there being no meetings in July or August. The next meeting will be in September, when the schedule will be ready for distribution. Robt. D. Foote of Morristown, a staunch friend of the society, offers a special prize of $25 for the best vase of carnations, any variety (undisseminated varieties barred), 25 flowers, open to all. This ought to bring out a lot of competition. Another friend offers $25 for three vases of chrysanthemums, six flowers in each. Varieties, O. H. Kahn, Merza and Wm. Duckham. Dr. D. H. McAlpine of Morris Plains offers a prize of $25, which will be in a special class. The doctor is one of our most enthusiastic supporters. A silver cup, value $25, from another source, is yet to be placed in a special class.

These are only a few of the many prizes and are enough to indicate that the interest in the fourteenth annual show is as keen, if not more so, than any of its predecessors. C. H. Totty was elected a delegate to attend the initial sweet pea convention to be held in New York. A very fine display of peonies and gladioli from Florham Farms was a feature of the evening. We were sorry to miss Arthur Herrington from our final meeting. He is confined to his home. His ailment, though not considered dangerous, is painful. Later reports say that he is improving rapidly. E. R.

PATCHOGUE, N. Y.—Geo. Terry and Geo. Biggs have entered into partnership and will go into carnation growing. They are building greenhouses for this purpose.

BAYONNE, N. J.—Fire destroyed a good deal of the handsome shrubbery at the home of former City Treasurer Nathaniel Trask, on Broadway, June 14. The fire was caused by the gardener throwing a lighted match into a pile of rubbish. For a time it looked as if the flames would spread to the house.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.

2½-in..... $5.00 per 100; $45.00 per 1000

CYCLAMEN.

3-in.....$7.00 per 100 4-in ..... $15 00 per 100
5-in.....$25 00 per 100

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Honest samples sent free.

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Semple's, Vick's and **Queen of the Market,** fine plants, grown from the best seed, three colors: $2.50 per 1000: $10.00 per 5000.

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CABBAGE PLANTS, all kinds, from the field, $1 00 per 1000; 5000 for $4.00.

CAULIFLOWER, and **PEPPERS,** $2.50 per $1000.

TOMATOES, all kinds, $1.50 per 1000.

J. C. SCHMIDT, Bristol, Pa.

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To Close Out for Bench Room.

	Per 100
S. A. Nutt, Bruant, La Favorite, 4-in	$4.00
Mme. Salleroi, 2½-in.	1.00
Rose Geraniums, fine, 4-in.	4.00
English Ivy, 4½-in., fine stock	$12.50 per 100
Fuchsias, 2-in	1.50 per 100

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GEO. A. KUHL, Pekin, Ill.

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Alternantheras, 4 varieties, $2.50 per 100.
Bouvardias, pink, white, scarlet, 2-in. pots, $3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in. pots, $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Geraniums, best varieties from 3-in. pots, $4.00 per 100; 4-in. pots $6.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground, $1.00 per doz.
Lobelia, Double blue, 2½-in. pots $3 00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia, California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadri color; Golden Feather, Cupheas, Snapdragon, Lantanas, Smilax, Asparagus Sprengeri.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

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A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-ih pots, $2 50; 3-in., $5.00 per 100; Mme. Salleroi, 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5.00 per 100.
Vinca Var., 2-in., $2.00 per 100, 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia), Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas. Ageratum,** blue and **Heliotrope.**
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100

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$1.50 per 100.

Geraniums, double Grant, Nutt, Bruant, Viaud, Perkins etc., 2-in. $1.50 per 100
Heliotrope, Salvia, Coleus, Stevia, 2-in. $1.50 per 100.
Alternanthera, $2 00 per 100
Paris Daisy, yellow, white, **Swainsona,** alba, **Stevia,** green, **Asparagus,** Sprengeri, 2-in., 2c.
Cannas, 4 and 5-in., 5c.
ROOTED CUTTINGS, Prepaid per 100. **Cuphea.** 75c; **Paris Daisy,** white, and yellow; 2-in. 2c. **Swainsona,** alba, $1.00; **Coleus,** 60c., $5 00 per 1000; **Artillery Plant, Stevia,** Green and Variegated, 75c. Jerusalem Cherry, 2-in. 2c.
Cash or C. O. D.

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The first agri-horticultural show ever held in Mozufferpore took place on February 5-6 in the grounds and Durbar hall of Joran Chuptra, kindly placed at the disposal of the committee by the Maharaja of Darbhanga. The flowers, fruit, and vegetables were arranged in the large Durbar hall, which presented a most attractive appearance, the sides of the room being banked with the exhibits of pot plants, while the center was given over to decorated tables and cut flowers. The first prize for table decoration had a pretty arrangement of coreopsis in silver vases. The second had a dainty-looking table of pink poppies, while the third had cosmos and sweet sultans. There were also groups of foliage and flowering plants, crotons, ferns, etc. According to an Indian newspaper there were also mammoth vegetables, particularly cauliflowers and celery, while potatoes, carrots, tomatoes, mushrooms and watercress were also exhibited.

ELGIN, ILL.—At a recent fire at their home, the daughters of Geo. Souster, Miss Elizabeth and Miss Anna, heroically entered the barn where their horses were and, at great danger to themselves, rescued the frightened animals by throwing blankets over their heads and leading them out. For a long time the horses were wild with fright and would not budge. One of the animals was a pony that had been a pet of the girls since childhood. Fortunately they were not seriously injured, Miss Elizabeth only being slightly burned.

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800	3½ "	5.80	48	9-in., in crate,	$3.60
500	4 "	4.50	48	10 "	4.80
456	4½ "	5.24	24	11 "	3.60
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210	5½ "	3.78	12	14 "	4.80
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Araucarias. Bobbink & Atkins, Rutherford, N. J.

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Aucuba Japonica punctata, 4 ft., in tubs, $3 each; in square mission tubs, $5 each. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

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Azaleas. Jacs Smits, Naarden, Holland.

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Bay trees, standard or tree shape, 20 to 22 ins., 18 to 20-in. crown, $4 each; 25 to 27 ins., 20 to 22-in. crown, $4.50; 36 to 38 ins., 24 to 26-in. crown, $6; 44 to 47 ins., 20 to 22-in. crown, $6; 45 to 47 ins., 36 to 38-in. crown, $12. Pyramidal shaped, 5 ft., 20 to 22-in. diam., $7.50; Imperials, 48 to 50 stem, 30-in. crown, $15 each. Vaughan's Seed Store, Chi. & N. Y.

Bay trees, 12-in. tubs, 26-in. stem, 18-in. crown, 46 ins., $12 per pair; 14-in. tub, 46 stem, 24 crown, 64 ins., $15 per pair; 18-in. tub, 48 stem, 30 crown, 78 ins., $20 per pair; 18-in. tub, 48 stem, 36 crown, 80 ins., $25 per pair. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

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Lobelia, blue, 2-in.	2.50
Ageratums, 4-in.	6.00
Vinca var., 4-in., short	8.00
Ivy, English, 4-in.	12.00
Ivy, German, 2½-in.	3.00
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1657 Buckingham Pl. Chicago.

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		Yellow:	
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Snow Queen	1.50	G. Beauty	1.50
T. Eaton	1.50	Chas. Cronin	1.50

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75,000 transplanted chrysanthemums, cuttings ready for benching: White: Estelle, Kalb, Touset, Ivory, Byron, Bonnaffon. Yellow: Cremo, Monrovia, Halliday, Whilldin, Bonnaffon, Jones, Pink, Pacific, Enguehard, Bailey. Red; Black Hawk, Cullingfordi, $1.25 per 100; $12 per 1,000. T. W. Baylis & Sons, West Grove, Pa.

Chrysanthemums, Golden Glow, Pacific Supreme, White Cloud, 2½-in., $25 per 1,000; R. C., $18. October Frost, 2½-in., $20 per 1,000; R. C., $12. Virginia Poehlmann, $4 per 100. Golden Eagle, $5 per 100. Standards, midseason and late, 2½-in., $20 per 1,000; R. C., $12. I. M. Rayner, Greenport, N. Y.

Chrysanthemums, 2½-in. pots: Oct. Frost, $2.50 per 100; $20 per 1,000. Kalb, Touset, A. Byron, Wanamaker, Monrovia, Oct. Sunshine, Appleton, $2 per 100; $15 per 1,000. Nonin, $2.50 per 100; $20.00 per 1,000. J. D. Thompson Carnation Co., Joliet, Ill.

Chrysanthemuns, 2 and 3-in., Touset, Enguehard, Pacific, Estelle pink and white, P. and W. Jones, Duckham, pompons, Mrs. Beu, Diana, 2c each. Mrs. A. M. Schafer, 229 Balmoral Ave., Chicago.

Golden Glow and Pacific Supreme, R. C., prepaid at $2.75 per 100; 1,000 not prepaid, $25; from 2¼-in. pots, $3.50 per 100. Chas. Frost, Kenilworth, N. J.

Chrysanthemums, Dolly Dimple $3.50 per 10. Patty $2 per 10. Merry Jane, $2.50 per 100. Golden Eagle, $10 per 100. F. Dorner & Sons Co., LaFayette, Ind.

Polly Rose. Good and profitable variety, $2 per 100, 2½-in. pots. Wm. B. Sands & Sons Co., Hollins, Md.

Chrysanthemums, strong, healthy plants, Major Bonnaffon, J. K. Shaw, $15 per 1,000. A. W. Higgins, Westfield, Mass.

To close out our surplus Golden Glow, we offer strong 2½-in. stock at $4 per 100. C. C. Pollworth Co., Milwaukee, Wis.

Golden Glow, 3½c; Oct. Frost, 2½c. All from 2-in. pots. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Golden Glow, excellent stock, 2½-in. pots, $6 per 100; $50 per 1,000. C. C. Pollworth Co., Milwaukee, Wis.

Chrysanthemum plants, 2-in., fine stock, standard varieties, $20 per 1,000. Carl Hagenburger Co., W. Mentor, O.

Chrysanthemums, leading vars. Wood Bros., Fishkill, N. Y.

Chrysanthemums, Golden Glow. Eli Cross, Grand Rapids, Mich.

CLEMATIS.

Clematis Jackmani, 6-in., 35c each; $4 per doz.; Queen, 6-in., 35c each; $4 per doz.; Romeana, 6-in., 35c each; $4 per doz.; Paniculata, 2-yr., 25c each; $2.50 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Clematis paniculata, 3-in., $5 per 100. Large flowering vars., 2-yr., $3 per doz.; Jackmani, Henryi, Mme. Andre-Coccinea, $2 per doz. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Clematis. Bobbink & Atkins, Rutherford, N. J.

COLEUS.

Coleus, 10 best vars., $2 per 100; R. C., 75c per 100; $6 per 1,000. W. W. Coles, Kokomo, Ind.

CYCLAMEN.

Cyclamen, 3-in., $7 per 100; 4-in., $15; 5-in., $25. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Cyclamen persicum giganteum, 3-in., 6c and 7c. Alfred Hannah & Sons, Grand Rapids, Mich.

Cyclamen. Geo. A. Kuhl, Pekin, Ill.

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Dahlias in variety. Vaughan's Seed Store, Chicago and New York.

Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

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Daisies, Shasta. G. A. Kuhl, Pekin, Ill.

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Dracænas, in flats, 2,000 to box, $1.50 per box; 4-in., 12c; 5-in., 20c; 6-in., 30c each. Mosbæk Greenhouse Co., Onarga, Ill.

Drasæna indivisa, 6-in., $5 per doz.; 7-in., $7; 8-in., $9; 9-in., $12. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

Dracæna indivisa, 4-in., $10 per 100. F. C. Riebe, Webster, Mass.

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Ferns, Adiantum cuneatum, 3-in., $1 per doz.; $8 per 100; 4-in., $1.50 per doz.; $12 per 100. Boston fern baskets, 10-in., $1 each; from bench, 5-in., $2 per doz.; $15 per 100. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Ferns, Boston, 6-in., 50c each. Piersoni, 6-in., 50c; 8-in., $1 each. Scottii, 2½-in., 5c. Elegantissima, 3-in., 10c. Boston, strong plants, 5-in., 30c each. Mosbæk Greenhouse Co., Onarga, Ill.

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Jardiniere ferns, 6-7 best varieties, $3.50 per 100; $30 per 1,000. Rose Hill Nurseries, New Rochelle, N. Y.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Fern balls, 7-9-in., $2.50 per doz.; $18 per 100; 5-in., $1.75 per doz.; $12.50 per 100. Vaughan's Seed Store, Chicago and N. Y.

Ferns, Boston and Piersoni, mixed from 2½-in., $2.50 per 100. Elmer D. Smith & Co., Adrian, Mich.

Ferns, Whitmani, 2½-in., $3 per 100; $25 per 1,000; 4-in., $10 per 100. John A. Doyle, Springfield, Ohio.

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Ficus elastica. 5¼ to 6-in., 25c and 30c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Geraniums, collection of singles for winter blooming, $2 per 100; $18.50 per 1,000. Will send 1,000, 50 each of 20 good varieties, our selection, $18.50. Novelties, one each of 100 varieties, 1907 and 1908, 3-in., $10. R. Vincent, Jr. & Sons Co., White Marsh, Md.

60,000 geraniums from 2½-in. pots, strong, clean and healthy; 20,000 B. Poitevine (salmon); 15,000 Nutt, 15,000 Henderson (scarlet); 5,000 Viaud (pink); 5,000 Buchner (white), $2 per 100; $18 per 1,000. The W. T. Buckley Co., Springfield, Ill.

Geraniums, S. A. Nutt, 4-in., thrifty stock in bloom, $6 per 100. Salleroi, 2½-in., $2.50 per 100, extra good. A few of the other varieties. Henry F. Piggott, 4248 Pearl Road, Cleveland, Ohio.

Geraniums. Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5 per 100. Geo. Emmans, Newton, N. J.

Geraniums, standard varieties, 2¼-in., $2.50 per 100; 3-in., $5 per 100; ivy and Mme. Salleroi, very strong, 2¼-in., $1.50 per 100; 3-in., $3 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Geraniums, 4-in. in bloom, $4 per 100; 2½-in., $1.50. J. C. Schmidt, Bristol, Pa.

Geraniums, R. C., Ricard, Poitevine, Nutt, $1 per 100. A. M. Herr, Lancaster, Pa.

Geranium Mme. Salleroi, 3-in., 4c. Crabb & Hunter Floral Co., Grand Rapids, Mich.

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Geranium, S. A. Nutt, 3-in., $4 per 100. F. C. Riebe, Webster, Mass.

3,000 S. A. Nutt geraniums, at $5 per 100. J. L. Dillon, Bloomsburg, Pa.

Geraniums. Geo. A. Kuhl, Pekin, Ill.

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Greens, fancy and dagger ferns, $2.50 per 1,000; Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum moss, large bales, $1.25. Leucothoe sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch; 50 lbs., $8.50. Michigan Cut Flower Exchange, Inc., 38 Broadway, Detroit, Mich.

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Greens, evergreens, fancy and dagger ferns bronze and green galax. Geo. Cotsonas & Co., 53 W. 28th St., New York.

Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala.

Greens, cut palmetto and cycas leaves galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

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Greens, hardy cut ferns, fancy and dagger, 75c per 1,000. Laurel roping, 5c per yd. Bouquet green in bulk or roping, 7c per lb., 5c per yd. Sphagnum moss, 60c per bbl. Thos. Collins, Box 241, Hinsdale, Mass.

Greens, fancy and dagger ferns, $1 per 1,000. J. N. Pritchard, Elk Park, N. C.

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Hardy herbaceous plants; Achillea ptarmica; Delphinium azureum, Chinensis, Formosum; Dianthus barbatus, Chinensis; Lobelia cardinalis; Lychinis Chalcedonica; Myosotis palustris, Veronica, $1 per doz.; $7 per 100. Chrysanthemum maximum, $1.50 per doz.; $10 per 100. Yucca filamentosa, 2-in., $2 per 100. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Phlox, hardy perennial, best assorted varieties, strong plants, $5 per 100; $40 per 1,000. Rose Hill Nurseries, New Rochelle, N. Y.

Hardy perennials. A fine assortment. Send for descriptive list Mosbæk Greenhouse Co., Onarga, Ill.

Hardy perennials. Vaughan's Seed Store, Chicago and New York.

Hardy phlox, salmon pink, R. C. 65c 100; $5 1,000. A. M. Herr, Lancaster, Pa.

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Heliotrope, 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Heliotrope. Geo. Emmans, Newton, N. J.

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Hollyhocks, best single and double strain. Plants to flower, $8 per 100; $75 per 1,000. Rose Hill Nurseries, New Rochelle, N. Y.

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Ivy, English, 4-in., $1.50 per doz.; 5-in., $2 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

English ivy, 4½-in., 3 to 4 ft., 15c each. N. C. Moore & Co., Morton Grove, Ill.

English ivy, 2-in., R. C., 75c. J. H. Dann & Sons, Westfield, N. Y.

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Jerusalem cherries, 2 in a pot, $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Lily of the valley, cold storage, in cases of 2,500, $20 per case. Jacs Smits, Ltd., care Maltus & Ware, 14 Stone St., N. Y.

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Lobelia, compacta and speciosa, 2¼-in., $1 per 100. Mosbæk Greenhouses, Onarga, Ill.

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Moonvines, 4-in., $12 per 100; 3-in., $8; 2½-in; $5. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Sphagnum moss, best quality, usual size; less than 10 bales, 75c each; 10 bales and up to 40, 60c each; orders of 40 bales or less, cash with order please. Write for prices on larger quantities. L. Amundson & Son, City Point, Wis.

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Sphagnum moss. Vaughan's Seed Store, Chicago and New York.

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Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

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Orchids, fine lot of East Indian, Dendrodium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, D. chrysotoxum, etc. Lager & Hurrell, Summitt, N. J.

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2½-Inch Stock.

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Maids	$3.00	$25.00
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Uncle John	3.00	25.00
K. Moulton	3.00	25.00
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Rhea Reid	5.00	45.00
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Roses, 2½-in., Killarney, $4 per 100; $35 per 1,000; grafted, $10 per 100; $80 per 1,000. Am. Beauty, $5 per 100; $40 per 1,000. My Maryland, $7 per 100; $60 per 1,000. Maid, Bride, Chatenay, Richmond, $3 per 100; $25 per 1,000. Perle, $3.50 per 100; $30 per 1,000. Countess of Gosport, $4 per 100; $35 per 1,000. 3-in.; Killarney, $5 per 100; $45 per 1,000. Am. Beauty, $8 per 100; $75 per 1,000. Maid, Richmond, Perle, $4 per 100; $35 per 1,000. Peter Reinberg, 35 Randolph St., Chicago.

Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per $100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. Rhea Reid, 2¼-in., $5 per 100; $45 per 1,000. Bride, Maid, $5 per 100; $45 per 1,000. Potter Palmer, 2½-in., $5 per 100; $45 per 1,000. Kaiserin, 3½-in., $6.50 per 100; $55 per 1,000. Uncle John, 2½-in., $4 per 100; $35 per 1,000. Killarney, 2½-in., $5.50 per 100; 3½-in., $7.50. Perle, 2½-in., $5 per 100; $45 per 1,000. Richmond, 2½-in., $5 per 100; $45 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, own root, Killarney, Richmond, Chatenay, Mrs. Potter Palmer, Bride, Bridesmaid, 3-in., $5 per 100; $40 per 1,000. Bride and Bridesmaid, 2½-in., $4 per 100; $35 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

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Killarney rose plants, 2-in., extra strong, ready for shift, $30 per 1,000; also 2½-in., $35; also Killarney, 2-year-old bench plants, $40 per 1,000. Immediate delivery. Weiland & Risch, 59 Wabash Ave., Chicago.

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Roses, Crimson Rambler, 5-in., $2 per doz.; 6-in, $3. Hybrid perpetual, $2 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

Roses, strong 3-in., own roots, Richmond, Chatenay, Bride, ready to bench, $5 per 100. Cash. Frank F. Crump, Colorado Springs, Colo.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses, grafted, 3½-in., Bride, Maid, Kaiserin, Richmond, Chatenay, $12 per 100. Rhea Reid, Mrs. Jardine, $20 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, Ivory and Uncle John, fine well pot bound stock, 3-in., $6 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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2,000 Salvia splendens, at $4 per 100. J. L. Dillon, Bloomsburg, Pa.

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Seeds, bean, beet, cabbage, carrot, kohlrabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

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HOW TO LAY OUT SUBURBAN HOMES (Kellaway).—Contains many useful hints and practical plans as to improving and laying out suburban homes and grounds. There are 112 pages, 38 half-tone illustrations and 15 plans and maps. $2.

LANDSCAPE GARDENING (Maynard).—The development of landscape art within the past few years compels the wide awake florist to keep posted on this branch of the business. The many suggestions of this book will be found helpful every business day. It contains 338 pages, 165 illustrations. $1.50.

DAFFODILS, NARCISSUS AND HOW TO GROW THEM (A. M. Kirby).—Contains all that is really worth knowing about these most popular of spring bulbs, written from the standpoint of American conditions. Illustrated, 233 pages; postpaid, $1.21.

AMERICAN FLORIST CO. 324 Dearborn St., Chicago.

f You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT

76-78 Wabash Ave., CHICAGO

Garman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO., FLUSHING, N. Y.

"Natural Guano"

PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available Used universally as a quick acting natural plant food. Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

KILL PLANT BUGS and DOG FLEAS

with Lemon Oil Insecticide, adding 30 parts water. No odor, no poison—advantages over Fish Oil or Tobacco products Used everywhere If not sold by your seedsman, write WEATHERBY BROS. Baltimore, Md., for full information

Washington.

COMMENCEMENT WORK.

Orders for bouquets and baskets are rapidly being booked for the final school closing exercises. There is also quite a demand for funeral work, owing to the deaths of a number of prominent persons. Stock is not very plentiful and it is expected that the past week of sunshine will help to recuperate the outdoor stock, which has been damaged owing to the long spell of cloudy and wet weather. With the contemplated departure in the near future of the president and family, and the closing of congress, there will be but little to do. Schedules for vacations are being prepared at the various stores.

NOTES.

The I street window of Geo. C. Shaffer's store is a great source of attraction. A large pond eight feet square is filled with aquatic plants; to the rear from a high bank of rocks a wide stream of water falls, and beside the bank a rustic house, which is connected with a rustic bridge leading out into the pond to a rustic pavilion. A number of various colored miniature incandescent lights illuminate the railing around the house, the bridge and the pavilion; swimming about the pond are gold fish and turtles; about a dozen ducks make merry in the water, night. G. S.

Vaughan Specialties

Lowest Prices.

Sphagnum Moss,

Mastica,

Tin Foil,

Vaughan's Rose Grower Bone Meal.

Vaughan's Seed Store,

Chicago. New York.

Has stood the test of over a Quarter of a Century.

THOMSON'S

Vine, Plant and Vegetable

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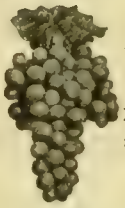
UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



The result of many years practical experience.

PERFECT PLANT FOODS

Sold by Leading American Seedsmen.

ALSO

Thomson's Special Chrysanthemum and Topdressing Manure.

Freight paid on quantities. Write for our special offer to the American trade, pamphlets, agents' circulars etc., to sole makers,

WM. THOMSON & SONS, Ltd., Tweed Vineyard, Clovenfords, Scotland

WIZARD BRAND MANURES

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,

OWENSBORO, KY.

Fresh Tobacco Stems,

$1.50 for 300 lbs.

W. C. BECKERT,

North Side, PITTSBURG, PA

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to Subscribe to the

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Published weekly. The Largest Brightest and Best British Trade Publication. Also

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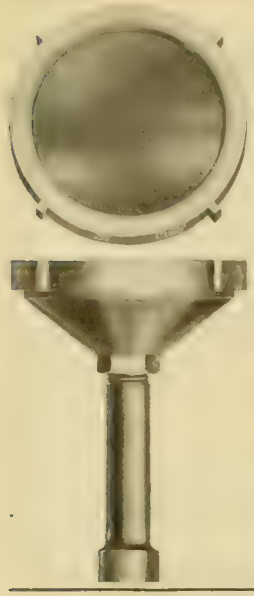
Published quarterly. Annual subscription for weekly and quarterly numbers, One Dollar. (International money order). Subscribe today and keep in touch with European markets and topics.

The Horticultural Printing Company

BURNLEY, ENGLAND.

The Early Ad. Catches the Coin.



THE NEW

Chicago Sprayer

This Sprayer is made of aluminum and with two brass plates, one being fine and the other coarse. They can be easily removed, quickly cleaned, and this sprayer will never wear out.

Spraying face 4 1-2 inches wide; nozzle 6 1-2 inches long, 3-4 inch pipe connection, $2.50 each.

E. H. HUNT, Established 1878. **76-78 Wabash Avenue, CHICAGO...**

St. Louis.

A GOOD WEEK.

Quite a change in the market and a very welcome one at that. The glut of last week is a thing of the past and now a more conservative market is with us. Carnations are now quoted at 1½ and 2 cents, and roses, especially the better grades, are scarce. Quite a demand last week was caused by the closing exercises of the public schools, the universities and colleges, and this week will wind them up; then the regular summer business will have started. Sweet peas have been in demand and prices have had an upward tendency, especially where the quality has been fair. Ferns are selling well, fancies are starting to come in and are eagerly sought after. Asparagus Sprengeri and A. plumosus are selling well.

GREENHOUSE BUILDING.

Fred Ude of Kirkwood is putting up four new greenhouses 16x100 feet; C. Meyer, one 28x120 feet for carnations; Philip Goebel, one greenhouse 20x100 feet for carnations; Gus Hartmann, one 17x100 feet for violets; Edwards, four houses 18x100 feet for violets and carnations; W. M. Meyer, one 18x100 feet for violets, and W. R. Greb is finishing up his greenhouse 18x70 feet.

NOTES.

The programme to be carried out by the Florists' Club for the annual picnic is fast getting in shape. Henry Ostertag has been very busy getting copy from prominent advertisers in all lines of business, and quite a neat little sum will be netted to cover expenses of special prizes to be given for sporting events.

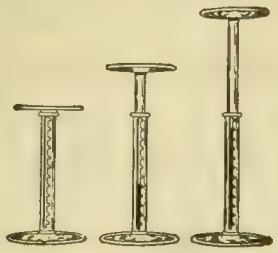
C. J. Schlueter, brother of Mrs. Kate Schlueter (the North St. Louis lady florist), was married June 16 to Miss Nancy Dean; a home wedding at the residence of the bride, 4458 Greer avenue.

F. C. Weber, wife and daughter, together with Theodore Miller, wife and daughter, will leave for Germany next week.

Wm. Smith Floral Co. is handling some extra fine sweet peas.

Adolph Brix' daughter was married last week. W. F.

PARIS, FRANCE.—At a fete given by the Aero club five balloons ascended gaily decorated with the flowers for which they were named—Cornflower, Carnation, Peony, Daisy and Rose, and these flowers were showered upon the spectators as the ascents were made, making a very pretty spectacle.



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

Sterling Iron Reservoir Vases

Chairs, Settees, Hitching Posts, Etc.

Complete Catalogue and Discounts Upon Request.

The Sterling Emery Wheel Mfg. Co., TIFFIN, OHIO, U. S. A.

New Orleans.

THE SEASON OVER.

The season is now closed for the summer as every one who can has gone, or is preparing to leave, for cooler climes. The growers are busy preparing their chrysanthemums for the fall trade, and if the conditions of the last two months continue we will have an immense crop for All Saints day (November 1). The only cut flower orders now are for wedding or funeral work.

SOCIETY NOTES.

The Society of Southern Florists had a meeting recently at which C. R. Panter presided in the absence of President Jas. Newsham. Paul Abele, secretary, and about 15 members were present. It was resolved that for want of interest and encouragement from the members, about 70 strong, and not having met in two years, it was best to disband and give a banquet in conjunction with the Horticultural Society on July 15 at Milneburg.

The Horticultural Society held its regular monthly meeting on June 17, and after routine business it was decided that instead of the regular annual outing the election of officers take place next month at Milneburg on Lake Ponchartrain. A banquet will be held after the meeting.

SCOLLAY'S

Plant Sprinkler Putty Bulb.

VAUGHAN'S SEED STORE, CHICAGO NEW YORK

NOTES.

Richard Eichling, grower for U. J. Virgin, has some fine asters in bloom for this season of the year.

J. A. Schindler & Co. have gone into the hands of a receiver.

John Rink has the Union Station park in beautiful condition.

Robt. Reinecke has a fine stock of fish tail ferns.

B. M. Wicher & Co. report business quite fair.

D.

Greenhouse Glass

Don't fail to write us if in the market. Prices are extremely low. We guarantee our Glass in every respect.

GIVE US A TRIAL.

Baur Window Glass Co.
EATON, INDIANA.

MASTICA

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

THE BEST WAY

to collect an account is to place it with the

National Florists' Board of Trade

56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.

VAUGHAN'S PERFECTION POINT

Original Van Reyper's
No rights or lefts.
No. 2 single thick,
No 2½ double thick
1000 for **55c**, by mail **70c**, 5000 lots **50c** per 1000 by express.
Vaughan's Seed Store,
Chicago, New York

Attention!! Glass Buyers!!

GREENHOUSE GLASS.

You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint

The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

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WHOLESALE GLASS AND PAINTS,
Long Distance Phone Monroe 4994. 120 to 128 W. Washington St., Chicago.

MODERN PRIZE WINNING PLANTS

They bloom and operate the entire year. We are the

World's Largest Producer of Greenhouse Glass

Ask the dealer and insist upon having our brand. If he cannot supply your wants, write direct to headquarters.

AMERICAN WINDOW GLASS CO.
Farmers' Bank Building, PITTSBURG, PA.

The James H. Rice Co.

IMPORTERS AND JOBBERS

GREENHOUSE GLASS

A SPECIALTY

WINDOW GLASS, PAINT, PUTTY, ETC.

Office and Warehouse: Corner of Michigan, St. Clair and Illinois Streets. CHICAGO

STENZEL GLASS CO.

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—Specialists in—

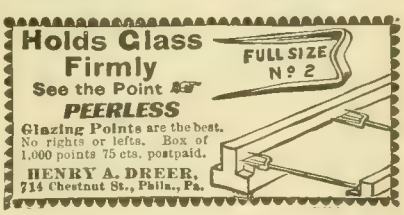
GREENHOUSE GLASS

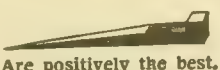
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE.

Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address

JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.





SIEBERT'S ZINC GLAZING POINTS
Never Rust
Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert. Baum & Beatty Sts., Pittsburg

Louisiana, Mo.

Stark Bros. Nurseries & Orchards Co. recently received the following letter which is self explanatory:

Washington, D. C.

I see that Stark's Nursery presented every convict in the penitentiary with a nice bouquet the other day. I most heartily congratulate you on this humanitarian act. When I was in the Missouri legislature 20 years ago the laws of Missouri did not contain a single reformatory idea. I tried to introduce some which have since been adopted, but I was ahead of my time, so that I am glad when I see that anybody does anything to ameliorate the condition of a most unfortunate set of people. In at least two-thirds of the cases they are criminals through misfortune rather than anything approximating total hereditary depravity. CHAMP CLARK.

MANETTE, WASH.—J. E. Baker is doing a large and increasing business, largely in outdoor flowers, both locally and wholesale to Tacoma and Seattle. Mr. Baker is greatly interested in improving the strains of the plants he grows and would like to have other interested persons communicate with him.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

The Hughes Ball Team.

The team that is representing Hughes the Chicago florist this year, has so far an unbroken string of victories to its credit. Meeting the strong Lombard team June 13 it snowed them under to the tune of 11 to 1. They followed this up June 19 by applying a

Hughes' Baseball Team, Chicago

coat of whitewash to the Crawfords, beating them 8-0, and on Sunday swamped La Grange 8-2. The boys have one of the stronget amateur batteries in town, and the scores they have rolled up intimate that they are some hitters.

At Chicago.

The two leaders in the competitive bowling that is now going on at Bensinger's alleys to select a team to represent the Florists' Club at the S. A. F. convention at Cincinnati in August failed to put in an appearance on Friday night, Henry Kruchten being kept away through business and John Zech being ill, hence their averages remain the same as last week. A. Zech, Bergman and Asmus improved their standing, while the balance of the pin getters fell off in their work and will have to do some tall bowling the next few weeks if they expect to get in the charmed circle. The rules specify that 21 games must be rolled in this competition and as there is only a possible 30 games to be rolled it behooves every one to make it a point to be regular in their attendance. The 10 high average men are: H. Kruchten, 193 1-3; J. Zech, 182; A. Zech, 171 1-9; G. Asmus, 170 4-6; V. Bergman, 165 6-9; Lorenzen, 164 1-3; W. Wolf, 161 1-3; E. Schultz, 157 2-3; F. Pasternik, 154 8-9; J. Degnan, 151. The scores of Friday night's games follow:

Craig	129	105	155
A. Zech	164	189	161
J. Michaelson	155	169	166
J. Kruchten	119	159	141
Dressel	142	113	132
Totals	709	735	755
E. Farley	129	106	120
Lorenzen	176	155	162
V. Bergman	221	145	137
J. Degnan	143	147	120
F. Johnson	142	118	128
Totals	811	671	667
E. Winterson	151	181	140
F. Ayers	133	138	174
F. Kraus	122	132	118
T. Yarnall	136	140	93
T. Vogel	106	83	129
Totals	648	674	654
O. Goerisch	116	158	149
G. Asmus	187	171	177
T. Graff	142	179	133
F. Pasternik	142	156	136
Eckhart	92	80	104
Totals	679	744	699

At Washington.

BOWLING.

The following scores were made at the Rathskellar alleys Wednesday evening:

Cooke	128	210	183
Shaffer	154	166	149
Hamner	186	159	223
McLennon	199	166	215
Simmonds	242	188	171
Caldwell	152	176	187
Dalglish	151	158	150

G. S.

Baltimore.

STAGNATION IN TRADE.

Trade the past week has been down to the lowest depths of stagnation, with practically no movement to absorb the excessive products which are put on the market. The June weddings are things of the past. Commencements are over and the healthfulness of the season is appalling to the warring undertaker, so that even funeral flowers are no longer in request. Carnations were a glut; the indisposition to pull out the plants whilst no filling in can be done from the wetness of the soil is general. Roses are almost equally plentiful, and the mildew is general. Some few sweet peas of fine quality are coming in, but the bulk are water-soaked and miserable. There has been some intermitting fine weather the past day or two, but several storms last week were of great violence. The rainfall was enormous and came down with such force as to compact and harden the soil and prostrate much of the growing stock. There was not much wind on the west side but across the river there was a small tornado. John M. Rider of Brooklyn lost a row of ventilators and many tree limbs.

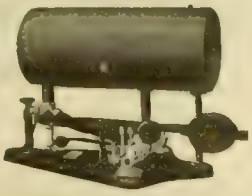
One of the best known street vendors of this city, Charles Gardner, died Monday in one of our hospitals of tuberculosis. He had been longer in business here than any of his calling in the cut flower line, and had the nerve at times to take over pretty big lots of material from the Florists' Exchange.

Lehr Bros. of Anne Arundel are putting up two Lord & Burham houses for carnations, each 30x250 feet. They have pulled out three old cast iron boilers and are installing a return-tubular boiler of 100 h. p.

B. G. Merritt of Grange is building two houses 32x125 feet for carnations.

S. B.

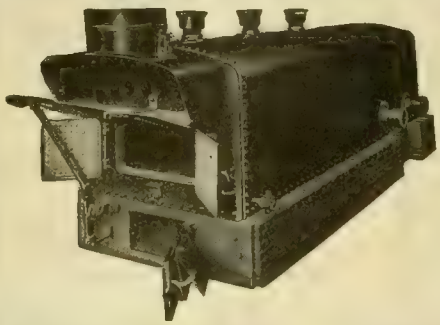
For The Greenhouse



MOREHEAD
Return Steam Traps

The present improved **Morehead Automatic Return Steam Traps** are the result of twenty years' use and development in thousands of heating and steam plants throughout the world. The "Morehead" was the **original** and has at all times been the **Standard** by which the comparative values of other traps have been measured. They've stood the test for 20 years, and have gained the well-done" of all users. Will you join the ranks? **Catalogue on request.**

MOREHEAD MFG. CO., 1047 Grand River Avenue, Detroit, Mich.



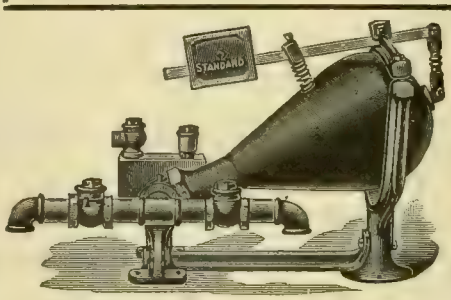
SEE HOW WELL THEY LIKE ME

150 New Establishments with 2,158,000 square feet of glass have installed this boiler in 1906.

Ask for list of users and get acquainted with the men who know.

Catalogue and prices on application.

KROESCHELL BROS. CO., 466 Erie St... ...CHICAGO.



The Standard Steam Trap

Has established a record far above that that of any other trap for Florists; being very simple, durable and easily taken care of.

Catalogues of the Trap, Duplex Gutter, and Standard Ventilating Machinery, mailed free upon application.

E. HIPPARD, Youngstown, O.

Dimorphotheca Aurantiaca.

Closer acquaintance with this plant deepens the conviction that it will become a most popular plant. Its beauty goes without question, but to the gardener its robust, free-growing qualities will most directly appeal. It germinates freely indoors in early spring, and is never capricious about damping off, says a correspondent of the Gardeners' Magazine. From seed box to pot it transplants with perfect ease, and it is never in two minds as to growing. I planted my first batch outdoors in April (before Easter), at the foot of a south wall, and on May 5, the first flowers were fully expanded, imparting a rich color to the spring garden, and a most welcome addition to the plants for adorning gardens in the open-air during summer. It is also a beautiful subject for growing in pots in the greenhouse, and to those whose facilities are limited in this direction I can recommend it as one of the easiest plants to flower. Seed sown at intervals from the beginning of February will give plants to flower from April throughout summer.

A WIRELESS MESSAGE

IF YOU WANT BIG RESULTS

BUY FROM WHO RUNS THE IN THE YOU WILL WEAR A CAUSED BY FROM GROWN IN

PHIL FOLEY FACTORY CITY OF CHICAGO. SMILE PROFITS CROPS HOUSES

WESTERN, ARTESIAN AND CAMPBELL AVES. 25TH TO 26TH STS. CHICAGO

BUY YOUR BUILDING MATERIAL—WOOD—IRON—GLASS FROM FOLEY

Mention the American Florist when writing

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

S. WILKS MFG. CO.,

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Floral..... Arrangement.

The first special newspaper in the world for floral arrangement.

250 ILLUSTRATIONS ANNUALLY.

Specimen number free. Subscription, $2.40 yearly.

BINDEKUNST-VERLAG,

J. Olbertz, ERFURT, GERMANY.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates: 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler. 60 horse power, 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers!

A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc., some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters.

Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted: 50 4½-in. tubes: 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers Other sizes can be furnished at specially low prices. Write for complete list.

5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets CHICAGO.

Mention the American Florist when writing

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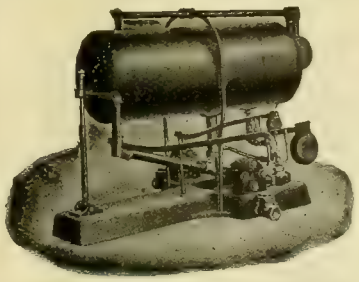

"Detroit" Return Trap. (Patented)

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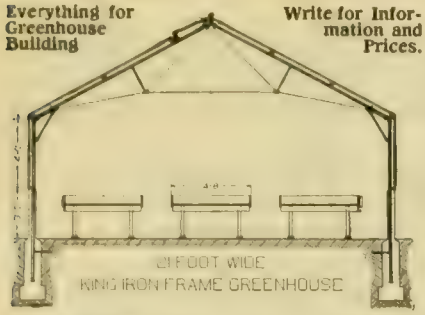

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Free circulars.
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A GOOD SEASON.

Business in this city has been the best ever for this season of the year, the larger number of weddings and the many social functions lately taking place have called for decorations, many of them out of the ordinary and have been pretty fairly divided amongst the different florists. Stock of all kinds has been fairly plentiful but with the warmer weather and replanting of houses the crop of roses is much smaller and quality not so good. American Beauty is very scarce and at times it is impossible to fill orders. Carnations are still plentiful and good and lily of the valley of superior quality is abundant. This city is making rapid strides in the production of orchids; a few years ago it was often impossible to get enough locally to fill an order for a dozen blooms, now they can be had in lots of 500 easily and at moderate prices.

NOTES.

Grobba & Wandrey find ready sale for a large quantity of centaurea; this firm is ever ready to take up something out of the ordinary and in this have struck it right. The cattleyas are at present fine, many plants showing from 12 to 34 blooms.

Miller & Sons are quickly repairing the recent damage caused to their plant by the boiler explosion and all hands are kept busy glazing. They have had a good crop of gladioli both large and small.

Peonies are now the dominant flower in window decoration. Frank Duffert has them in quantities as he grows a large number of the early varieties.

R. Jennings of Brampton is off on a tour to the old country. Chas. Tidy also has his passage booked for next month.

Visitors: T. W. Duggan and R. Jennings of Brampton; Wm. Connan, Hamilton. H. G. D.

Speaking of Curvilinear Houses.

Here is the so-called "rear view" of a Sectional Iron Frame one at Bernardsville, N. J. You see there is no end entrance, but on the other side is a central entrance with ornamental vestibule.

18 x 75 feet makes a splendid house, and if you want one that is truly ornamental, there is positively nothing that approaches our Curvilinear Type. They are "as light as outdoors," and they "last for all time." What more do you want?

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When ordering your other building material, it is wise to add enough **Pecky Cypress** to make the shipment a carlot and so take advantage of lower carload freight rates.
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PIERSON U-BAR COMPANY
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WREATH ON RUSTIC EASEL OF BLUE SPANISH IRIS AND STOCKS.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, JULY 3, 1909. No. 1100

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the everyday florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR PLANT GROWERS.

Winter Flowering Geraniums.

Where there are strong and healthy little plants in 2-inch pots these, if well rooted, should be repotted into 5-inch and be stood in a light cool frame or plant protector. The soil in the pots must be made very firm or growth will be too rapid. What is needed is a short-jointed, firm growth that will be solid and well ripened by autumn, such growth always flowering more freely than that produced in loose rich soil. Shading is a point that needs attention according to individual circumstances. In very few places in this country can it be done without entirely, but with these sunloving plants the less used the better as long as the foliage does not suffer. Water moderately until the plants are again established in the pots and damp the plants overhead daily. Pot the late rooted cuttings into 2-inch, to be shifted as noted, for the earlier plants when they are ready. It is getting late to root others for winter flowering, but if a successful batch of cuttings can be rooted now they will be in good shape for early spring flowering.

Hardwooded Plants.

The usual custom of placing all hardwooded plants outdoors for the summer, placing them under the shade of adjacent trees that are sometimes insect infested and where the plants do not get fresh air in nearly sufficient amounts, is not always the best that could happen. Growers who practice this look on the summer as a troublesome period in the life of their azaleas, genistas, heaths, boronias and similar stock that has to be bridged over somehow and lumping them all together with oleanders, orange trees and other stock equally misused seems the easiest way out of it. Heaths and boronias treated this way never flower satisfactorily as the wood is soft and immature. They should be plunged outside in the sun with their roots and pots safe from the scorching heat in plunging material kept moist by occasionally spraying and keeping the top loose. During the very hottest part of the summer these plants can be kept right this way, though a light shade from the midday sun at such times is an advantage. Azaleas need more shade than heaths and as the flower buds are already set in the growth the ripening process need not be so severe. The tree shade may do all right for them provided the position is one in which the air can circulate freely among them. Rhododendrons may be similarly treated.

Begonia Gloire de Lorraine.

Growers of Begonia Gloire de Lorraine must not look for a very vigorous growth in their plants for another two months or so. The most critical time in the culture of these plants is to come, for the heat of summer does not suit them. The aim now must be to keep them gently moving and keep the soil in the small pots sweet by careful watering and occasional stirring of the surface. When for any reason the stock is short small plants may be purchased now at a fairly cheap rate and it is better to buy them and grow them on than to have to buy later. Where the leaf cuttings were rooted in the pots these will probably need a shift and in any case if the soil is in bad condition it will be well to renew this, giving a sandy soil with a good proportion of leaf mould. But we do not advise pulling them about at the roots as long as they are healthy and holding their own. Better wait until the middle of August and then give a shift into the flowering pots. Still nothing approaching starvation can be allowed and it is better to give a small shift than to check the plants in any way. The same treatment is necessary for the white form and the several improved varieties of this begonia.

Calceolarias.

The most frequent cause of failure with herbaceous calceolarias is want of attention in the earliest stages. Too early sowing, with the consequence that the young plants are neglected sometimes accounts for this and it is much better to wait until the plants can have proper attention from the start. If good plants are needed, however, the sowing must not be delayed much after the first week in July. Prepare the

pans carefully using sterilized soil consisting of leaf mold and loam with sufficient sand to keep it in good condition mechanically. Place the pans in a cool shady corner of a frame where the atmosphere will be regularly moist and only water at the surface sufficiently to keep the soil in good condition. A little moss placed over sheets of brown paper cut to fit the pans is a great help to keeping the soil moist without watering at the surface. But this must be watched carefully and removed as the seed germinates or the seedlings will damp off. The ideal position for the young seedlings both in the seed pans and after they are transplanted is a corner of a frame where the sun does not reach and which in consequence, has not to be shaded. If such an one is not to be had shading must, of course, be given as the calceolaria delights in a cool moist and airy position all through its career and will not thrive without it.

The Cold Frame in Summer.

Not enough attention is paid to the cold frame; plant growers will find it one of the most useful assets of their business. Not only is the frame used for small seedling stock but there are many plants of larger size that cannot be placed outdoors in summer yet thrive in the slight protection given by the frame. When it is customary to use the whole or any part of the houses for other purposes during the summer months then frames are absolutely necessary and they are a most useful adjunct to any greenhouse establishment, large or small. The important part of it all is that so many growers either do not know how to manage cold frames or they seem to think them of lesser importance and the plants in them are neglected. The time is rapidly approaching when there will be hundreds of young seedling stock of such things as cinerarias, primulas, calceolarias and even cyclamens to take care of. A cold frame with shaded lights, these being raised a few inches from the frame by tipping on the dividing bars and leaving air on the top of one and the bottom of the next, is the finest of all positions for such stock. The temperature keeps even and, owing to the proximity of the soil and the glass, does not dry out. For the next two months we may expect weather that renders the minimum attention necessary to such frames. The best time to give attention to the watering is some couple of hours after the air has been increased in the morning and the night moisture dried up, and before the sun has attained full power. On dull hot days the lights may be run off and the plants exposed to full air, such days being a great aid to the plant grower in summer. We can confidently advise anyone who has not these useful aids to plant growing to put them in at once.

DANBURY, CONN.—Cornell & Co. have closed their New Milford branch.

THE contract for decorating the steamers North Land and North West, of the Northern Steamship Co., has again been awarded to W. J. Palmer & Son, Buffalo, N. Y. This makes the third season this well known firm has been selected for the work.

THE RETAIL TRADE

THE pretty basket herewith illustrated is one of the little effective bits of work carried out by W. J. Smyth of Thirty-first street and Michigan avenue. We are glad to be able to report that Mr. Smyth is progressing favorably after his recent severe accident under circumstances already noted in these columns.

Flowers in the Chicago Stores.

Whatever may be said about the quality of the flowers to be had in Chicago, there is no question about the variety, for this is about as large

Pretty Basket by Wm. J. Smyth, Chicago.

Primula Obconica and Pteris.

as it could be. Taking the leading stocks, the peonies have been simply overriding everything else for the past few weeks, but the torrential rains of June 23 to 25 finished off a lot of the older blooms and those now arriving are of better quality than before. Roses are poor in almost every instance. Killarney is fair, but Bride and Bridesmaid, Richmond and others are down to the summer standard or a little below. The new American Beauty now coming in is the salvation of the situation regarding roses, while a few good Kaiserins are also on show, but not as many as usual at this time. Whether they are in the market or not they certainly are not shown in the stores.

Carnations are decidedly inferior in the majority of cases, yet in the better class stores one sees a few vases of fine, well-colored stock. Orchids are not overplentiful, though there are plenty of cattleyas apparently. Good C. gigas in the lighter forms seem to predominate, while there are still some good C. Mossiæ shown and C. Gaskelliana is coming in. Other orchids are seen, but not to any great extent. Sweet peas are not as good as they were. The outdoor flowers do not seem as good as usual, while the splendid quality of the indoor product seen some time ago is tailing off. The season has not been particularly hot and with a few sunny days the outdoor crop should certainly be better.

But if sweet peas are poor other outdoor stocks are excellent. In the ice box in a down-town store late last week we noted beautiful flowers of coreopsis and gaillardias, splendid in color and substance, with fine stems, very useful flowers. Daisies are fair. We have seen good Shastas, fine field daisies and good yellow marguerites, but these seem to vary from day to day, while other stocks, such as candytuft, lily of the valley, stocks, forget-me-nots, snapdragons and cornflowers all help in the display. Water lilies are fine and a natural touch is given to several windows by arranging small ponds with these and young ducks, a cool-looking and attractive feature. Trade is not good and in many cases retailers and their assistants are getting the vacation idea in their head. But we hardly expect a rushing business now and retailers are not worrying over it.

Appropriate Floral Tribute.

The somewhat unusual floral piece herewith illustrated was made by the Gude Bros. Co., Washington, D. C.: "Good Night, Sweet Dreams," was a favorite selection, composed by the blind Professor Bishop, a noted composer of music. The stephanotis so freely used in this piece is reminiscent of old times.

Wreath of Callas and Carnations.

SEE SUPPLEMENT WITH THIS ISSUE.

Callas are bold looking, handsome flowers that are always popular in floral designs of any kind, especially in wreaths or crosses. Used alone they have a dead looking effect that is not satisfactory but in conjunction with other and lighter flowers they are excellent. As in using most large flowers a natural pose is best, but callas may be used in a variety of positions and are pretty in any of them. Buried in other flowers and greenery they still retain their individuality and are always singled out for praise, while standing out on the erect stiff stems they are very graceful and effective.

The plan of including a knot of violets, lily of the valley or some other small flower is a good one. It removes any possible chance of flatness or stiffness and has a charming effect when carried out well. The continuous wreath is not perhaps as popular as it once was, a broken wreath or a solid wreath of one flower overlaid with other and lighter flowers for contrast being more general. But either way is good if properly carried out, much depending upon the skill and taste of the artist. Selection of suitable ribbon for wreaths, using colors that do not clash with that of the flowers, is also a point needing care.

KEY WEST, FLA.—A new and desirable industry which has been recently established in this city is a floral depot, which is located at the corner of Margaret and Southard streets. This new enterprise is in charge of Shaw, Scott & Paschall, and there is every reason to believe that it will be successful. The depot will be supplied with fresh cut flowers, shipped from Cuba.

The Development of the Retail Trade.

A paper read by Frank Danzer at the Detroit Florists' Club, June 21, 1909.

During the past winter we have had occasion to listen to some very interesting papers which spoke of local floricultural conditions some 30 years ago. For me to speak on the development of the florist business in the country may be somewhat presumptuous still I may be able to bring out some facts which will do some good to all of us.

THE EARLY DAYS.

The beginning of floriculture in America can be traced to the year 1824, and its birthplace is Philadelphia. Product and methods were then very crude, but only a few years later, 1830-40, the building of greenhouses commenced and herewith the production of a better class of flowers. From that time on to the present the demand for palms, ferns and cut flowers has grown faster than the regular agricultural branches.

The wholesale value reported in 1905 was $18,432,522, and considering that the cost of merchandising the product or, in other words, the selling expense to which the retailer is subject to, necessitates a value increase of 100 per cent, it is fair to assume that the retail value of the above is $50,000,000. The annual income from the sale of cut flowers is by government statisticians estimated at from $12,000,000-$14,000,000 divided approximately: Roses, $6,000,000; carnations, $4,000,000; violets, $150,000; chrysanthemums, $500,000. The total investment in land and buildings of 6,159 establishments is $50,708,671.

Of artificial fertilizers $316,038 worth are used; wages paid, $4,155,979, at 22 per cent higher than any other line of agriculture. The state of New York reports 983 establishments with 10,690,777 square feet of glass. Illinois has 499 establishments with 8,414,514 square feet of glass. Michigan has 215 establishments with 2,089,878 square feet of glass. Arizona has one establishment with 300 square feet of glass. The average prices obtained for flowers between New Year and Easter, exclusive of American Beauty roses, follows:

Roses.

	New York.	Chicago.
1890-91	$5.25	$6.00
1892-93	4.00	5.00
1894-95	3.50	4.20
1896-97	5.25	6.20
1898-99	6.00	6.00
1900-01	6.50	6.25

Carnations.

	New York.	Chicago.
1890-91	$2.00	$2.50
1892-93	1.62	1.80
1894-95	1.62	2.40
1896-97	1.75	2.25
1898-99	2.25	2.75
1900-01	2.50	2.00

Violets.

	New York.	Chicago.
1890-91	$1.00	$1.00
1892-93	1.15	1.60
1894-95	.85	1.00
1896-97	.67	1.00
1898-99	.55	.95
1900-01	.50	.75

This is a fair résumé of the result of 75 years of earnest hard work, a business, an industry, a luxury developed from nothing prior to 1824 to the enormous annual production of $50,000,000 worth of merchandise. How was this brought about? To whom belongs this great achievement? That is hard to tell. Every community has its pioneer in our trade as well as in any other. We all know them, have heard of them and honor them for the great work they have done for us, blazing the trail so we may today walk on an even road to further success. Those who smoothed the way for us, did not do it in marble palaces; they offered their product in the open market and on the street. The law of evolution is just as severe with us as any other business. The method of selling flowers on the street, which many of us despise so much today, was the beginning of our legitimate business. The people who today come in the store buying carnations at $1 per dozen and expect a gilded box with them and an automobile delivery, years ago were satisfied with inferior goods bought on the street corner wrapped in newspaper.

UNUSUAL FLORAL DESIGN BY GUDE BROS., WASHINGTON, D. C.

The nation has grown in wealth, its people have started to indulge in luxuries and the wise ones among us whom we today admire, or envy according to our disposition because of their success, are the ones who took advantage of the trend of the times and produced and arranged what they produced in accordance with the demand. Right now we are in the midst of a period of evolution and many have seen that the strain of producing and retailing is too heavy for one mind to control successfully.

There must be a complete diversion and still a complete harmony. A field of opportunities as great as ever lies before us if we only know how to grasp it. The daily increasing luxury in private homes opens up large avenues of development in our trade, and, as the retailer becomes acquainted with these facts, as he realizes the opportunities before him, he arranges his salesroom, his fixtures, his plants and flowers not only to meet this ever increasing luxury, but to lead on to it and create demand for his ware. To enable him to do this, he must harmonize with the grower and he in turn equips his establishment to be able to produce the quality demanded.

While doing this, we are not doing anything strange; it is simply a repetition on a larger scale of what our forefathers in the business did for us. In this constant pushing ahead of our product lies the secret of our past successes, and here most of the future will find its satisfaction. The fakir fills the same place today that we filled years ago ourselves, and he is doing us a great favor by educating a large number of people into the habit of buying flowers. It will be only a short time before today's buyers of street flowers will become buyers of store flowers.

THE PUBLIC APPETITE.

The future will be the consequence of our present action. We can make it a great success and sell $100,000,000 in a year 10 years hence, or only

$50,000,000 as we do today. The public appetite for our product has been awakened; all we have to do is to sharpen it. Other industries are showing how. Their principle is to show what can be done. No product will lend itself so well to create a demand, or a desire to possess as flowers and plants. For a community of florists to unite in a supreme effort and show the public what they can do by arranging a public exhibition, is the next step that should and must be undertaken.

Our product does not stand for the expense of daily advertising, and the only way open for us to impress the public of our right to exist, to be considered by them to be a necessity for them, is by periodical exhibitions. We may shrink from it, and delay, but it means only that much delay from reaching the top. Some of our sister cities have recognized the value of exhibitions, and are today spoken of as flower cities.

Looking back at the statistics, we notice a decline in prices from 1890 to 1900, it is not always in actual dollars and cents, but knowing that the average product of 1900 is far superior to that of 1890, this decline might be alarming were it not for the fact that it is one of the great reasons of our tremendous success.

The florist, unlike any other tradesman, has chosen the public as his partner. We are constantly straining our nerves to produce larger flowers, better flowers, still we do not ask any higher prices. We may find fault with this and, putting the ear to the ground, we can hear the grower growling because the retailer does not pay any more than usual, still were it not for that our ware would not be in the demand it is. The grower may be put to some additional expense in producing the higher grade of flowers, but still much greater is the expense the public has put on the retailer in selling and arranging and delivering.

GREATER VARIETY NEEDED.

It might be well to touch here the subject of finance, but this in itself is too great a subject to speak upon now. Still one point I like to urge before closing, and that is: Why do we confine ourselves to so few flowers? Truly carnations and roses are favorites, but only because we made them such. There are many others which deserve our attention and the public will be very thankful for them. In fact, our future development depends on the production and evolution of a much larger variety of cut flowers. Like other industries we must bring forth new products to entice the buying public, and, like our forefathers in the business have done, we must profit by their experience and by producing new and better varieties, place a distinguishing mark between the trader at the curb and the legitimate florist.

Fine Boston Fern Grown by Amateur.

A correspondent of Carl Cropp, of Vaughan's Seed Store, Chicago, writes to him as follows, enclosing the photograph from which the accompanying illustration was made: "This is a photograph of a fern you sent my wife for a birthday present just two years ago. It has 117 fronds, the longest of which measures 7½ feet." Pretty good this for a lady amateur.

THE ROSE.

Planting Young Stock.

A few suggestions in reference to planting the young rose stock, which is our most important work at present, will be a timely topic, and there is no denying the fact that there is a great deal involved in handling the stock as it should be. These suggestions are only a repetition of what has been often quoted in these columns, but perhaps they will in a measure help the grower lacking experience and for this reason more than any other they are given:

An Amateur's Boston Fern.

In the first place, the houses should receive a general overhauling. After removing the old soil, wash the benches off and clean carefully underneath them as well as in the walks. Be liberal with the lime wash on side walls as well as the bench boards and when slaking the lime use about two pounds of flowers of sulphur to a bushel of lime. An ounce of carbolic acid added will destroy much vermin and will do no harm to the plants. Now in order to get the good effects of the lime wash, it is not necessary to have it as thick as cream. What is more important is to have it penetrate the boards and by applying it immediately after slaking, while hot, a thin solution will answer the purpose.

The next step will be the filling of the benches and properly preparing the soil to receive the plants. The soil should be broken up finely and should be in a dry condition by all means before undertaking the planting, not as dry as dust but dry enough to settle closely around the roots when tamping around the plants, instead of forming a concrete base around the plants which it will come quite near doing if the soil is handled wet. Wet soil will never get into just the proper condition throughout the season so it will be seen that the condition of the soil makes a great difference towards establishing the plants quickly. When planting grafted stock it is necessary to use more soil, five inches being the least one can use in order to have the splice covered after the soil is leveled; for own root stock from 4 to 4½ inches will be sufficient. If the plants are especially well grown the latter depth of soil will be preferable. Now for the spacing of the plants. Bride, Bridesmaid, Golden Gate, American Beauty, and the sturdier growers will require a little more room than Killarney, Richmond, and My Maryland, as the latter varieties have a very upright habit of growth. The former can be planted 16 inches apart in the rows and 12 to 14 inches between the rows. A four-foot bench will take four rows of plants nicely, by planting the outside rows five inches from the edge of face boards, and the spacing of Killarney, Richmond and My Maryland can be 14 inches in the rows and a foot apart across the beds.

Be sure that the soil is firmly packed before beginning to plant and it is very important to have the soil gone over by hand and well broken up before leveling and packing. The packing can be done by hand also, care being taken to have the soil pressed firmly at the sides of the beds which usually contain the coarser soil. After leveling the soil the quickest method of marking off rows, is to take an old sash bar or similar stick, drive nails through it at the distance desired crosswise of the beds and an extra long nail to act as a guide on the bench siding. With a man on each side of this rake four, or more rows can be quickly marked and they will be absolutely true and the work of laying off the whole bed can be done quicker than it would take to stretch a line for a single row. The wise grower will have more plants than are required to do the planting so that only select plants may be used. If not the importance of this precaution in the future will be seen. Look carefully at the splice of each grafted plant used, and see that all are sound and perfectly joined; otherwise there will be an unsightly space here and there during the winter, as it is usually some time after planting that the poorly spliced grafts go to pieces. The own root stock should be as carefully gone over; avoid using those plants with weak watery looking foliage, streaked or yellow in appearance or those with black stems commonly called "black legs." The bark should be healthy and green in color down to the pot. As stated above the balls of the plants should be placed well down so that the splice will be entirely covered when the beds receive their final leveling. Before planting take a stick and work off the distance the plants are to be in the row, and make dents in the soil along one of the rows the entire length of the bed. By placing the plants along this row the other rows can be laid out opposite. Open up the holes with a trowel, making them large enough to take the ball without crushing it. Do not remove the drainage as it does no harm and

very often the roots are too much disturbed by removing it. Press the soil firmly around the ball and level around each plant. Have a man follow up the planter with a tamper made of a 9-inch length of a 2x3 block of solid wood rounded off at one end to form a handle. Do not tamp over the ball but around the edge with care so as not to crush it. After tamping leave a saucer shaped depression around the plants so that they may be watered individually for several weeks, or until they have made a decided start at the roots, then the soil can be leveled off and given a general watering as they require it.

The stronger plants will naturally dry out more rapidly than the small ones and the depression offers the only means of giving each plant the required amount of water. It will also be necessary to keep the surrounding soil moist on the surface to reduce the heat and to give the plants a general bracing up. Avoid over-watering and extreme dryness and, in order to have the plants become quickly established, syringe very early and again at noon. Although it is claimed by some that to spray the young plants overhead in the middle of the day is harmful, we have found them much benefited by this treatment which greatly reduces the temperature and keeps the air humid, a condition essential to plant growth indoors or outside. In reference to carried-over stock; when shifting it from benches to solid beds we prefer to do very little pruning until the plants are well established in their new surroundings. Then we prune carefully at intervals. We let them dry up for a week or 10 days keeping up the syringing so they will not receive a sudden check. Lift them with 10-inch balls and plant low enough so as to have the top of ball just below the surface. Use a sharp spade to cut out the plants and trim off the surplus soil after lifting them carefully with the hands. Use sufficient help to handle the work rapidly; syringe several times daily until the plants brace up and avoid draughts. Special treatment is required for the plants to be carried over another season without removing them, but as it will be sometime before this work will require attention we will leave this for another note. E.

Cypripedium Bellatulum Album.

This is a pure white form of the distinct and beautiful Cypripedium bellatulum, a plant not remarkable for size of bloom but a remarkably beautiful and interesting orchid. It has long been the idea of orchid growers that lime in some form is beneficial to the bellatulum section of cypripediums. Whether this is so or not we have seen remarkably fine specimens grown in a compost in which large nodules of limestone were used and we never had such good foliage and flowers on C. bellatulum as when the loam used in the compost was cut from soil overlying limestone. All the varieties are very beautiful plants, the flowers being attractive and the foliage even more so. They like a shady position and a warm moist house and must not be overwatered in winter. Grow them in small pots in a compost of equal parts of loam and peat with a good sprinkling of the limestone referred to and some sphagnum moss.

THE CARNATION.

Holding Over Carnations.

ED. AMERICAN FLORIST:—

If not mistaken, I read in your paper about hold over carnation plants doing just as well the second season as the first, and that they will come earlier than young planted stock. Please give through your paper what information you can on that question and what kind of stock. I have White and Pink Lawson and Enchantress. I have one house that is very late, plants stocky and healthy.

A GREEN HAND.

Colorado Springs, Colo.

Nearly all of the standard varieties of carnations have considerable free or perpetual flowering blood in their composition, consequently it is perfectly natural to carry them over for more than one season. During the writer's early experience we grew the same plants from year to year for three and four seasons, giving them short periods of rest or cool treatment between crops, but this was before the days of flowers with long stems. Replying to that part of the query as to the plants doing equally as well the second season as the first, this may be possible early in the season, but taking month for month during the entire season the new stock will show up to considerable advantage.

If we were going into this method of culture now we should lay plans at the time the plants are put into the beds by planting them farther apart than usual, also adding an inch or so to the depth of the soil and to mulch frequently during the first season at intervals as the plants will take care of it without giving them a setback. The plants may then be given the closest attention to carrying them through the summer to prevent red spider infesting them; this with the work of keeping them free of aphis will be found the most difficult part of carrying over the plants. Coming to the point of the kind of stock under notice the plants being late stock and healthy, they are in the best of condition to experiment along these lines. The varieties mentioned, White and Pink Lawson and Enchantress, are among the best of growers and respond readily to being transplanted and also, if not enough new stock is on hand, they can be bought cheap. Taking this into consideration we would advise against carrying over the old plants. C. W. JOHNSON.

Notes in Season.

The plants in the field must have close attention now; the ground should be kept clean of weeds and the cultivators kept busy right along. Be careful to keep the shoots pinched back; this part of the work should be done as quickly as the growths get large enough to handle properly, it being equally detrimental to the plants to top back the shoots too early or to leave them to get overgrown. Another important item connected with the field culture, especially at this time when heavy thunder showers are a frequent occurrence, is to guard against any standing pools of water. If there are any low places cut little ditches to carry away the water. Standing water around the plants during the summer is one of the causes of stem rot.

That bench or two of old plants being carried along for a few flowers that come in useful should be kept trimmed and disbudded, plenty of ventilation given and watered as they require it. The plants will also be greatly benefited by a dressing of pulverized sheep manure occasionally. The work of getting the plants intended for indoor summer culture into their permanent quarters should be pushed forward without delay now. If the plants are being held close together in beds it is best to treat them to a slight drying off a few days before planting to harden them a little, but when lifting for planting the soil should be thoroughly moistened. This also applies to stock being grown in 4-inch

CYPRIPEDIUM BELLATULUM ALBUM.

pots. The houses, benches and all connections should be thoroughly cleansed and sweetened as is customary before bringing in the soil. The soil should be thoroughly pulverized and in a partly dry state. It is a mistake to handle soil for carnations when it is wet and heavy. We make the compost for our carnations one part of well rotted cow manure to four of soil, with a dressing of bonemeal worked into the beds just before planting. The soil should be made firm, but not solid, before planting, and the plants set 10 inches apart each way. Shade the glass lightly at the time of planting; it is best to do this with a syringe so that only enough to break the direct rays of the sun is put on. C. W. JOHNSON.

The Bursting of Carnations.

Carnation growers are familiar with the often serious tendency of the blooms to split the calyx, or burst, as the trouble is commonly called. The immediate cause of bursting appears to be a too rapid or premature petal development before the bud as a whole has made its growth. It is very prevalent in some varieties. F. Dorner, Sr., says: "There are numerous varieties which habitually split the calyx and are worthless. There are also some which under certain circumstances split what appears to be the strongest kind of a calyx, while, on the other hand, some large flowers are held intact by an apparently weak one." It goes without saying that worthless varieties should be abandoned. Growers have learned from experience, however, that unfavorable cultural conditions may cause serious cases of bursting among varieties which are profitable bloomers when properly grown.

Although there are well-established methods for the general culture of greenhouse carnations, certain varieties differ sufficiently in their requirements to call for specific treatment in some form or other. Such specific treatment must be determined from cultural experience. On the other hand, the fragmentary literature on the subject of bursting would seem to warrant the general statement that plants which have been hardened off or grown slowly, whether through a low temperature, dry soil conditions, or a lack of fertilizer, are very apt to produce bursted blooms when suddenly overstimulated either by too much heat, moisture, or plant food, or through some unfavorable combination of these conditions. The Maryland Experiment Station reports an investigation along this line, in which it appears that a location unfavorable for uniform temperature and moisture conditions will aggravate the bursting tendency. Such a location is found in the rear part of a side bench, when there is no space between the bench and the wall. "It was noticed that the row of carnations located near the glass of the side benches produced more bursted flowers than did the other rows on the benches. During the winters of 1904-5 and 1905-6, a record was kept of the good flowers and the bursted flowers on the different rows. The row nearest the glass produced 21 per cent of bursted flowers, while only one other row gave as high as 7 per cent. It was found almost impossible to secure uniform conditions near the glass, the soil drying out badly, although receiving a normal supply of water. Many growers find less trouble with this bursting of the calyx when the benches are so placed as to allow a walk between them and the side walls."

The walk next to the wall provides for free air circulation around the bench, thus lessening the danger of excessive sun heat and, in some cases, of excessive bottom heat as well. Side ventilators can be used with greater safety and the bench will be given closer inspection.

Silver Wattle (Acacia Dealbata).

Reproduced From the Garden.

The Rhode Island station recently reported an experiment in which the principal object was to determine what influence, if any, nitrogen has upon the tendency of the calyx to split open. Three varieties were used in the work in order to determine whether the same results would be secured regardless of varietal tendencies. The varieties were Hector, Wm. Scott, and Lizzie McGowan. "A long, narrow bench was divided into two equal beds, each 26 inches wide by 8 feet 9 inches long. Like amounts of subsoil were then placed in each. The manurial treatment was identical, excepting that on the east plat no nitrogen was applied, while on the west plat nitrogen in a nitrate, an ammonium salt, and inorganic matter was applied." The experiment was carried on for two years.

With nitrogen in the manures a great advantage resulted with the variety Hector, both in salable flowers and the number of those with a perfect calyx.

With the variety Lizzie McGowan, the results were in favor of the use of the nitrogen, especially the first year of the trial, but were far less marked than with Hector.

In the case of the variety Wm. Scott, the results were better where nitrogen was omitted than where it was employed.

The results show that when the house is maintained at the same temperature, generous manuring with nitrogen may increase the total number of perfect flowers of one variety of carnations and lessen the number of another variety.

Whether the same difference, as a result of the manuring, would appear if the most favorable temperature for each variety were maintained in the house is yet to be determined.

It appears probable that the character of the manures, as well as the degree of forcing, tends to affect the splitting of the calyx.

C. W. Ward, in the following words, points out how the carnation breeder may lessen the bursting tendency: "In selecting a seedling for the second year's trial, be sure of a firm, large, well-formed calyx, for if you fail to select good firm calyces a crop of 'bursters' may be your reward." The commercial grower likewise can reduce the trouble by studying the habits and requirements of the individual variety, and by so regulating the various conditions in the greenhouse as to prevent sudden fluctuations in the rate of growth. Although it is doubtful whether the bursting of the blooms can be entirely eliminated, further investigations along this line may lead to methods of control which will reduce the trouble to a minimum.—Experiment Station Work.

Acacias and Their Culture.

The Australian acacias, or wattles as they are popularly called, form a valuable group of plants for greenhouse decoration during winter and spring, while for the mild districts in the south they are excellent for outdoor culture. When grown for the conservatory or greenhouse, says the Garden, they are usually placed in pots or tubs; but where space can be afforded in winter gardens and similar structures they are first-rate subjects for planting in borders. Planted in this manner they grow rapidly into large bushes and flower profusely. One objection may be raised to planting acacias in borders, for, in the event of a specimen getting too large for its position, it cannot be successfully transplanted without going to a great amount of trouble, for few shrubs or trees are more difficult to establish after serious root disturbance. By an annual pruning from the earliest years of a plant's life, however, it may be kept within bounds with little difficulty, while the selection of varieties of moderate growth is a point to consider. Although acacias will stand a very severe annual pruning it is unwise to cut them back to old wood, for it rarely breaks away again satisfactorily.

The majority of the sorts grown in commercial establishments are increased by cuttings. These may be made from young shoots three inches to four inches long during summer. They should be taken when the wood is about half ripe and inserted in well-drained pots filled with soil composed of two parts peat one part loam and one part sand. The soil must be made firm and the cuttings should be well firmed into the soil. When inserted, stand in a moderately warm propagating case and shade from bright sun until roots are formed. The young plants should be potted singly and firmly in soil similar to that recommended for cuttings, except that only half the quantity of sand will be required. Stand close to the glass and keep the young shoots well stopped until a good foundation has been laid. When large enough to bloom, stopping should cease early in May, so that long growths may be formed which will bloom throughout the whole of their length. For large plants equal parts of peat and loam may be used, with a little sand and a handful of crushed bones placed over the crocks.

It is a great mistake to overpot plants, and it will be found much better to feed with manure water during summer than to give too large pots. Plants of flowering size may be plunged outdoors in full sun for the summer. During this period soot water once a week may be given with advantage. They should be taken indoors in September and be placed in a cool and airy greenhouse, taking care to damp the floor and stages frequently. Some sorts may be had in bloom in December, and a succession can be obtained until the end of May. All pruning ought to be done as soon as the flowers fall, so that as long a growing season as possible can be had.

Although upwards of 100 species are known, a dozen or so can be selected as being well in advance of the majority for ordinary purposes, and the sorts mentioned in the following notes may be depended on to give a good account of themselves. A. dealbata, a tree commonly called the silver wattle, by reason of its pretty silvery foliage, is a most floriferous plant when allowed free growth, its little fluffy, yellow balls of flowers being borne in countless numbers. It does remarkably well when planted out, but is not a very good pot plant. It is the so-called mimosa of commerce. A popular plant for pots is A. Drummondii. This under border culture rarely grows more than four or five feet in height, and when grown in a 5-inch or 6-inch pot it attains a height of from 1½ feet to two feet by nine inches to one foot in diameter. Its yellow flowers are borne profusely. It thrives better in peat and sand than in soil containing a lot of loam.

A. armata is also a useful and popular plant, while its variety angustifolia is of peculiarly graceful outline. A. Riceana and A. leprosa are a pair of elegant shrubs suitable for planting against a tall pillar or for pot culture. The long, wand-like branches are very graceful and bear flowers throughout their whole length. A. cultriformis is well known by reason of its lovely glaucous leaves and rich golden flowers while A. verticillata is a free-flowering plant of great value for either pot or border work. In addition to these the following sorts are worth attention: A. Baileyana, A. hastulata, A. juniperina, A. longifolia floribunda, A. myrtifolia, A. platyptera and A. verniciflua. All are free flowering, and in each case the flowers are one or other shade of yellow. As acacias give comparatively little trouble, they are excellent subjects to use for the conservatory in companionship with forced bulbs and shrubs during the winter and spring.

THE PIKE'S PEAK FLORAL CO'S HOME PLANT.

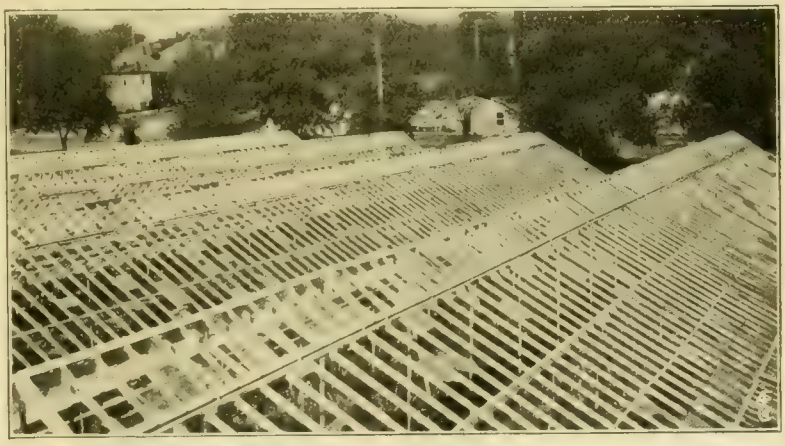
Protection by Screen Avoids All Damage by Hail.

Protection From Hail.

Owing to the pressure on our space last week caused by seed trade convention matters the accompanying interesting illustrations had to be held over. They show very distinctly the value of protection from hail. One is the home plant of the Pike's Peak Floral Co., of Colorado Springs, Colo., the other, the one so badly injured, being the new plant recently purchased by the company from Wm. Clark. This little picture tells the tale of hail destruction better than words. Probably 90 per cent of the glass was lost in addition to great loss from bedding plants and other occupants of the houses.

The screen used on the house in the first picture was No. 20, three-quarter-inch mesh galvanized wire, galvanized after being woven, that is bought in bales containing about 900 square feet. The wire is stretched across each house in a continuous sheet not longitudinally and where the ventilators are hinged to the ridge ½-inch galvanized iron pipe is run along the ridge of the house, high enough to keep the wire well above the ventilators when these are extended to their full capacity. This horizontal support is fastened by T joints to upright pipes of similar dimensions which are attached to the house by screws or bolts, the uprights being placed at intervals of 10 feet. Each two widths of netting are fastened at short intervals to keep them from sagging and coming apart.

The home plant has an area of 75,000 square feet and the manager here does not consider the screen any detraction from the appearance. It causes no deterioration to the stock by shading though it has been left on continuously during the winter. This procedure might not be practical in climates where snowstorms are frequent and where the sun is not so bright as in Colorado, but in this favorite climate at any rate the end certainly justifies the means.



HAIL DESTRUCTION AT THE PIKES' PEAK FLORAL CO., COLORADO SPRINGS, COLO.

Unprotected Houses With 90 per cent of Glass Broken.

The plant injured so badly is to be entirely remodeled and will be ready as usual for the fall business. Other local men lost considerable glass by the hail, John Smith, Frank Hayden and F. F. Crump being among the unfortunate ones. The latter lost about one-third of his glass. J. B.

Field-Grown Chrysanthemums in Eng.

Ours may not be an orthodox system of chrysanthemum growing but it is a profitable one for us. We grow for cut-bloom, large and small, for bunching all for market. The plants are grown outdoors and all are lifted, except a skeleton house or two which are canvased. We have glass at liberty only from early November to January being fully occupied all the rest of the year with tomatoes and cucumbers. The chrysanthemums are followed with a crop, sometimes two, of daffodils and tulips. We lift the chrysanthemums and plant before frost. After cutting is over we lay the old roots in boxes and frames for stock. We take no cuttings but depend on the rooted offshoots for field work and these do well. Our first batch is now being topped, but we have still more to go out. We wait for rain then plant out quickly, all hands to the job. No water is given after planting.

We made the equivalent of 60 cents per dozen blooms of Western King this season. Now (mid-June) we are not only topping the growing shoots, but also cutting back into the hard wood, if plants are leggy. Our varieties are the Quintus family, Western King, Money Maker, Lizzie Adcock, Niveus, Nivette, Jubilee, Source d'Or, all planted out about the last week of April. We find the later planted a very useful line, coming in when the bulk of the first-lifted are done. Hoeing the fields, and manuring, applying soil as required with the necessary staking and tying, make up the summer culture. In lifting we depend much on the late autumn rains, the plants then lifting with balls, sustaining little check.

Australian Shrubs as Grown in California.

[A paper read before the Pacific Coast Horticultural Society, San Francisco, by T. F. Taylor.]

The first thought that naturally comes to one when the subject of Australian shrubs is broached, is on eucalyptus and acacias; but as this paper is to deal only with shrubs, gums are not to be considered and, furthermore, gums alone would furnish splendid material for a paper at a future meeting, particularly as at the present time a decided interest is being taken in this state in eucalyptus culture and to the extent and value of the wood of various varieties as to its adaptability for building or other constructive purposes.

As the purpose of this paper is not merely to catalogue all, or the majority of the Australian shrubbery, but rather to enumerate those which have been the most useful under trying conditions in this vicinity, those which have lent themselves most readily to the art of landscaping, or have best given forth their strange and unusual beauty of form, foliage, or flower, let us pause, figuratively, under the fragrant shade of the acacias. The air is redolent with a soft perfume that is reminiscent of our youthful days, when we chewed on licorice sticks with an appetite that had not been perverted by chooclate creams, butter-scotch or brown pressed plugs of something with little tin tags on them.

But back to the present and to our much admired friends Acacia floribunda and A. fragrans. The latter has been much used as a street tree in the past in this city with good results; when not placed in an exposed position, it forms a good shapely head and responds to the knife quite cheerfully, besides presenting a lively, pretty appearance with its profusion of fragrant yellow bloom. A floribunda is much more trailing or straggling in habit with longer, tougher foliage, borne with a graceful abandon peculiarly its own. Its fragrant flowers appear in such pofusion that it well merits its specific name of floribunda. Of the two it is much the hardier, where exposed to wind, and when established will withstand severe drought. This is very important in a climate like California where we have a period of six months or more without rain, annually. There has been in all probability no more widely grown shrub in this state than A. longifolia, which is more popularly known as A. latifolia. It has been more largely used as a street tree in this city than any other tree, being a fast grower, unmindful of neglect, withstanding with its inherent vitality the dust and wind, the prospective president in embryo with his jackknife and even the devastating hedge shears of the French gardener. Where it is desirable to cover an exposed wind-swept piece of ground in a short space of time with a low shrubbery, Acacia latifolia naturally suggests itself; in fact it may be accepted as an axiom by the gardener "When in doubt, plant Acacia latifolia."

The west end of the Golden Gate park in the immediate vicinity of the beach shows the remarkable hardiness, the vital tenacity and the superior adaptability of A. latifolia as a shelter from wind or the cutting sand which is carried with it. And A. lophantha; every old time native son knows it; he used to and still calls it the stink bean tree. He used to take the green beans of it to school and tramp them on the floor to annoy the teacher with a foul odor that might drive her from the room. He usually succeeded, but that does not alter the fact that A. lophantha is a remarkable sand tree, at all times presenting a beautiful feathery appearance attracting the attention and admiration of all who see it for the first time.

A. Coulterii with its low, spreading, graceful habit and striking grey foliage is probably the most decorative of the acacias and would probably appear to excellent advantage in large rockwork. A. melanoxylon is one of, if not the most, valuable street trees for San Francisco; it is not quite as hardy for the first season as A. latifolia but is an ideal tree for form; it differs from the average acacia in that it requires a stiffer clayey soil and in time becomes a tree of goodly proportions.

A dainty shrub at all times is A. Bayleyana, but when in blossom a reigning queen of beauty. It is hardier than its appearance would indicate but requires occasional watering during the summer. A. armata, A. verticillata and A. callamistrata are distinct types highly ornamental and useful in large plantings. A. dealbata, in congenial positions, assumes the proportions of a tree generous in proportion and more so in the profusion of clusters of beautiful yellow flowers which obtain a ready sale in the florist's stores. If Australia had given us only of her acacias we should be under a heavy obligation.

THE PITTOSPORUMS.

But what of the pittosporums? The two best known varieties are Eugenoides and Nigricans. Each one is prettier than the other. Which one? P. eugenoides has the larger foliation and with its smooth shiny leaves of a chrome green tinge is one of our most desirable shrubs. P. nigricans has a more upright growth, smaller and darker foliage with blackish branches and seems to harmonize readily with the majority of shrubs; but one of the chief charms of these two varieties is the quaint delicious odor emanating from the modest little purplish flowers half hidden in the foliage, an odor that gently assails one in a manner reminiscent of the sweet brier in the older countries, after a rain. Both varieties named are being used for hedges and are a relief from the sombre stereotyped hedge of cypress.

The casuarinas form an interesting group, one of the most striking of which is C. equisetifolia with its unusual equisetum like foliage, drooping and graceful, making a pleasing effect as a single specimen alone. It is also unusually hardy. Others of more than ordinary interest are C. suberosa and C. leucadendron. The melaleucas or, as they are apty named, the "bottle-brush," form a welcome addition to our hardy shrubbery; and the coprosma, what shrub has the same intensity of color? Its greenness is almost luminous and its handsome orange red berries form a rich contrast to its foliage.

One of the very best of the park shrubs assuming a tree form is Tristania conferta. This shrub or tree as it may eventually be, is quite beautiful, symmetrical in growth, pretty brown bark, the broadly ovate lanceolate leaves being tipped with a metallic reddish luster hard to describe. It is one of the myrtacæ closely allied to the gums and during winter bears a number of pretty white blossoms closely resembling those of Eugenia apiculata. This plant is well deserving of attention and should be given a place in any decorative planting of consequence. It would harmonize with and relieve large plantings of lilac of their tameness when out of flower.

DRACENA INDIVISA.

If there be any one plant more than all others combined that has given a touch of the tropics to the appearance of this city it is Dracæna indivisa planted on our streets or in our parks and gardens. These very useful shrubs withstand the wind, indifferent planting, poor soil and neglect in a manner worthy of admiration. Quite true, the stems do present a rather bare appearance when the plants become tall, but then the average house gardener would trim them that way anyhow. I believe that if one of those knights of the hedge shears were to meet a feather duster in the garden he would trim the whiskers on it till it would look like a window brush.

And then there is Eugenia myrtifolia with its shining bronze foliage forming an elegant contrast or rather harmony with similar forms of shrubbery having the usual shades of green; and E. apiculata, a gem of loveliness when decked in its blossoms of white; and speaking of white is there anything growing outside more sweetly chaste than those clean pure blossoms of the white swainsona? What a pity it gows so readily, otherwise the florists and the public might rave over it. Clianthus puniceus is another of the

Australian shrubs which has made itself at home here. Outside of our parks it is seldom grown as a shrub. It trains very readily, and how many dull old fences have been covered up by its refreshing green foliage and its odd pendulous clusters of clawlike flowers that have so aptly suggested the common name of crabclaw.

OTHER GOOD SHRUBS.

Myoporum lactum has proven a valuable acquisition to our shrubbery. It is a very vigorous handsome shrub and has in a marked degree that desirable characteristic of the Australian shrubs, the ability to withstand our dry seasons without irrigation. It appears to be equally hardy in our hot dry valleys or close to the ocean shore exposed to the harsh sea winds. And we have the corynocarpus, hakeas, myrtles, ericas, the gorgeous Sterculia acerifolia and the dicksonias, alsophilas, other tree ferns and palms, which, like the gums, will furnish a paper of themselves, and we might go on and on like Longfellow's brook, for the further one goes into Australian shrubbery the more he becomes aware of the vastness of the subject and the dearth of knowledge we have of that country of animal and vegetable wonders. Where is there a shrub in which there is combined so many admirable qualities as in Leptospermum lævigata? There were no colored plates in the text books to herald it as being anything out of the ordinary, but in Golden Gate park it has received its full meed of appreciation. Out at the very edge of the beach where the spinthrift of the waves adds its share of moisture to the dreary fog, out where the sand laden winds swirl and cut like needles, there this remarkable shrub not only exists but thrives. In many portions of the park may be seen handsome clumps gracefully informal, while on the other hand it may be seen in formation of excellent hedge, while again with a little encouragement it entirely embowers a stretch of walk producing a perfect ideal arbor effect, which in the early summer is a delight to the eye when the trailing or drooping foliage is heavy laden with its wealth of pretty white blossoms.

It is worthy of mention also that leptospermum may be used to excellent advantage for decorative purposes; your huckleberry of the florists is stiff and artificial in comparison; name for us another shrub with the versatility of our lowly modest leptospermum. There is also a very interesting variety well named Cricafolia which is quite pretty when in flower. But I am again reminded of the babbling brook and will close with the hope that collectors or importers may be induced to send us many of the Australian shrubs which to us are only names in certain text books, or that some one having the ways or means to introduce them will in spirit of good will towards the horticulture of our favored state grasp the opportunity to add to our shrubbery some of the many desirable, but to us unknown shrubs which we may consistently believe are yet to be introduced from the land of the acacia and the leptospermum.

To Be Done Now.

IN THE GREENHOUSES.

Push on with all repairs to benches, painting and heating alterations at every opportunity.

Reduce the water supply to the rose benches that are to be held over for flowering another season, but keep the tops sprayed occasionally.

Don't try to hurry Begonia Gloire de Lorraine in the hot weather. In another few weeks will be plenty of time for the plants to make free growth.

Allow no rubbish or old flowers to remain on the rose benches, as this attracts and forms a hide for thrips and other insects.

The last sowings of asters for flowering under glass after the open air flowers are past should be made.

Continue to repot all young stock of dracænas, crotons and ornamental foliage plants generally and work them along while there is plenty of room in the plant houses.

Tomatoes can hardly be overfed if the atmosphere around them is kept cool and there is a good set of fruit on the plants.

Pot rubbers as soon as the roots show through the moss and ring and moss others.

Place the amaryllis bulbs in a light position, not under benches in the dark. Absolute dryness is not necessary, but do not go to the other extreme.

Keep all flower buds picked from begonias and geraniums for winter flowering, bouvardias and the latest fuchsias.

Clean over the benches of Asparagus Sprengeri and leave no short, stubby shoots or seeds, as they prevent the production of good, useful shoots.

OUTDOORS.

Keep down weeds, such as coarse grasses and plantains in the lawn. The plantains ruin the grass around them and the coarse grasses spread their roots below as fast as the leaves above ground, making them difficult to eradicate.

Never let the wild mustard or similar weeds go to seed or they will cause untold trouble in the coming seasons.

Never trim the side shoots on standard fruit or other tree stems too closely. These act as stem thickeners if allowed a reasonable amount of liberty.

Always have a pair of secateurs in hand when making the rounds of the nursery rows to remove shoots that are going in wrong directions.

A little mignonette sown now will be very useful for cutting later in the season when other flowers are over.

Gather sweet peas carefully with a sharp knife to avoid injury to the vines.

Stake and tie all plants in the herbaceous border that need this attention, such as the giant asphodels, eremuri and others.

Trap earwigs and other insects around the dahlias, as they will give much trouble later when the flowers begin to open.

Look out for improved varieties, as the seedling herbaceous plants flower and mark them for propagating.

Leave no crops on the land that have ceased to be of value. Dig or plow them under, where they will benefit and not impoverish the soil.

Remove the flower stalks on rhubarb, sea kale and similar roots on sight.

How to Color Flowers.

With a simply made mixture a wonderful change may be made in the color of flowers. Take a small glass, but one large enough to dip flowers with which to experiment, says the Pittsburg Dispatch. Pour into the glass a small quantity of ether and to it add one-tenth of that amount of strong ammonia water. The mixture will now be ready for use, and with it any flower that is either violet or red in color can be changed to a bright green. The magical effect is almost instantaneous; for instance if a violet is dipped into the fluid it will immediately turn green. The same effect will follow with a red rose or geranium, the periwinkle, lilac, heliotrope or red carnation. All of these flowers will respond to this simple treatment.

The violet-colored sweet pea, when dipped into the mixture, will come out with its upper petals a deep blue and the lower ones green. White flowers treated in this way generally become yellow or deep orange, but yellow flowers seem not to be affected by the solution. The streaked carnation will turn brown and green. If some flowers are sprinkled with the fluid instead of being dipped they will present a mottled appearance instead of the whole flower becoming changed.

It is the ether that causes the effect to be speedy, as a somewhat similar effect is produced by the use of the ammonia alone, only the process is a much longer one. Another little experiment with ammonia and the aster, that fall flower and herald of the bigger chrysanthemum, is to give this odorless flower a pleasantly aromatic odor. Pour some ammonia into a deep dish, place the asters in a glass finger bowl and invert it so that the bowl containing the asters covers the dish with the ammonia in it. The fumes from the ammonia effect a change so that when the asters are taken out they will have a distnict odor.

OBITUARY.

John Crosby Brown.

John Crosby Brown, banker, capitalist and philanthropist, died at his summer home in Orange, N. J., on June 25, aged 71 years. He was senior partner of the firm of Brown Bros. & Co. of New York and Philadelphia, and head of the firm of Brown, Shipley & Co. of Liverpool, Eng. In addition to many other good works, Mr. Brown was greatly interested in horticulture, and his Orange estate has long been noted for its exhibits of chrysanthemums and other fine plants.

Daniel W. Langton.

Daniel W. Langton, a noted landscape architect and geologist, died at his home at Hoyt's Corners, N. J., June 21. He was found dead seated in an armchair in his sitting room, a small bottle clutched in his hand. Coroner Johnson, who was called, expressed the opinion that he had taken poison. Mr. Langton was a leading man in his profession with offices at 341 Fifth avenue, New York. He was a native of Mississippi, was 45 years old and had been a professor in Alabama university. Since he established a business in New York he designed a park for Jersey City and private gardens for a number of wealthy families in the vicinity of New York. He was a member of the American Society of Landscape Architects and a fellow of the Geological Society of America.

Miss Katherine Hefele

Miss Katherine Hefele died June 25 at the residence of her brother, Simon Hefele, 3361 Third avenue, New York. She was 78 years old. When a child of two years she was brought to New York by her parents from Germany. Fifty-two years ago her father, Joseph Hefele, started a florist business at the above mentioned site and though the greenhouses have given place to business and residence buildings, a store has always been maintained. Through her many years, from girlhood up to a few years ago, Miss Hefele had always been active in connection with the retail branch of the business, first with her father and later with her brother. She is survived by several brothers and sisters and a large connection of younger generations. The elder Hefeles recall that in the earlier days of their residence on Third avenue, old fashioned stage coaches daily passed their door.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:
A. F. FAULKNER, 1133 Broadway, New York.
ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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GREENHOUSE glass prices remain unchanged, with discounts still quoted at 90 and 35 on double strength, and 90 and 30 on single strength.

THE American Seed Trade Association makes a vigorous protest against the distribution of free seeds by the Department of Agriculture. There are many other good reasons why this petty graft should be abolished besides its interference with the regular trade. —Buffalo, N. Y., Courier.

"A SUBSCRIBER" should send his name and address when the matter will be gone into. His name will not be published.

THE school board at Albany, N. Y., has agreed to make its ruling as to flowers at school exercises inoperative for this year. See our Albany notes, page 1208.

BULB time will soon be around again and early forcing stock, such as Paper White narcissi, Roman hyacinths and liliums for early work should be ordered.

THE National Sweet Pea Society (of England) will hold its ninth metropolitan exhibition in the Royal Horticultural Hall, Vincent square, Westminster, July 23, at 12:30 p. m. Chas. H. Curtis, Adelaide road, Brentford, Middlesex, is secretary.

WE are informed that Edward V. Low, of the late firm of Hugh Low & Co., England, has acquired the special stock of rare and valuable orchid varieties of the firm and intends to specialize in their culture at Hayward's Heath. The collection is very rich in white cattleyas.

THE third provincial show of the National Sweet Pea Society (of England) will be held at Saltaire, in connection with the Saltaire Rose and Horticultural Society, July 13. Chas. H. Curtis is secretary of the sweet pea society and E. Wright, The Glen, Saltaire, is secretary of the local society.

BURNET LANDRETH'S idea of irrigating old eastern farms that are suffering from drought, as well as western lands as yet unoccupied, that he expressed at the seed trade convention, is well worthy of every consideration. Its importance is far reaching, even outside of the seed trade in which Mr. Landreth is interested.

THE Cincinnati Florists' Club is leaving no stone unturned to make the coming convention of the Society of American Florists the banner one of the society. Seeing that the first convention was held here 24 years ago, the club has a grand opportunity and every member seems to be rising to the occasion manfully.

American Carnation Society.

The following new carnations have been registered during the past season with the Perpetual Flowering Carnation Society of England. Growers on this side will please take notice to avoid duplication of names:

Hon. Mrs. Francis Agar, seedling, deep rose pink, registered by The Hon. Francis Agar.

Mary Vilven, seedling, rose, registered by Blackmore & Langdon.

Ranslon Gem, sport from a cross of Boyer and Victory, apricot and orange, registered by Sir Rand. L. Baker, Bart.

Rose Dore, seedling, golden rose, registered by W. H. Lancashire.

Golden Glory, seedling, yellow, registered by Heath & Son.

Ethel Whitney, seedling, crimson, registered by Gor & Whitney.

Carola, seedling, crimson, registered by C. Engelmann.

Rex, seedling, light pink, registered by C. Engelmann.

Burrough Scarlet, seedling, scarlet, registered by E. T. Johnstone.

Black Chief, seedling, crimson, registered by Hugh Low & Co.

A. F. J. BAUR, Secy.

Horticulture in the Netherlands.

A horticultural exhibition will be held at Zeist, in the Netherlands, from August 25 until September 16 next. It is organized by the Zeist branch of the Netherland Horticultural and Botanical Society, and will be extensive, the government and the province of Utrecht affording subsidies, and his royal highness the Prince Consort has accepted the post of Hon. president. Although this exhibition is in the first place a national concern, foreign exhibits will be welcomed.

National Sweet Pea Society.

The proposed National Sweet Pea Society of America will hold its first annual exhibition at the Museum of Natural History, Columbus avenue and Seventy-seventh street, New York, on July 7-8. Through the courtesy of Dr. Bumpus the society will be allowed to use the Siberian hall. The judges will be G. W. Kerr (with W. Atlee Burpee), W. Sim of Cliftondale, Mass., and Edgar A. Higgins of Avoca, N. Y.

Papers will be read by Rev. W. T. Hutchins of California, Prof. Craig of Utica, N. Y., and others. Great interest is being shown by sweet pea enthusiasts throughout the country and it is expected that there will be over 1,000 vases of sweet peas exhibited. Application blanks for charter membership, schedules and further particulars and information can be had from Harry A. Bunyard, Secy. pro tem. 342 West Fourteenth street, New York.

International Hort. Exhibition in Italy.

The city of Florence, and the Royal Tuscan Society of Horticulture have arranged an international exhibition of horticulture for 1911, on the occasion of the fiftieth anniversary of the proclamation of the kingdom of Italy. The programme contains six classes: Ornamental foliage or flowering plants, either new or of recent introduction, fruit-bearing plants, vegetables and kitchen-garden plants, seeds, bulbs and tubers, colonial plants, flower decoration, horticultural arts and industries, horticultural literature and instruction, packing and preserving, history of horticulture.

Besides numerous awards of merit (grand medals, and artistic objects), the committee places cash prizes and medals to the value of Lire 25,000 (Lire-$.193) at the disposition of the jury. At the same time as the horticultural exhibition a most important portrait exhibition will take place in the art rooms, which have recently been restored in the historical municipal palace (Palazzo Vecchio) besides other shows and amusements.

Plant Notes.

Iris ochroleuca is one of the prettiest flowers of the week.

A pretty spurge, not as yet very widely known, is Euphorbia epithymoides, a species growing about 15 inches high, and having moderately sized glaucous leaves, with heads of pleasing yellow flowers, which eventually turn off to rose. It blooms about June and July, and is a good border or rock plant. It is increased by division or cuttings.

Meetings Next Week.

Buffalo, N. Y., July 6, 8 p. m.—Buffalo Florists' Club, Saturn hall.
Butte, Mont., July 9.—Montana Florists' Club, Columbia Gardens.
Cincinnati, O., July 10, 8 p. m.—Cincinnati Florists' Society, Jabez Elliott Flower Market.
Davenport, Ia., July 8.—Tri-City Florists' Club.
Dayton, O., July 5, 8 p. m.—Dayton Florists' Club, 37 E. Fifth street.
Detroit, Mich., July 5, 8 p. m.—Detroit Florists' Club, Cowie building.
Grand Rapids, Mich., July 5.—Grand Rapids Florists' and Gardeners' Club, Board of Trade rooms, Pearl street.
Hartford, Conn., July 9, 8 p. m.—The Connecticut Horticultural Society, County building.
Indianapolis, Ind., July 6, 7:30 p. m.—State Florists' Association of Indiana, State House.
Louisville, Ky., July 6, 8 p. m.—The Kentucky Society of Florists.
Montreal, Que., July, 5.—Montreal Gardeners' and Florists' Club, Royal Guardians building, 211 Sherbrook street, West.
New Orleans, La., July 7, 8 p. m.—German Gardeners' Club, 624 Common street.
Newport, R. I., July 7.—Newport Horticultural Society.
Pittsburg, Pa., July 6, 8 p. m.—Pittsburg and Allegheny Florists' and Gardeners' Club, 422 Sixth avenue.
Salt Lake City, Utah, July 6.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.
Seattle, Wash., July 6.—Seattle Florists' Association, Chamber of Commerce, Second avenue and Columbia street.
St. Louis, Mo., July 8, 2 p. m.—St. Louis Florists' Club, Bowman hall, 1023 Locust street.
Washington, D. C., July 6, 8 p. m.—Florists' Club of Washington, 1214 F street Northwest.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—As salesman, designer and decorator; salary considered if position is good.
Key 841 care American Florist

Situation Wanted—By competent florist and gardener single; private place perferred.
Key 846, care American Florist.

Situation Wanted—Gardener; aged 33; married; 16 years practical experience in all branches of horticulture both in England and Scotland
FOSTER, 228 South Aiden St. Philadelphia, Pa.

Situation Wanted—To recommend a sober and trustworthy greenhouse man; single; any firm wishing a man they can rely on. Address
THE MINGE FLORAL CO., Mobile Ala.

Situation Wanted—By young man; married; German; as foreman and grower of roses and carnations, can show best results; please state wages in first letter also full particulars. Address
Key 848, care American Florist.

Situation Wanted—By all around grower; 15 years' experience; German; sober and reliable; capable of taking entire charge; best of references
Address 66 care Mr. A. Jeffers,
R. F. D. No. 1. Burke, Virginia.

Situation Wanted—By a married man of 33; life time experience; 10 years in last place; to take charge of a private or small commercial place good grower of all kinds of flowers; best of reference; please state wages and particulars. Address
Key 847, care American Florist.

Situation Wanted—Gardener and florist, single 28 years of age; 14 years' experience in private and commercial places; grower and propagator of pot and bedding plants, cut flowers, carnations, roses, gardenias, forcing vegetables landscaping; wish position July 1; private preferred; can furnish German and American references.
Key 843, care American Florist.

Help Wanted—Gardener to take care of grounds and greenhouses of public institution; salary $600 per annum and living in the institution; apply to the superintendent
TOPEKA (KANS.) STATE HOSPITAL Topeka, Kans.

Help Wanted—Competent carnation grower to take section under foreman.
G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

Help Wanted—First-class designer, decorator and storeman for retail store. Address, giving particulars, salary, etc.,
Key 844, care American Florist.

Help Wanted—A man for general greenhouse work; must have experience in pot plants, 'mums and bedding stock. Address
Key 840 care American Florist.

Help Wanted—Experienced seedsman especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist

Help Wanted—Reliable traveling salesman to work market garden trade also to work in store; must have experience on the road also a thorough knowledge of the seed business; good salary to right party; best of references required.
J. F. NOLL & CO.,
115 Mulberry St., Newark, N. J.

For Sale—Greenhouse in Salida, Colorado, 6000 feet of glass, good trade, no competition; price low; address owner.
J. H. FREEMAN, Salida, Colo.

For Sale—A valuable greenhouse business in a good town; no competition; can sell more than you can grow at good prices; ill health.
DWIGHT GREENHOUSES Dwight Ill.

For Sale—15,000 feet of glass 20 acres of land; well located, well stocked; good reasons for selling; Eastern Ohio; wholesale; carnations a specialty; a bargain if sold at once. Address
Key 842 care American Florist.

For Sale—Florist's establishment, 12,000 ft of glass, two acres of ground large dwelling house, barn, etc; greenhouses nearly all new; best in town; property is on a corner, east front on best residence street in town; both interurban and city cars pass the place; progressive town of 30,000 inhabitants near Chicago; good reasons for selling. Key 845, care American Florist.

For Sale—Greenhouse plant of about 19,000 feet of glass; steam heat; cheap coal; all stock goes with the plant; six-room cottage; about one acre of ground; on car line; horse, wagons, tools, designs and all go with plant; a rare chance for a good florist with $5,000 cash; balance on easy terms; reason for selling, poor health, not able to look after the business. Address
A. D. JONES Colorado Springs, Colo.

For Sale—$3000 on easy terms will buy a desirable florist business in Tennessee; about two acres of ground, four greenhouses, barn, outbuildings and a nice 3-room cottage. Address
Key 838, care American Florist.

Opening for Nurseryman and Florist.

IN TOWN of 10,000, increasing rapidly; a city of homes and now beginning to wake up to city beautifying. Winterless climate, rich soil, plenty sunshine. Will send horticultural information and all details on request.

O. OWEN, Sec. Board of Trade, Port Arthur, Tex

Salesman Wanted.

If you call on florists—wholesale or retail—write for the best side line ever offered. Sale and commission large and sure. State kind of trade and territory covered in first letter, and references if possible; Confidential if desired.

GEO. S. L. BRUSH, Zanesville, O.

Situation Wanted

As foreman, able to take entire charge; have been very successful with roses and carnations; married; 20 years' experience in all lines; best of references from former places. Address

FLORIST, 284 E. Huron St., Chicago.

WANTED --- At Once

A good grower of roses, carnations, 'mums and general line of pot plants; must be able to produce results; permanent position and good pay.

——Address——

Key 839, care American Florist.

FOR SALE.

Fleischman's North Side Store,

Corner of State and Division Streets, with large conservatory in rear. Hot water heat. Hardwood fixtures. Good Lease. Will be sold at a sacrifice. Terms to suit. Apply

Fleischman Floral Co.,

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Killarney We have the finest **Killarney** to be had for this time of the year. Highly colored, long stems, perfect buds.

Peonies We were never in better condition to fill your wants. The supply is large and the quality fine.

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Carnations In large supply. **Fancy Valley** always on hand.

Complete Stock of Florists', Growers' and Nurserymen's Supplies. A large supply of very fine **NEW FERNS.**

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BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

Fancy and Dagger FERNS $1.25 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000 7.50
Boxwood.....35c per bunch; 50 lbs. 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

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New Crop Fancy and Dagger Ferns, $2.00 per 1000.

FANCY. WE NEVER DISAPPOINT. SATISFACTION GUARANTEED. DAGGER.

Wholesale Flower Markets

ST LOUIS, June 30.

Roses, Beauty, long stems	2 00@	2 50
" " medium stems	1 00@	1 50
" " short stems	25@	75
" Bride, Bridesmaid	2 00@	5 00
" Kaiserin	2 00@	5 00
" Killarney	2 00@	6 00
" Rhea Reid	4 00@	5 00
" Richmond	2 00@	4 00
Carnations, fancy	1 50@	2 00
" common	50@	1 00
Lily of the Valley	2 00@	3 00
Asparagus Sprengeri	1 00@	2 00
" cut sprays	1 00@	2 00
Ferns, fancy per 1000,	2 00	
Smilax		12 50

CINCINNATI, June 30.

Roses, Beauty	$1 00@$	4 00
" Bride, Bridesmaid	3 00@	6 00
" Golden Gate	3 00@	6 00
" Killarney	4 00@	6 00
" Richmond	4 00@	8 00
Carnations	2 00@	3 00
Callas		10 00
Daisies		50
Lilium Harrisii		12 50
Lily of the Valley	3 00@	4 00
Sweet Peas	50@	75
Adiantum		1 00
Asparagus Plumosus and Sprengeri in bunches per bunch,		50c
Boxwood per lb,		15c
Ferns, Eastern per 1000,	$1	50
Galax, Green and Bronze	1	00
Leucothoe per 100,		50
" per 1000,	4	50
Smilax	1250@	15 00

BUFFALO, June 30.

Roses, Beauty, special	20 00@	25 00
" " fancy	15 00@	20 00
" " shorter	2 00@	10 00
" Bride, Bridesmaid	2 00@	8 00
" Killarney	3 00@	8 00
" Richmond	3 00@	10 00
" Short	2 00@	3 00
Carnations	1 00@	2 00
Callas	8 00@	10 00
Lilac	25 00@	50 00
Lilium Longiflorum	8 00@	15 00
Lily of the Valley	3 00@	4 00
Mignonette	1 00@	2 00
Peonies	2 00@	4 00
Sweet Peas, outdoor, doz. bu	50@	1 00
Asp. Plumosus strings, each	50@	60
Ferns, per 1000		2 00
Galax, per 1000		1 50
Smilax strings		15 00

MORRISTOWN, N. J.—Robt. Elliott has purchased property on Pine street, where he will locate his new greenhouses.

New Crop Hardy Cut Ferns

FANCY and DAGGER.
60c per 1000.
Laurel Roping, Fine quality, 5c per yard.
Bouquet Green, in bulk or roping, 7c per lb. 5c per yd.
Sphagnum Moss, fine quality, 60c per bbl.
Florists' Supplies of all kinds.
Cash with all orders.
All orders promptly attened to

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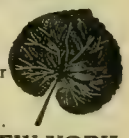

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FANCY and **DAGGER** ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
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Ferns NEW CROP. Fresh from the patch
Fancy and Dagger Ferns, $1.00 per 1000.
Discount on large orders. If you want the cream of the season, send orders now. Sixteen years' experience. Send cash with first order.
J. N. PRITCHARD, Elk Park, N. C.

H. G. BERNING,
Wholesale Florist,
1402 Pine St., ST. LOUIS, MO.

Send Advertisements Early for Best Display.

Summer Roses

We make a specialty of **Kaiserin, Pres. Carnot, Killarney, Richmond, Perles** and **New Beauties** during the hot weather, and have built cold storage facilities to handle **Summer Roses** alone.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00
30 inch	2 00
20 inch	1 50
18 inch	1 00
Shorter stems	50 to 75

KAISERIN, KILLARNEY, RICHMOND

	Per 100
Long and select	$6 00 to $8 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	2 00 to 3 00

CARNOT, BRIDE and PERLE

	Per 100
Long and select	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$2 00 to 3 00

Short Roses in not less than 500 lots, per 1000 ..... $15 00

CARNATIONS.

	Per 100
Fancy, long, Red O. P. Bassett	$1 50
White and Winsor	1 50
Enchantress, fancy	1 50

PEONIES, Pink and white, per 100	$2 00 to $4 00
EASTER LILIES, per 100	6 00
" " per doz	1 00
LILY OF THE VALLEY, per 100	2 00 to 3 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, new crop, per 1000	2 00

BASSETT & WASHBURN

Store and Office: 76 Wabash Ave. CHICAGO Greenhouses: HINSDALE, ILLINOIS.

OUR PASTIMES.

THE opening of the Waretown Rod and Gun club at the club house of Commodore John Westcott at Barnegat bay is noted in our Philadelphia letter, page 1182.

At Washington.

BOWLING.

The annual outing of the Florists' bowling team took place June 25 at Chesapeake Beach. There was an unusually large attendance and a merry time was enjoyed by all. Scores rolled on Wednesday night at the home alleys were as follows:

Shaffer	128	211	171
McLennon	192	198	163
Simmonds	151	169	187
Ernest	189	200	177
Goodman	162	128	136
Caldwell	182	191	165

G. S.

At Chicago.

The bowling at Bensinger's on Friday was of little better quality than that of last week, although only 15 men turned out for the onslaught on the pins. Henry Kruchten having signified his intention of dropping out of the competition, John Zech is now high average man with 179 2-9 and is followed in the order named by A. Zech, 172 9-12; G. Asmus, 172 2-9; V. Bergman, 164 3-12; Lorenzen, 164 1-3; T. Graff, 156 4-9; W. Wolf, 155 4-6; T. C. Yarnall, 153 7-12; F. Ayers, 151 6-12; J. Degnan, 151. This week there will be the prize bowling in conjunction with the competition for a place on the convention team. The scores of Friday night's games follow:

T. C. Yarnall	205	167	164
F. Pasternik	127	118	147
T. Graff	210	127	190
E. Farley	158	160	135
J. Zech	141	209	171
Totals	841	781	807
G. Asmus	155	169	202
V. Bergman	164	147	169
A. Zech	170	157	206
F. Ayres	179	138	162
E. Schultz	107	127	128
Totals	775	738	867
W. Wolff	146	132	172
O. Goerisch	154	138	138
Craig	133	104	105
T. Vogel		95	79
Ringler		177	100

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

RICE BROTHERS

Wholesale Florists and Supplies.

115 N. 6th St., MINNEAPOLIS, MINN.

Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

Shibeley-Mann Co., Inc.

WHOLESALE DEALERS IN

FLORISTS' SUPPLIES and Cut Flowers

1203 Sutter St., SAN FRANCISCO, CAL.

Had No Use for Flowers.

A big box of peonies, roses and lily of the valley had come to the East Side school through one of the flower missions that do what they can toward equalizing things between people who live where flowers grow and the unlucky ones who don't. One of the teachers was doing her best to distribute the blossoms fairly among the grimy, eager little hands that reached out ravenously for them. But there was one mite of a child who seemed quite indifferent to the gift; she just sat stolidly looking on while the others gloated over the blossoms.

"Don't you want some roses, Annie?" the teacher asked her. "Here's a nice bunch." A pair of unresponsive eyes looked up from the sharp little face, and the frowsy head shook slowly. "No'm," she said, shortly. "I don't want no flowers. I ain't dead." She had never seen flowers used except at funerals, and that, she supposed, was what they were for.—New York Tribune.

ISLIP, N. Y.—H. K. Knapp is building a greenhouse 40x100 feet. Concrete is being largely used in the construction.

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75

	Per 100
Killarney, select	$6 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Valley	2 00 to 4 00

Asparagus Plumosus
Extra quality, per bunch 75c
Fancy Ferns, per 1000 ..... $ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

H. N. BRUNS,

1407-11 W. Madison St., **CHICAGO.**

LILY OF THE VALLEY.

Chicago.

NO BUSINESS.

The past week has been the most quiet of the season, what little bottom there was in the market last week having dropped out completely. To be sure not quite so many peonies went to the dump but this was due to the heavy rains which beat down the full blown stock and prevented its shipment to the market and not to any increased demand. While this condition helped a little it did not affect the supply sufficiently to cause any appreciable shortening up and the glut was as pronounced as ever.

This did not apply to peonies alone but to all the other flowers. Roses were at a discount and while some of the summer roses, such as Killarney and Kaiserin were of good quality, the growers sent in such a mass of poor flowers that the net returns did not increase their bank accounts to abnormal proportions. There was a slight movement in carnations, one Greek merchant using about 2,000 per day. The extra fancy brought from .75 to $1 but the bulk of them sold anywhere from 25 to 40 cents.

Boiled down to a simple statement of facts, the dull season is here, the parks and gardens are full of flowers, June weddings are a thing of the past, funerals are few and every one who can get away is at the summer resorts and there is no demand.

NOTES.

The West Park board may bring suit to compel the C. E. Carson Contracting Co. to expend from $30,000 to $40,000 in rebuilding the glass roof of the new Garfield Park conservatories. The failure of the bars to stand the strain and the breakage of glass consequent on this has been attributed to failure on the part of the contractor to carry out the architect's specifications. Instead of sawing out the curved sash bars, as the plans contemplated, it is said the contractor used pieces of wood that had been bent into the required form. The Carson Co., which built the conservatories at a total cost of $185,000, claims that the method of construction employed was superior to the other and that it cannot be held responsible for the alleged defects. The matter has been placed in the hands of the attorney of the board, who is expected within a few days to recommend a course of procedure.

The annual picnic of the Florists' Club will be held on Thursday, July 22, at Riverview picnic grove, adjoining Riverview park. Games, races and dancing are on the programme and as the wholesale market has agreed to close at 1 o'clock on that day a large attendance is expected. Tickets, which have been placed at 50 cents (including admission to Riverview park), can be obtained of Peter Reinberg, Bassett & Washburn, Poehlmann Bros. Co., A. L. Randall Co., Winterson's Seed Store, E. C. Amling, Zech & Mann.

The city of Boston appropriates each year 30 cents for flowers for each graduate from the public schools. Each florist is entitled to submit a bouquet and no one florist is allowed to furnish more than 300 bouquets. This divides the business up among all the trade and prevents any one man getting the bulk of the business. Something of this kind might be suggested to the powers that be in this city.

On account of the rapidly increasing business at the downtown store needing all its attention, the Fleischman Floral Co. has decided to sell the north side store on State and Division streets. It is very seldom an opportunity like this occurs of securing a well-established business in such an excellent position, close to the fashionable Lake Shore drive and best houses.

A. J. Eckert, of the A. L. Randall Co., felt the effect of the Calhoun place bomb on Sunday night. He was waiting for a car at the corner of Madison and Dearborn streets when the explosion occurred and was knocked back against the building. He fortunately escaped uninjured, though considerably shaken up.

At a postponed meeting of the florists held on Monday afternoon at Peter Reinberg's it was decided to defer bringing the question of flowers at school exercises before the present school board on account of the well-known position of President Schneider and to wait until the new board is appointed.

The John C. Moninger Co. is doing quite a large business in greenhouse boilers and supplies, which line it has recently added to its business. The new additions to the plant will be completed early in the fall when their facilities will be largely increased.

Joseph M. Smely of Aurora was seriously burned on Saturday last by falling into a tub of scalding water. He was preparing a bath when, overcome by the heat, he toppled over into the hot water. He was unconscious when taken to the hospital.

Quite an interesting fight was promised on Thursday evening at the meeting of the Florists' Club over the election of recording and corresponding secretary. Frank Johnson and Louis Winterson were the contestants and at the hour of going to press it was anyone's fight.

William P. Kyle and wife celebrated their crystal anniversary on Sunday at their home, Fifty-fourth street and Lake avenue. A small party of friends wished the happy couple many succeeding years of joy and prosperity.

Great crowds visited Jackson park on Sunday as usual, but the special attraction was the rose garden on the wooded island which, as intimated in the nursery column last week, was at its brightest and best.

W. J. Smyth, whose leg was fractured in an automobile accident last week, is getting along nicely and the physicians confidently expect that there will be no ill effects after the fracture is brought together.

The following are the committees appointed for the Florists' Club picnic: Arrangements, Ed. Enders, chairman; Frank Pasternik, T. E. Waters. Sports, A. Zeck, chairman; John Kruchten, T. C. Yarnall.

Mrs. Jacob Schneider of Manistee, Mich., was in the market this week and reports that the summer resort business is begining to boom.

Louis Wittbold is in Wheeling, called there by the serious illness of Mrs. Wittbold's father, who is in a very precarious condition.

John Kruchten will spend July 4-5 in Milwaukee and will return to bachelor quarters, leaving his wife in Wisconsin for a two weeks' stay.

The Fourth of July falling on Sunday this year, the wholesale and commission houses will close at noon on Monday, July 5.

James Aldous, Sr., of James Aldous & Son, Iowa City, Ia., has gone abroad and will spend the summer in England.

E. Farley, with C. W. McKellar, leaves July 3 for Indianapolis for a two weeks' vacation.

The Geo. Wittbold Co. has an entire house of kentias and the plants are particularly fine.

The condition of Uncle John Thorpe, now in his sixty-ninth year, continues serious.

J. B. Deamud left on Tuesday evening for Detroit on a short trip.

Visitors: Mrs. Jacob Schneider, Manistee, Mich.; Chas. H. Ketcham, South Haven, Mich.; John H. Durham, Mount City, Mo.; G. F. Crabb, of Crabb & Hunter Floral Co., Grand Rapids, Mich.; C. E. Schaefer, president and general manager La Crosse Floral Co., La Crosse, Wis.; W. G. Matthews, Dayton, O.; James Aldous, Jr., of James Aldous & Son, Iowa City, Ia.; Ed Bertermann of Bertermann Bros. Co., Indianapolis, Ind.

Salix Babylonica Ramulis Aureis.

A RARE WILLOW.

The ordinary weeping willow (Salix Babylonica) is a well-known and deservedly popular tree for planting in the vicinity of water, no tree being of more graceful outline or better suited for the purpose. Its grace of habit is perhaps most apparent when there are trees in the vicinity of stiffer aspect, the contrast being helpful to both, says the Garden. At all times of the year, even in the depth of winter, its peculiarly light outline commands attention, while it is difficult to imagine anything more beautiful in early spring, when the pendulous wand-like branches are clothed with the bright green of the bursting leaves. The variety under notice has not been planted to any great extent, but it is worthy of consideration when a selection of waterside trees is being made, for, in addition to possessing the merits of the type, it has the advantage of having golden bark, which is very showy after the fall of the leaves. It has also another recommendation, for it is a male form, and the slender yellow catkins are very conspicuous in April. Like other willows, cuttings a foot long planted outdoors in autumn root freely, and strong plants are quickly formed. One point in the culture of weeping willows which demands some consideration is the tying up of the leading branches for a few years while the specimens are young. This enables the tree to form a long, erect stem which adds very considerably to its future beauty. If this is not done a bush-like appearance, rather than tree size, is frequently the result. In addition to growing them by the waterside these weeping willows may be planted with advantage in other places, particularly in situations where the soil is naturally rather damp.

FLORENCE, MASS.—Business has been very good in this section since June 1.—K.

VACAVILLE, CALIF.—H. L. Blake, a deciduous fruit grower, has been appointed by Governor Gillett to the position on the state board of horticultural examiners made vacant by the recent resignation of Henry Stabler. As soon as Mr. Blake qualifies it is expected the board will organize and set a date for examination of applicants for positions as horticultural commissioners throughout the state.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO

Telephone, Central 3284.

Quality Counts..

Let us have your next order for

Roses and Carnations

and other Seasonable Flowers.

JOHN KRUCHTEN,

51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.
SEND FOR PRICE LIST.
76 Wabash Avenue, CHICAGO.

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.
32, 34, 36 Randolph Street,
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L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central 6004. Catalogue Free.

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Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

KENNICOTT BROS. COMPANY

WHOLESALE CUT FLOWERS
48-50 Wabash Ave., Chicago
L. D. Phone, Central 466.
We will have anything in the line of
CUT FLOWERS and GREENS
that you may want if anybody has it at
Chicago market prices on day of shipment.

"The Busiest House in Chicago."

J. B. DEAMUD CO.

51 Wabash Ave., Chicago.

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.
ORCHIDS
A Specialty
Fancy Stock in Peonies, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.
Send for Complete Catalogue.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.
For buyers of recognized standing. I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.
21 Wabash Avenue, CHICAGO.

Wholesale Flower Markets

CHICAGO, June 30.

Roses, Beauty, extra select		3 00
" " 30 in		2 50
" " 24 in		2 00
" " 20 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select		4 00@ 6 00
" " medium		3 00@ 4 00
" Chatenay, Sunrise		3 00@ 6 00
" Golden Gate, Uncle John		3 00@ 6 00
" Kaiserin		3 00@
" Kate Moulton		3 00@ 8 00
" Killarney, select		4 00@ 6 00
" " medium		4 00@ 5 00
" Mrs. Marshall Field		4 00@ 6 00
" Mrs. Potter Palmer		4 00@ 8 00
" Perle		6 00@ 8 00
" Richmond, extra select		6 00@ 8 00
" " medium		4 00@ 5 00
Carnations, select fancy		1 50
" common		1 00
Cattleyas	per doz.	6 00
Daisies		75@ 1 00
Forget-me-nots		1 00
Lilium Harrisii per doz.	1 50@2 00	15 00
Lily of the Valley		3 00@ 4 00
Peonies, select		2 00@ 6 00
Sweet Peas		35@ 75
Adiantum		75@ 1 00
Asparagus Plum. strings	each 50@ 60	
" sprays		2 00@ 4 00
" Sprengeri		2 00@ 00
Ferns	per 1000	2 50
Galax, green	per 100 15; per 1000	1 00
" bronze	per 100 15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax strings	per doz.	1 50

WIETOR BROS.

Wholesale Growers of Cut Flowers
All telegraph and telephone orders given prompt attention.
51 Wabash Ave., CHICAGO.

Vaughan & Sperry,

Wholesale Florists,
52 and 54 Wabash Ave., CHICAGO.
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CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
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35 Randolph St. Wholesale Florists CHICAGO.

Send Advts. Early for Best Display and Position.

NOTICE!

Manhattan Flower Market

WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

NOTHING SELLING.

The market conditions of the past week were, as foretold in our last letter, very bad. The heat was intense and caused a number of deaths and much suffering among those who had to stay and endure it, and they comprise much the larger portion of the city's population. There was also much suffering and many deaths among horses. For most of this either owners or teamsters, or both, were responsible. In this city conditions in this respect may be no worse in proportion than elsewhere, but it is a safe conclusion that some of our horse owners and drivers should be in jail. The week opened with hot weather and a great surplus of flowers, and each day was but an aggravated repetition of the conditions of the previous one. With such hot weather, it would have been hard work to dispose of a light supply of stock, for the people were not sighing for flowers, but with truck load after truck load pouring in conditions were unspeakable. We note that a contemporary says that "sweet peas are one of the few strong things in the market." That must mean that they emit a strong odor as they are fleeing into the ashman's cart. Nobody can remember such a glut of lilies. Ice boxes were full of them to overflowing. Two cents, one cent, nothing doing in half the lily stock that came in. The market gardener who advised all his neighbors to sow turnip seed—and himself sowed other things—must have somewhere a prototype among the florists who ship to this market. He must have persuaded most of them to have lilies for June. The saying that good stock will always bring a price fell down this time, for of what use is good stock if nobody wants it? There was a cooling shower on Friday night, but no real relief from the heat until Sunday, June 27, which was cool, cloudy and showery throughout. Toward the last of the week there were some heavy funeral orders, grim reminders of old Sol's merciless doings. The heat is playing havoc with greenhouse stock and it does seem as though the carnations will soon be out. Many roses would not be taken as a gift, if good roses were wanted, but "there's the rub," so few are wanted. The surplus has given some of the designers a free hand to use the best on the market in funeral work, and orchids, lilies and lily of the valley have been seen in profusion and used with fine effect.

June 28.—Stock cleaned up somewhat better this morning, but there was no advance in prices worthy of note. The weather is cooler and there was very heavy rain this afternoon. Though many roses are of inferior quality, there are enough passably good ones to supply all demands. There are yet plenty of carnations but they are a failing quantity and will be scarcer in a week. Lilies are still in surplus and sweet peas as the sands on the seashore.

NOTES.

A. Hanig, a well known Brooklyn dealer, has recently taken a large store at 502 Fulton street. He has, in addition, another store at Norstrand and St. Mark's avenues, and has been taking advantage of the surplus to handle a great amount of stock.

Ferdinand Fleischman, who now has a store at Fifth avenue and Forty-second street, will, on or about July 19, open another store at the Cortlandt street terminal of the McAdoo tunnels to Jersey City. He will also have a fruit store at the same location.

The programme of the Florists' Club outing to Whitestone park contains portraits of the members, including the youngest, also the oldest florist, and officers and Harry Bunyard's "Greetynge" and shows a long list of games and sports that will be enjoyed ere this issue reaches our readers.

Myer, of Fifty-eighth street and Madison avenue, has a very attractive window of water lilies. There is a Dutch windmill and running water flows into the pond. In the background a handsomely painted drop curtain heightens the electrical display at night.

The transportation committee of the Florists' Club has decided to go by the New York Central to the annual convention at Cincinnati, but has not selected the train as yet.

Peter Crowe, Utica, spent several days here during the past week. He was accompanied by a bright young granddaughter and much time was given to sight-seeing.

Visitors: Wm. F. Kasting, Buffalo; S. J. Reuter, Westerley, R. I.; C. L. Seybold, Baltimore; R. O. King, N. Tonawanda, and L. E. Wood of Fishkill.

Cincinnati.

TRADE GOOD FOR THE SEASON.

The general report among the wholesalers is that business is very satisfactory for the season of the year. Of course it is impossible to sell all the flowers coming in; especially is this true of sweet peas, which, from last Wednesday on, are the biggest kind of a glut. Good roses sell well at fair prices, and the same may be said of carnations, while the poorer grades find their way to the hospitals and some are consigned to the barrel. Shasta daisies are fine but there is not much call for them. Lily of the valley and Lilium longiflorum were in active demand all week and cleaned out nicely, every day some late orders on these having been turned down. A few asters are to be had, but as long as we have carnations nobody seems to care for them. Smilax, adiantum, asparagus, ferns, in fact all green goods have been good property and sold readily.

CONVENTION MATTERS.

It is very gratifying to note the interest the craft in this city is taking in S. A. F. convention matters. All the boys seem to realize that the Cincinnati Florists' Society has quite a task to take care of the visitors in August, and even now members are offering their services. All traveling men tell us that we can look for an immense crowd and we are going to make this the biggest and best ever. At the meeting last Monday night at the Sinton hotel of the board of governors of our society we had the pleasure of Mrs. Maynard's company. Mrs. Maynard came here to consult with the local society regarding the Ladies' S. A. F., and we must admit that the ladies are very moderate in their demands and do not seem to want many favors extended. Another meeting of the local board will be held Monday night and every Monday night until convention time. Wm. Murphy, superintendent of exhibits, was at first under the impression that all the space would not be taken as he had too much room. Will is gradually changing his mind. Intending exhibitors write and inquire for a certain amount of space and then, when ordering, just double the amount. He had no less than four such cases the past week.

25th Annual

Trade Exhibit

OF THE

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and Ornamental Horticulturists

TO BE HELD

AT CINCINNATI

Aug. 17th to 20th (inclusive)

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WM. MURPHY,

311 Main St., CINCINNATI, O.

NOTES.

Albert McCullough returned Friday from the seedsmen's convention at Niagara Falls and is much pleased with the work done and treatment received. He states the weather was delightfully cool, which is quite a contrast to the 90° in the shade we have been having the past week.

C. E. Critchell is busy remodeling his place. He had the old refrigerator taken out and replaced the same with a larger one, the dimensions of which is 12x12 feet and 10 feet high. When finished Charlie will have one of the best and most complete wholesale houses in the city.

Ernst Mack of Price Hill states that business with him has been very good this spring, but that collections are slow. Ernst grows longiflorum lilies and grows them well and claims all you have to do is to give them good soil and watch them closely to be successful.

Will Gear is now a full-fledged Mason. He received the M. M. degree last Saturday night and says he got everything that was coming to him.

Miss Edith Kyrk has been exceptionally busy the past week with funeral work. S.

NEWTOWN, N. Y.—Adolph Sobrieralski, a gardener, 45 years old, of Grand View avenue, was found dead in his bedroom June 23 by his wife, with his throat and both wrists cut with a razor. Mrs. Sobrieralski said that her husband quarreled with her and then went to his bedroom. She did not see him again until she went to his room and found him dead on his bed, with a razor alongside of him. She also said that he had threatened to kill himself many times during the past month.

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Desirable Wall Space to Rent for Advertising.
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NEW YORK, June 30.

	Per 100
Roses, Beauty, special	12 00@15 00
" " fancy	10 00@12 00
" " extra	6 00@ 8 00
" " No 1	2 00@ 3 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	3 00@ 4 00
extra and fancy	1 50@ 2 00
No. 1 and No. 2	50@ 1 00
" Killarney special	4 00
extra and fancy	1 00@ 1 50
" Richmond	50@ 5 00
Carnations fancy and special	1 00@ 1 50
" common	25@ 50
Callas, per doz.	40@ 50
Cattleyas	10 00@35 00
Coreopsis	25@ 40
Daisies	50@ 1 00
Feverfew, per doz.	50@ 60
Gladiolus	5 00@ 6 00
Gardenias, per doz.	1 00@ 2 00
Lilium Longiflorum	1 00@ 2 00
Lily of the Valley	1 00@ 2 50
Peonies	1 00@ 3 00
Snapdragons (Antirrhinum) doz.	15@ 35
Sweet Peas, per 100 bunches	50@ 3 00
Asparagus, doz bunches	1 50@ 2 50
Smilax, per doz. strings	75@ 1 50

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Philadelphia.

GREAT HEAT INJURES STOCK.

The feature of the past week has been the extreme heat, which has been almost unbearable, the glass showing above 90° almost continuously throughout the greater part of the day. This great burst of hot weather has been especially hard on the roses which, no matter how tight they are cut, are pretty sure to open up in the boxes while enroute to the market. Everything in fact all along the line shows the effects of the scorching and if it were not for the extremely light demand there would be trouble to get stock. Eastern American Beauty and Kaiserin roses have the first call, the local stock, particularly Beauties, having deteriorated very much. Lily of the valley and orchids are in good demand for fine work. Sweet peas are coming in good shape, the copious rains of a week ago helping them very materially. Gladioli are also seen in all the stores, where they make a good summer decoration. Water lily basins filled with an assortment of the beautiful flowers attract attention and are used by quite a few of the stores in their window displays. Asparagus is plentiful, the bunches for 50 cents containing twice as much as sold during the busy season.

NOTES.

The annual opening of the Waretown Rod & Gun Club at the club house of Commodore John Westcott at Waretown on Barnegat bay, was held on Friday, June 25. Those present were James Dean, Freeport, L. I.; H. B. Beatty, Oil City; W. J. Stewart, Boston; John Westcott, W. K. Harris, John Burton, George Anderson, Robert Craig, G. C. Watson, Edwin Lonsdale, Wm. H. Westcott, George Craig, David Rust, Wm. Graham, Charles Eimerman, Daniel C. Donoghue, Lewis Burk, John W. Dunham, Robert Cantly, Dr. Lane and Robert Kift. Inspections of the 400-acre farm with its half mile water front, sailing, fishing, games of quoits, etc., were among the interesting doings of the day. In the evening the feature was the presentation of a fine hardwood combination bookcase and desk, the shelves stocked with books by best authors, the drawers containing stationery illuminated with pictures of the club house and bay, with yacht in foreground. Robert Craig made the presentation in his usual happy manner. Words of appreciation of the host and his thoughtfulness in providing such a comfortable retreat for his friends were voiced by Messrs. Beatty, Dean and others. W. K. Harris and Charles Eimerman were the guests of John Burton, coming the 80 miles from Philadelphia in his auto. Nearly all the guests stayed over until Sunday.

William Falck was the guest of honor at a farewell dinner given him by his employers, Pennock Bros., and his fellow employes. This very pleasant affair was given at Boothby's restaurant on Saturday, June 26, and 19 persons in all gathered to show their appreciation of his worth and wish him success in his future home in the land of his birth, Copenhagen, Denmark, for which country he will sail from New York July 3. After partaking of a very generous menu there were speeches and songs, each one trying to do his part to add to the pleasure of the guest.

There was a great demand for American Beauty on Wednesday of this week from graduates of the girls' high school who had adopted this rose as their class flower. Nearly every scholar carried a dozen long stemmed roses tied with ribbon which ran the total of blooms used into the thousands.

The feature of the July meeting of the Florists' Club on July 6 will be the paper of Edwin Lonsdale on the "Decoration of the Lawn." This should be one of the club's best productions, as fancy foliage and flowering plants for carpet and other bedding has long been a specialty of Mr. Lonsdale.

The Niessen Co. offer as leaders something choice in gladioli and sweet peas. Asters are promised for next week.

Wm. McKissick & Bros. are right in it with fine American Beauty and Kaiserin roses, eastern stock; high grade sweet peas are also seen in quantity.

Ralph Shrigley of the Neissen force is spending a part of his vacation at Atlantic City.

K.

Boston.

GLUT OF STOCK.

The termination of the season of 1908-09 was marked by the hottest stretch of June weather ever recorded by the local bureau. The difficulty arising from these conditions brought many growers face to face with complete annihilation of their ready for market products and the monetary loss was extensive. The final call for June weddings and graduations has been registered and from now on we face the long summer season. Funeral work, which of late has been exceedingly heavy, is now the principal and only reliance of the trade. The market is glutted with every conceivable product known to florists. Good roses as might be expected are exceedingly scarce and lots of good sales are lost to some other choice. Killarney is the only colored rose that has shown any good qualities at all and has had a heavy run. American Beauty is away off and the few coming in bear no relation to the customary idol. Richmond has dropped out of sight completely, a few remnants of dissipated appearance comprising the best stock cut. An excellent line of Kaiserin is being received and in more ways than one has been a substantial support to this section of the list. Carnations are bravely holding out but the effort is too much and the end is not far off.

NOTES.

While engaged in closing day decorations at Howard, June 25, the hottest day of the week, W. J. Kenney of the decorating staff of Thos. I. Galvin (Inc.), was overcome by the excessive heat and taken to the Cambridge hospital. He was discharged the following day, having yielded quickly to the treatment.

George Butterworth, son of T. J. Butterworth of orchid fame, and who is selling agent of the firm, sailed June 26 on the steamship Cymric for an extended tour of Europe. A large party of friends were at the dock to start him safely on his excursion.

W. J. Gilson, the genial sales-agent for Thomas Roland, has consigned himself for the next two weeks to the Adirondacks, where he seeks a well earned rest.

B.

Massachusetts Horticultural Society.

AWARDS JUNE 26 AND 27.

Special prizes for hardy roses. Theodore Lyman fund. Twenty-four distinct named varieties, three of each variety.—M. J. Walsh, first; E. E. Lincoln, third.

John C. Chaffin fund (for amateurs only). Three blooms of any white hybrid perpetual rose.—E. E. Lincoln, first, with Frau Karl Druschki. Three blooms, pink—T. E. Lincoln, first, with Baroness Rothschild; Robert Seaver, second, with Mrs. John Laing; E. E. Lincoln, third, with Mme. Gabriel Luizet. Three blooms, red—Robert Seaver, first, with Ulrich Brunner; Robert Seaver, second, with Capt. Hayward; E. E. Lincoln, third, with Ulrich Brunner. Three blooms of any new hybrid perpetual rose not offered in any American catalogue previous to 1900—G. R. White, with Frau Karl Druschki, first.

Gratuities: W. J. Clemson, W. A. Riggs, J. G. Wright, Mrs. E. M. Gill and M. H. Walsh, roses; G. R. White, Rose Frau Karl Druschki; W. A. Riggs, Oldtown Nurseries, and F. J. Rea, herbaceous plants; William Whitman, display of foxgloves, sweet williams and Canterbury bells; Mrs. Frederick Ayer, display of sweet williams and Canterbury bells; Mrs. E. M. Gill, display.

Silver Medals: Jackson Dawson, Rose Prof. Sargent (R. Wichuraiana X Crimson Rambler X pink hybrid); Prof. C. S. Sargent, rhododendron, light pink maximum hybrid. Bronze Medal: Bellevue Nurseries, artistic display. Certificates of merit: W. G. Postings, seedling branching Delphinium Belladonna; W. W. Rawson & Co., new sweet peas. Honorable mention: George Hollis, E. J. Shaylor and T. C. Thurlow & Co., peonies. Vote of thanks: T. C. Thurlow & Co., vases of kalmias; W. A. Manda, display of herbaceous plants; R. & J. Farquhar & Co., display of peonies.

Providence, R. I.

"Carpet Bedding" was the subject of a discourse delivered by William Appleton, Sr., June 21, before the Florists' Club at Swarts Lodge hall, 96 Westminster street. Mr. Appleton illustrated his subject with diagrams. A plant of Begonia Vernon was also exhibited and made the subject of a general discussion.

An invitation extended by James Hockey to the members of the club to visit his greenhouses at Pawtucket was accepted, the visit to be made in the near future. The chair appointed the following committee to make arrangements for the annual outing: James Dillon, E. A. Appleton, James Hockey, C. S. Macnair and Alexander Macrae. The next meeting will be held the third Monday in July.

Viburnum Carlesii.

This species is one of the best of the many viburnums that have been introduced to gardens during the last few years. It was first brought to notice by means of herbarium material collected by W. R. Carles in western China. In 1901 L. Boehmer & Co., nurserymen at Yokohama, sent specimens which had been raised from seeds collected in Corea, in 1885, to Kew for name, and a year later a living plant was received. Doubts being entertained as to its hardiness, the plant was kept in a cold frame for three winters, but in 1905 it was planted in a bed of hardy heaths. The protection afforded in this manner proved sufficient to keep it safe through the winter, and the first flowers were produced in the spring of 1906. Each year since it has flowered well, and last year it developed upwards of 30 inflorescences. This particular plant is now about 2½ feet high and 2½ feet through, while another example which originated from a cutting is almost as large. V. Carlesii is recognized by means of its oval, serrated leaves, which are hairy on both surfaces and have a greyish tint, and by its rounded heads of rondeletia-like flowers. The flowers are borne in dense heads 2 to 3 inches across and open during early May. They are white, slightly flushed with pink, and are deliciously fragrant. The species appears to thrive best in light, loamy soil with which a little peat has been mixed. Propagation is effected by means of cuttings which root readily in summer.—Gardeners' Chronicle.

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Spring Flower Shows in England.

A new movement is in evidence. This movement is the institution of flower shows in the early springtime, when the first delightful blossoms of the new year are awaking fresh hopes and joys in men's breasts after the dreary chilliness and discomforts of the winter. The movement began only a year or two ago—scarce half a dozen years—with daffodil shows in Cornwall, in Sussex, and in Huntingdonshire. In several other places there had been later "spring exhibitions," usually held in the month of May, but in May there is abundance of flowers, and, provided the weather is agreeable, a show indoors is less tempting just then. But these new daffodil shows are being held in March or early in April, and so far as the reports carry us, they have been eminently and uniformly successful.

Perhaps in the fact of a new season for shows some of the struggling societies, whose energies have been expended for many years upon the maintenance of an autumn exhibition, may find salvation. It almost seems as though the public become surfeited and bored with the abundance of summer shows and entertainments that are found upon every hand, and that the autumn exhibitions, mainly composed of chrysanthemums, Lorraine begonias, and apples that look wonderfully alike to the cursory viewer, overload the programme of the season. In many cases we know this is not so; in others it surely is. But an early exhibition in March, even if it is only tiny, with a varied representation of fragrant hyacinths, mignonette, violets and roses, brilliant tulips, gay daffodils, dainty carnations; fresh, crisp, salad vegetables, and here and there some choice fruits, with table decorations, little rock gardens, and forced flowering shrubs, comes with irresistible charm to the suburbanite or town-dweller who has not, probably, seen a floral "omnium gatherum" since the previous November. With, or without, the pleasant harmonies of music, these first shows of the year are generally regarded as the best, the most pleasing, and the most cheering. Are the societies considering their responsibilities or their position in relation to this matter?—Journal of Horticulture.

Wholesale Flower Markets

PHILADELPHIA, June 30.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	3 00@ 6 00
" " extra	8 00@12 00
Carnations	2 00@ 3 00
Cattleyas	50 00@60 00
Gardenias	15@ 25
Gladiolus	6 00@10 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Peonies	4 00@ 8 00
Sweet Peas	50@ 75
Adiantum	75@ 1 00
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, June 30.	Per 100
Roses, Beauty, specials	10 00@15 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride Bridesmaid	1 00@ 4 00
" Chatenay	1 00@ 4 00
" Killarney	1 00@ 4 00
" Richmond	1 00@ 4 00
Carnations	1 00@ 2 00
Iris	1 00@ 3 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	2 00@ 4 00
Sweet Peas	25@ 50
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00

BOSTON, June 30.	Per 100
Roses, Beauty best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

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Mention the American Florist when writing

McFarland and the Falls.

NIAGARA FALLS.—J. Horace McFarland of Harrisburg, Pa., president of the American Civic Association, who led the fight to save Niagara was in town and delivered an address to the Amercan Seed Trade Association. He is very much pleased with the work that has been done under direction of the Taft Niagara commission to restore the river bank north of the upper steel-arch bridge to semblance of its first beauty.

But Mr. McFarland is not at all pleased with this city. Conditions between Echota and Falls street are very unsightly, he says, and ought to be corrected at once to harmonize with the natural surroundings. Speaking of general conditions about Niagara, he said:

"I hope to see the day when there is a great international reservation with all the trumpery amusement places and the factories removed. Remember, I do not advocate the tearing down of the factories, but I do think they should be moved back from the river banks."—Buffalo Express.

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July 4.

Canopic (W.S.) Genoa-Boston.

July 6.

Kronprinz Wilhelm (N.G.L.) 10 a. m., New York-Bremen, Pier foot of Second St., Hoboken, N. J.
Kaiser Wilhelm der Grosse (N.G.L.) Bremen-New York.
Carmania (C.) Liverpool-New York.
Ryndam (H.A.) New York-Rotterdam, Pier foot of Seventh St., Hoboken, N. J.

July 7.

Main (N.G.L.) 2 p. m., Baltimore-Bremen.
Argentina (A.A.) 1 p. m., New York-Trieste.
Friesland (Am.) Liverpool-Philadelphia.
Lucania (C.) 10 a. m., New York-Liverpool, Piers 51 and 52 North River, foot of Jane St., New York.
Oceanic (W.S.) 9:30 a. m., New York-Southampton.
Adriatic (W.S.) Southampton-New York.
Pennsylvania (H.A.) 2 p. m., New York-Hamburg.

July 8.

Koenig Albert (N.G.L.) Genoa-New York.
Bremen (N.G.L.) 10 a. m., New York-Bremen, Bremen Piers, foot Second and Third Sts.
Rhein (N.G.L.) Bremen-Baltimore.
Carpathia (C.) 12 noon, New York-Trieste.
La Savoie (Fr.) 10 a. m., New York-Havre, Pier 42 North River, New York.
Amerika (H.A.) Hamburg-New York.

July 9.

Virginian (Al.) 6 a. m., Montreal-Liverpool.
Victorian (Al.) Liverpool-Montreal.

July 10.

Koenigin Luise (N.G.L.) 11 a. m., New York-Genoa, N. G. L. Piers, Hoboken, N. J.
Grosser Kurfuerst (N.G.L.) Bremen-New York.
Oceanic (A. A.) Trieste-New York.
Corinthian (Al.) Glasgow-Boston.
Sicilian (Al.) London-Montreal.
Columbia (A.) 12 noon, New York-Glasgow, Pier No. 54, North river, foot of West 24th St., New York.
Caledonia (A.) Glasgow-New York.
St. Paul (Am.) 10 a. m., New York-Southampton, Pier 15, North River, foot Fulton St., New York.
St. Louis (Am.) Southampton-New York.
Merion (Am.) 10 a. m., Philadelphia-Liverpool, Pier 54, foot of Washington avenue, Philadelphia, Pa.
Campania (C.) Liverpool-New York.
La Bretagne (Fr.) Havre-New York.
Kroonland (R.S.) 11 a. m., New York-Antwerp.
Vaderland (R.S.) Antwerp-New York.
Cedric (W.S.) 12 noon, N. Y.-Liverpool.
Roma (F.) New York-Naples.

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E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

SPEAKING of an asparagus show in the Vale of Evesham, one of the noted market garden spots in England, the Journal of Horticulture says: "In the opinion of the judges, there is nothing to equal good, dry straw for packing asparagus, as it permits air to circulate and keeps the asparagus in good condition while amply protecting it. They wished to discourage the use of paper, which does not permit of sufficient ventilation."

In the Greenhouse.

Although cucumbers and tomatoes are heat-loving subjects, the thing can be overdone and we now enter a time of year when a clear glass roof is against best results. A little shade means a big help. There are places where road-dust answers all purposes, that is, passing vehicles develop dust which settles over the houses so that the sun's rays are broken. In the majority of cases we must put on the shade. A favorite method is to use freshly air-slaked lime. Stir it up in water until of about the body of paint, screen it and apply with brush or spray pump. We prefer the spray pump. Lime must be air-slaked. If water-slaked it will stick permanently; if old air-slaked lime is used it will wash off with first rain. To air-slake lime quickly we place fresh lump lime in a box or bucket and sprinkle with just enough water to start it to heat and crumble. It should break up perfectly dry and fine.

As a rule, we do not like lime as it injures paint and putty. We prefer whiting, mixed with kerosene, to which we add a few drops of linseed oil to make it adhesive. This sprayed on makes a good shade that will come off when wanted to, yet hang on. North and south houses should have the heaviest coat on the west side, as it is the afternoon sun that is the hottest. East and west houses, of course, need most shade on the south slope. Tomatoes will ripen watery and acid in too high a temperature. With a little shade, they can be finished off meaty and pleasant to the taste.

MARKETMAN.

Manures for Potatoes.

The conclusions of Messrs. Porter and Gaut, from the experiments conducted by them for the Lancashire county council, are to the effect that a heavy dressing (20 tons per statute acre) of farmyard manure results in a smaller return per ton of manure used than is the case with a moderate dressing (10 tons) of farmyard manure. A moderate dressing of the latter, in conjunction with a suitable dressing of artificial manures, is capable of producing a larger and a more profitable crop than a heavy dressing of farmyard manure alone. A "complete" dressing of artificial manures—i. e., containing the three constituents, nitrogen, phosphates, and potash—in conjunction with farmyard manure, gives the largest crop and the highest profit per statute acre. The doubling in turn of each of the constituents in the "complete" dressing does not result in a satisfactory profit, and may, in some cases, result in a heavy loss. Where no farmyard manure is obtainable, large and profitable crops can be grown with the aid of a "complete" dressing of artificial manures.—Gardeners' Magazine.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

Prices of Indoor Fruits and Vegetables.

The prices of indoor fruits and vegetables at leading points June 5 were as follows: New York, cucumbers, 50 cents per dozen; mushrooms, 60 cents to $1 per pound; mint, 30 cents per dozen bunches; tomatoes, 12½ to 15 cents per pound; grapes, 85 cents to $1.50 per pound; cantaloupes, $1 to $2 each peaches, $6 per dozen; nectarines, $6 per dozen; mangoes, $6 per dozen. Kansas City, cucumbers, 50 to 75 cents per dozen; Cincinnati, cucumbers, 20 cents per dozen; mushrooms, 40 cents per pound. Boston cucumbers, $3 to $3.50 per box. Chicago cucumbers, 60 cents to $1.50 per dozen; head lettuce $3 to $6 per bbl.; mushrooms, 40 to 85 cents per pound; tomatoes, 10 to 20 cents per pound; radishes, 20 to 30 cents per dozen bunches; grapes, Gros Colmar 75 cents to $2 per pound; peaches, $12 per dozen bunches; grapes, Grôs Colmar, 75 cents to $2 per pound; peaches, $12 per dozen; English melons, $12 per dozen; peppers, 30 to 75 cents per dozen.

Iris Bucharica.

Iris Bucharica is a promising subject as a hardy plant, says the Journal of Horticulture. Not only does it stand the winter, but it has resisted with more success than we had anticipated the ordeal of the week of hard weather in April, when we had about 16 degrees of frost. The flowers which were open were touched and wasted, but the foliage did not seem to suffer in the least, although its appearance would almost indicate some tenderness. Iris Bucharica is a good plant with handsome foliage, rather like that of I. orchioides, but broader, and the leaves have all the silvery sheen of I. orchioides, but the flowers, which are raised about a foot from the soil, are of a pretty white and yellow. This species was exhibited at a meeting of the Royal Horticultural Society in 1902, and was awarded a first-class certificate on that occasion—an honor well deserved. With us it is grown on a low ledge of rockwork, and in light soil, the position being an open and sunny one, and not sheltered to any extent.

OCONOMOWOC, WIS.—Spring business has picked up considerably in the past few weeks, the backward season making nearly all bedding work considerably later than usual.

THIS SEASON'S FRESH

MUSHROOM SPAWN

which is now being supplied by

JOHNSON'S, LIMITED,

(The actual makers.)

IS IN SPLENDID CONDITION.

All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.

Correspondence invited for **OVER-SEA ORDERS**

Special quotations for large quantities. Prices and particulars on application to

JOHNSON'S, Limited,

44 Bedford Row, LONDON, ENGLAND.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10,000 and over	85
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 00
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	2 00
Chinese Giant and Cayenne	50c per 100
Parsley,	1 25

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

Price $1.00.

AMERICAN FLORIST CO.,

324 Dearborn St., CHICAGO.

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

ALBANY, N. Y.—Elihu S. Miller of Wading River has been appointed by Governor Hughes as one of the trustees of the New York Agricultural Experiment Station. The governor has made a good selection. One could canvass the state from one end to the other and a more progressive agriculturist or florist could not be found. He will prove a valuable assistant in this work, for he has had years of experience in experimental work on his own account.

Lilium Harrisii, Now Ready for Delivery :: ::

Our first consignments have just reached us, and we are now filling early orders. **Easter comes very early next year, March 27th,** and a good many growers will have difficulty in getting Japan Longiflorum in flower in time, and there will be an extra demand for Harrisii in consequence.

In view of the fact that **crop is short,** we advise those who have not already placed order to lose no time doing so. Last year we were not able to meet the demand for our selected Harrisii on late orders, so we urge customers to order without delay. At present we have a good supply still to offer, and will be able to take care of early orders, but there should be no delay in ordering, as there is sure to be a scarcity of good stock, especially in the large sizes.

We offer a selected stock of the original true Harrisii for early forcing. These bulbs have been grown from the original pure Harrisii, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. We have had the stock inspected, and are assured that it is almost absolutely pure and almost entirely free from disease. It is not stock picked up indiscriminately from different sources, but is grown from one stock, and will be found very superior to the ordinary Harrisii usually offered both in regard to purity and freedom from disease and not the late type now so often furnished.

6- 7-in. bulbs, 350 to the case.....$ 6.00 per 100; $ 55.00 per 1000
7- 9-in. bulbs, 200 to the case..... 9.00 per 100; 85.00 per 1000
9-11-in. bulbs, 100 to the case..... 20.00 per 100; 180.00 per 1000
Full case lots at thousand rate.

Large Specimen Hydrangeas

In tubs and half-barrels. For July and August flowering.

We make a specialty of these plants, and have a grand lot in the finest possible condition. Our plants have never been so well budded as they are this season; flowers are just beginning to show color. Extra fine plants in tubs, $3.00 each; very large specimens in half barrels, $5.00 and $7.50 each.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1 235 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

Just arrived the following:—C. Labiata, C. Mossiæ, C. Mendelii, C Harrisoniæ, C. Granulosa, C. Dowiana Dend. Nobile D Wardianum, D. Formosum Giganteum, D. Thrysiflorum. Oncidium Varicosum Rogersi Oncid Phymatochilum, Burlingtonia Fragrans. To arrive shortly: C. Trianæ, C. Percivaliana C Gaskelliana C Schroederæ.

CARRILLO & BALDWIN, Secaucus, N. J.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum D. crassinode D. primulinum, D. thyrsiflorum, and D. chrysotoxum. Others to follow.
Write us for prices.

Lager & Hurrell, Summit, N. J.

BAY TREES.

Standards, Pyramids and Columns.

ORCHIDS
DIRECT FROM THE WOODS Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS.

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Roses == Sold

Except H. P's, H. Cl's, Mosses, and M. Niel. New crops coming along finely.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO.

Splendid Plants. # ORCHIDS Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas:

Labiata, Mendelii, Mossiae, Gigas. Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Mountain Fastness to Grower. Send for Prices.

G. L. FREEMAN, 388 Appleton St., Holyoke, Mass.

Primroses

	Per 100
Chinese and **Forbesi,** July 15	$2.00
Ob. Grandiflora, Alba and Rosea	2.00
" " Gigantea and Kermesina	3.00
Smilax	1.25

Cash.

Asparagus

	Per 100
Plumosus, July 10	$2.00
Sprengeri, ready Aug. 1	2.00

Pansy Seed

Giant flowering, new crop, per oz., 4.00

JOS. H. CUNNINGHAM, Delaware, O.

FERNS

Whitmani, 4-in.....$10.00 per 100
Boston, 4-in..... 10.00 per 100

New White Hardy
Hydrangea Arborescens Grandif. Alba,
2½-in., $3.00 per 100; $25.00 per 1000

JOHN A. DOYLE
Springfield, Ohio.

Ferns...

Whitmani have proven themselves the best of all ferns except the Boston, in our judgement, up to the present time. We are in a position to give you good values in both Bostons and Whitmani. Write us.

GEO. A. KUHL, Wholesale Grower, Pekin, Ill.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants, leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.
2½-in..... $5.00 per 100; $45.00 per 1000

CYCLAMEN.
3-in.....$7.00 per 100 4-in.....$15 00 per 100
5-in .....$25.00 per 100

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO., 1144 N. 7th St., Philadelphia, Pa

Ferns for Dishes

Assorted Varieties.
From 2-in. pots, $3.50 per 100; $30.00 per 1000.

FRANK OECHSLIN
2570-2606 W. Adams St., Chicago
Formerly Garfield Park Flower Co.,

AMERICAN SEED TRADE ASSOCIATION AND FRIENDS AT NIAGARA FALLS, ONT., JUNE 23, 1909.—PR

The Seed Trade.

American Seed Trade Association.

J. C. Robinson, Waterloo, Neb., Pres.; M. H. Duryea, New York, First Vice-Pres.; F. W. Bolgiano, Washington, D. C., Second Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas.; Leonard H. Vaughan, Chicago, Asst. Sec'y. Twenty-eighth annual convention, June, 1910.

L. H. VAUGHAN is in San Francisco.

THE district of Provence, France, is a large producer of alfalfa seed.

D. I. BUSHNELL will spend his vacation at Sheffield, Berkshire county, Mass.

SAN JOSE, CALIF., June 15.—A good shower fell in the Santa Clara valley today.

SANTA ANA, CALIF.—The California Seed Growers' Co. at this point can ripen crops of onion sets by June 1.

SECRETARY KENDEL suggests that the word "purity" be substituted for the word "quality" in the regular seed trade disclaimer.

ONION SET harvest at Chillicothe, O., will begin by July 10. The growers do not twist off the tops but rub them off on the screens when dry.

TRIUMPH radish is the present favorite among private buyers in France; its yield of seed is about 30 per cent less than the tip sorts.

LOS ANGELES, CALIF.—The Japanese truck growers are running out the Chinese in this section of the state, no new Chinese being admitted.

LAWRENCE S. PAYN, representing Andre Leroy & Co., Angers, France, is calling on the trade in their interest. He was a Chicago visitor June 29.

NEW HAVEN, CONN.—F. S. Platt has sold his store building for $75,000, netting him a profit of about 75 per cent after holding it less than two years.

JOHN LEWIS CHILDS reports the best mail order business since 1891, a period of 18 years. His newspaper advertising paid him well and Wonderberry was a winner.

ONE Chicago onion set firm is said to have in hand an order for 10 carloads from a single outside buyer. It would seem that Chicago is becoming the great central market for onion sets.

BUFFALO, N. Y.—The receivers of the Erie Preserving Co. have been offered $3,000 cash for the real estate and machinery belonging to the said company and recommend that the same be accepted.

AMERICAN varieties of beans are catalogued and fully described and illustrated with half tones and color plates in Bulletin 260, dated November, 1908, of the Cornell University, about 100 pages. This bulletin should be in the hands of every seedsman.

GUSTAVE JAENSCH has retired from the firm of G. Jaensch & Co., (Inc.) Aschersleben, Germany, and Lorenz Zopes has taken charge as first director of the concern. Mr. Zopes had charge of the seed department of J. C. Schmidt, Erfurt, for eight years and has since, for the past five years, conducted a seed business of his own under the name of Carl Kampf.

CHICAGO.—Contract prices on the board of trade June 16 for grass seed were noted as follows: Prime timothy, $3.90 (nominal); white clover, $16.—Visitors: Paul Rousset, Paris; J. Wutzinger, representing Conrad Appel, Darmstadt, Germany; H. L. Musser, of Aggeler & Musser, Los Angeles, Calif., and wife, on their way east on a two months' trip; H. G. Windheim, Omaha, Neb., returning from convention, via Detroit; Joseph Louis Schilder, Chillicothe, O.; C. F. Wood, Louisville, O.

NEW YORK.—C. Sackman of Vaughan's Seed Store, Chicago, sailed for Europe June 29 on the Holland-American liner Rotterdam. He will be absent until autumn in the interest of the firm he represents, and will cover leading points where the trade is well represented.—Henry Nungesser and M. Duryea, the bright lights of the big seed store at 65 Pearl street, came back from Niagara Falls well pleased with the convention. Since their return they have been almost too busy to talk, but say they had a good time, and they look it.—Vaughan's Seed Store, 25 Barclay street, has received the first shipment of Bermuda bulbs, consisting of freesias and oxalis. Harrisii lilies are expected on the next steamer about July 9.

President-Elect J. C. Robinson.

The new president was born in 1861 at West Hebron, Washington county, N. Y. His boyhood days were spent on a farm. He received a country school education with a finishing course at Fort Edward collegiate institute. From early boyhood Mr. Robinson developed an intense interest in the seed industry, his first experience being with seed potatoes. For a number of years he was secretary of the Washington county fair.

Mr. Robinson moved to western Douglas county, Nebraska, in 1886. After teaching school a short time he returned east and was married to Miss Mary C. Temple, of Granville, N. Y. In 1888 he established his present wholesale seed growing business, locating at Ashland, Neb., afterwards removing to Waterloo. By untiring energy and close application to business Mr. Robinson, from a small beginning, has developed a large industry. Personally, Mr. Robinson is affable in manner, considerate to all, broad minded, public spirited, and interested in every movement for the

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

F IS THE THIRD MAN FROM LEFT, FRONT ROW. × PRES.-ELECT ROBINSON. ×× SEC'Y KENDEL.

welfare of his town and community. His family consists of Mrs. Robinson and four children, two boys and two girls.

The Seed Trade Convention.

During the afternoon session of June 22, Chas. N. Page of Iowa read that part of the report of the committee on legislation which covered state laws and the same showed a clear and comprehensive grasp of the question, evidently the result of much study. A committee to follow up this part of the committee's work will be named.

The auditing committee, consisting of Messrs. Bolgiano, Briggs and Corneli, found Treasurer Kendel's report correct. Messrs. Breck, Duryea and Phillips were appointed a committee on resolutions regarding the deceased members, Messrs. Flower, Rawson and Allen.

An informal talk was given by Edgar Brown as to the intentions of the United States seed department in Washington with regard to seed testing and the relation of that branch of its work to the seed trade. Incidentally Mr. Brown answered a numbere of questions touching on the relationship of the department to the seed trade.

THE BANQUET.

On Wednesday evening the annual banquet was held in the main dining room of the Clifton House, President Woodruff acting as toastmaster. Five-minute talks were made by Henry W. Wood, J. C. Robinson, E. L. Page, Geo. S. Green, Kirby B. White, Chas. Dickinson, S. E. Briggs, F. C. Woodruff, C. F. Wood, J. C. Vaughan, Arthur B. Clark, Curtiss Nye Smith, Harry L. Holmes and Chas. N. Page. Adjournment was then had to the large parlor, where J. Horace McFarland delivered his illustrated lecture on color photography, which was much curtailed because of the lateness of the hour.

On Thursday morning, at the opening, J. C. Vaughan, chairman of the committee on customs and tariff consisting of W. H. Maule, W. H. Grenell, C. N. Keeney and Benjamin Corneli, read his report for the year, indicating in summarizing that the wishes of the association for specific duties were apparently in a fair way to become accomplished in the new Aldrich bill. The report of the committee was accepted and endorsed.

NEW BUSINESS.

A communication from the secretary of the American Breeders' Association was referred to the new executive committee for action.

CLOSING SESSION THURSDAY AFTERNOON.

The election of officers resulted as follows:

J. C. Robinson, Waterloo, Neb., president.

M. H. Duryea, New York, first vice-president.

F. W. Bolgiano, Washington, D. C., second vice-president.

C. E. Kendel, Cleveland, Ohio, secretary and treasurer.

Leonard H. Vaughan, Chicago, assistant secretary.

Nominating committee for appointing executive committee and membership committee was named by the chair as follows: J. C. Robinson, S. E. Briggs, W. P. Stokes.

On their report the executive committee was chosen as follows: W. S. Woodruff, Orange, Conn.; G. S. Green, Chicago; Alex Forbes, New York; S. F. Willard, Wethersfield, Conn.; Charles N. Page, Des Moines, Ia.

For committee on membership the following were elected: Albert McCullough, Cincinnati, O.; E. L. Page, Greene, N. Y.; J. C. Vaughan, Chicago.

An informal ballot was then taken for choice of meeting place for 1910, the result indicating the preference of those present for Atlantic City, N. J.

President-elect Robinson was escorted to his chair by Charles Dickinson, and in a graceful and feeling manner accepted the office. Following this adjournment was had to the ballroom, where retiring President Woodruff was given a beautiful silver fruit service. The remarks of C. F. Wood who made the presentation speech follow:

"I have been asked on behalf of the committee of the members of the American Seed Trade Association to say a few brief words to you to express their appreciation of your filling the presidency of this association. We fully realize the numberless duties that have come to a position of this responsibility, and we do not know anyone who has filled it in a more fitting or becoming manner than your good self.

"The members have thought best to show their appreciation with a slight token of their regard, and have purchased for you these beautiful silver pieces to grace your board. They are sterling silver, and are intended to be emblematic; the sterling to represent the sterling worth of your character; the shining and polished surface to reflect back to the members of your family your worthy character and to radiate even to the members of this association. We trust you will live to enjoy them for many years."

CONVENTION NOTES.

The first informal ballot for president gave J. C. Robinson 48 votes out of a possible 54.

Members indicated their appreciation of Secretary Kendel's good services by increasing his salary.

W. H. Grenell pleased many of the visitors by taking them out in the local park in his Stevens auto.

Ex-President S. E. Briggs considered the convention, for practical business, the most successful held in recent years.

W. P. Stokes delivers on request a very interesting lecture with lantern slides on "Market Gardeners' Seeds and How to Grow Them."

A Lunzer, the well-known flower painter, is now over 70 years of age and has retired to Vienna, Austria, where he will reside in the future.

The McFarland Publicity Co., Stecher Litho. Co., and Brown Bag Filling Co. made very interesting exhibits of their work at the convention.

The reports of the legislative committee showed more than ever the necessity of every American seedsman joining the Seed Trade Association.

Ex-presidents of the society present were S. F. Willard, Chas. N. Page, T. W. Wood, Geo. S. Green, J. Chas. McCullough, J. C. Vaughan and S. E. Briggs.

An incident was mentioned in which one legislature passed a seed law with little or no consideration although three seedsmen were members of the legislature.

A society of state analysts seems to have been busy the past year promoting the enactment of restrictive seed laws in various states without regard to uniformity.

Bluegrass seed growers report 20 per cent damage to crops by recent rains; will likely cause a darker grade of seed to be harvested. Prices now $1.15-$1.30 per bushel according to grade.

The trade is asking what will be the result of the visit of three representatives in California at one time of the Burpee company: an entirely new strain of sweet peas in named kinds, or a branch Burpee house established at Los Angeles?

Additional List of Members Present or Represented.

E. R. Boller and wife, Rochester, N. Y.
Miss Lilian Boller, Rochester, N. Y.
J. J. Buffington & Co., Baltimore, Md.
Churchill Grain & Seed Co., Toledo, Ohio.
B. W. Dulaney of J. Chas. McCullough, Cincinnati, O.
R. E. Dunham, Berea, Ohio.
F. H. Ebeling and wife, Syracuse, N. Y.
Chas. Eckstein, president Whitney-Eckstein Seed Co., Buffalo, N. Y.
W. P. Fonda, treasurer James Vick Sons Co., Rochester, N. Y.
Harvey Seed Co., Buffalo, N. Y.
C. N. Keeney, LeRoy, N. Y.
Mandeville & King, Rochester, N. Y.
W. H. Mixson Seed Co., Charleston, S. C.

Imports.

During the week ending June 19 imports were received at New York as follows:

Maltus & Ware, 8 cases plants, 78 crates orchids.

Henry Nungesser & Co., 266 bags seed.

J. M. Thorburn & Co., 27 cases, 3 bbls. seed, 7 cases mushroom spawn.

To others, 8 cases, one basket plants, 35 cases orchids, 180 bbls., 56 bags seed.

During the week ending June 26 imports were received at New York as follows:

Maltus & Ware, 10 cases live plants.

A. Schultheis, 2 cases plants.

H. Nungesser & Co., 300 bbls., 150 bags clover seed.

Vaughan's Seed Store, 10 cases horticultural supplies, 6 cases bulbs.

To others, 15 cases, 2 bbls. plants, 181 bbls., 639 bags seed.

Catalogues Received.

Jan Boer & Son, Boskoop, Holland, nursery stock; Warnaar & Co., Sassenheim, Holland, Dutch bulbs and plants; nursery stock: H. Den Ouden & Son, Boskoop, Holland, nursery stock; Kersbergen Bros., Boskoop, Holland, nursery stock; Perry's Hardy Plant Farm Enfield, Eng., hardy ferns.

Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
Correspondence solicited.

Dearborn Engraving Co.
Designers, Printers & Engravers
1322 Wabash Ave., Chicago.
...Engravers for this Paper.

The American Florist Company's DIRECTORY
Contains the names and addresses of all the Florists, Seedsmen and Nurserymen in the United States and Canada. Price $3.00.
AMERICAN FLORIST CO.,
324 Dearborn Street. CHICAGO

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds
ASPARAGUS PLUMOSUS NANUS.
Northern greenhouse grown seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.
ASPARAGUS SPRENGERI,
100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.
VAUGHAN'S SEED STORE,
NEW YORK. CHICAGO.
Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

O. K. Quality
BERMUDA **ONION SEEDS**
VARELA'S
Contract NOW for 1910 delivery. No seedsman is well equipped without my seeds.
FEDERICO C. VARELA, Grower and Exporter Teneriffe, Canary Islands.

Seed PANSY Seed
Brown's Extra Select Superb Giant Prize Pansies,
awarded medals wherever exhibited. Flowers are of enormous size: in beauty and color they are incomparable. Giant yellow with dark eye and pure white, in separate colors. New 1909 seed of my own growing.

3,000 seeds	$1 00	1 oz.	$ 5 00
¼ oz.	1 50	¼ lb.	14 00
½ oz.	2 50	½ lb.	25 00
		1 lb.	$50 00

Cash with order.
PETER BROWN, Lancaster, Pa.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

MICE PROOF SEED CASES
SEND FOR BOOKLET.
HELLER & CO., Montpelier, O.

GIANT PANSY SEED
THE KENILWORTH STRAIN
is unsurpassed: the immense flowers 3½ to 4-in. are of perfect form and substance; every tint and shade is produced in striking combination and endless variations of beautiful colors and markings: it is the result of years of selection. it embraces the largest and best of English, French, German and American novelties. 1909 seed greatly improved in rich shades of brown, bronze red and mahogany. New seed 1000, 25c; 2000, 40c; 6000, $1.00; oz. $5.00. **Rainbow** is a blend of over 50 of the latest introductions of giant pansies of the most beautiful, gorgeous colors, blocked, striped, veined, margined, etc. With every $1.00 worth of Kenilworth strain I will send 1000 of Rainbow free, and with other amounts in like proportion.
Chas. Frost Kenilworth, N. J.

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NOW READY

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Trade Directory

For 1909

Contains 548 Pages. **Price $3.00 Postpaid.**

THE AMERICAN FLORIST COMPANY'S Trade Directory for 1909, fully revised to date, with thousands of new names and changes of address, is now ready for distribution. It contains 548 pages, including complete lists of the Florists, Seedsmen and Nurserymen of the United States, Canada, Central and South America arranged both by states and towns and all names alphabetically. Also lists of Foreign Merchants, Firms Which Issue Catalogues, Horticultural Supply Concerns, Parks, Cemeteries, Landscape Architects, Experiment Station Horticulturists, Botanical Gardens, Seed Growers, and much other conveniently indexed and invaluable trade information.

PUBLISHED BY THE

American Florist Co.

324 Dearborn St., Chicago.

The Nursery Trade

American Association of Nurserymen.

C. J Brown, Rochester. N Y., President; C M. Hobbs Bridgeport. Ind., Vice-President, Geo. C. Seagar Rochester, N. Y Sec'y. Thirty fifth annual convention to be held at St Louis or Denver June 1910.

THE McFarland Publicity Co. is sending out a series of very attractive photographic post card souvenirs of the Rochester convention.

PRESIDENT B. H. FARR of the American Peony Society was at Cornell last week working with a committee on nomenclature in the peony plot.

WOOD RIVER, NEB.—The Wood River Nursery Co., has given notice of an increase in its capital stock which is raised from $25,000 to $100,000, divided into 20,000 shares at $5 each.

Trees and Shrubs at Rochester, N. Y.

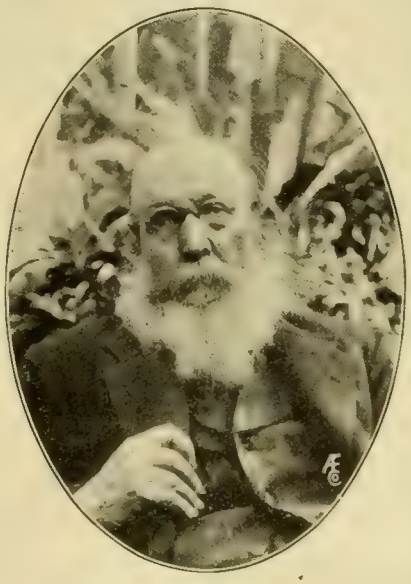
The present week has been remarkably hot and dry, with temperatures ranging in the daytime from 75°-88°, and the duration of all flowers has been short. We omitted to state in former notes that Paulownia imperialis with its showy pale lavender flower clusters was in full bloom about June 5. It flowered in great abundance this year and whilst it cannot be pronounced hardy in Rochester, there are several instances of trees 40-50 feet in height in well sheltered situations.

Cornus Kousa, which opened its first flowers on June 12, is still in good bloom, and is a remarkably beautiful small flowering tree. Whilst the most of its showy white-bracted flowers are conspicuous, a great many of them are hidden amongst the branches. The hybrid dogwood, C. Arnoldiana, is now in good bloom and has been since three to four days. C. candidissima (paniculata) was in good bloom on June 24. This is an excellent shrub for border plantations. C. Purpusi is just coming in flower, and is usually from three to four days behind C. candidissima. C. macrophylla came into flower on June 12, and was in good bloom from eight to ten days. The large flattish white flower clusters were very showy.

Magnolia Thompsoniana, which is a hybrid between M. glauca and M. tripetala, has beautiful white fragrant flowers, and was in full bloom on June 16. M. glauca, with smallish globular, fragrant flowers, was in full flower about the same time as the last. M. macrophylla, with fragrant flowers 10 to 12 inches across, came in bloom on June 19, and is now in good flower. A large well developed individual of this handsome magnolia grows in the home grounds of the Ellwanger & Barry nurseries. M. parviflora and M. Watsoni are still flowering. The tulip tree (Liriodendron tulipifera) was in full flower on June 18, and has still a number of blossoms.

Jamesia Americana, which came in flower on June 12, has still a number of lingering blossoms. The dense cymose clusters of pure white flowers, one-half to three-fourths of an inch in diameter, are very pretty, and the deep green oval leaves, about one and one-half inches wide and two inches long, densely pale pubescent beneath, on short stout stalks, are very distinctive. It has flowered very freely this season.

Spirea bracteata (rotundifolia of nurseries) was in full flower June 16. The white flowered umbels are showy. The roundish bluish green leaves which persist until late in the season, and its good habit render this an excellent garden shrub. S. canescens (flagelliformis) produces small white flower clusters along the branches, and is partly in bloom. It is not reliably hardy with us, but it will flower freely this season. A spirea under the name of Froebeli, which has been sold in some nurseries for a number of years, with flattish clusters of dull purplish red flowers is now in bloom. Physocarpus opulifolius, with its numerous umbels of spirea-like whitish flowers, is now in full bloom. This seeds abundantly and will become a nuisance if not watched.



James Hutchinson.

A large number of different forms of diervillas have been in bloom since June 1. During recent years the flowering period of diervillas has been much extended by the introduction of a number of showy early and late blooming forms. Le Printemps, Gracieux, Floreal, Fleur de Mai and Praecox, with flowers varying from rosy white to rosy red are some of the new forms that bloom in the first week in June. Amongst the best forms in bloom on June 16 were Rosea, with rosy red flowers; Candida, white blossoms; Teniers, wine-red flowers; Voltaire, deep rosy red blossoms with a tinge of purple; Stelzneri, rosy purple flowers; Abel Carriere, rosy carmine blossoms; Symondsii, very showy flowers in a mixture of rose and white; Van Houttii, reddish carmine blossoms. The late flowering diervillas are mostly in varying dark red colors in which the blood of D. floribunda seems to predominate. Amongst some of them are Lavallei, deep red small flowers; Gavarni, dark carmine blossoms; President Duchartre, deep amaranth flowers; Dr. Baillon, deep red blossoms; Montesquieu, handsome dark amaranth flowers; Othello, amaranth blossoms; Eva Rathke has deep carmine red, shading to amaranth flowers, is about the last to bloom, and produces flowers quite freely throughout the season. It has lately become a very popular shrub in gardens.

JOHN DUNBAR.

James Hutchinson, Pittsburg, Pa.

VETERAN PARK MAN RETIRES

We have pleasure in presenting a portrait of James Hutchinson, who, for 40 years, has been foreman of the gardens at the Allegheny park, Pittsburg, Pa. During Mr. Hutchinson's long incumbency he has gained the friendship and respect of thousands of residents, many of whom have known him from childhood and all of whom though regretting his absence from active participation in the work of the parks, wish him long continued good health and happiness in his retirement. Mr. Hutchinson comes of good gardening stock, his father, John Hutchinson, having begun to teach him the art at the early age of 10 years.

But to begin at the beginning our friend was born at Stockport Landing, on the beautiful Hudson river, in New York on October 22, 1829. Seven years after the family moved to Pittsburg, where Mr. Hutchinson, Sr., had charge of several of the gardens of people of wealth and prominence. James soon got interested in this work and recalls such names among his father's patrons as Charles Spang, of the Spang iron works; Gen. William Robinson, the first mayor of old Allegheny City, whose old homestead and gardens were at the foot of Federal street at Sixth street bridge. At the time of the great fire at Pittsburg in 1845 he was with the Hedge Farm Nurseries, owned by Murdock Bros., at that time one of the largest and most successful nurseries in existence. While with this firm his father was appointed superintendent of the Mount Union cemetery and he went to work with his father there and stayed until 1857.

In that year Mr. Hutchinson was married to Margaret A. Cheetham and he went farming, continuing in this line until 1863, when he again took up his landscape work and has followed it continuously until his retirement this year. From 1863 to 1869 he was with Thos. S. Clark, whose large and well arranged gardens were at that time a delight to residents in the aristocratic Oakland section of Pittsburg. On the death of Mr. Clark he went to the Allegheny City parks. At that time the old pasture or commons were being converted into a park, the improvement being under the control of a park commission incorporated for 10 years. It consisted of Archibald Marshall, Jonathan Gallagher, Wm. Lee, James Park, Jr., president of the commission, and the Hon. Alex Callow, mayor.

"From a pasture and dumping ground for ashes, tin cans, etc.," Mr. Hutchinson says, "it has grown step by step to be a thing of beauty and, I hope, a joy forever. There are ties and associations connected with the park that I dwell upon. December 14, 1878, I stood beside Gen. U. S. Grant when he deposited several shovels of earth upon the roots of an American linden, which I afterwards had the honor of finishing planting with the shovel which he had used. The tree

was recently cut down on account of decay. Tree culture is a very difficult problem in this park on account of the smoke from trains passing through it. There are a great many things I might add, but I feel that my time and space in your paper will not permit. To make a long story short, I have been almost 70 years in continuous service in the useful art of trying to make things more beautiful so that the present and future generations may live to enjoy the pleasures of our city parks. It was with great reluctance that I gave up my lifelong work." Mr. Hutchinson also sends good wishes to THE FLORIST, which we most heartily reciprocate and trust he may spend many happy years in the retirement which he has so well and truly earned.

American Ass'n of Park Superintendents.

A TRIP TO SEATTLE.

A very interesting trip, which about 50 have already promised to join, has been planned by the American Association of Park Superintendents on the way to its convention at Seattle, Wash., August 9-11 and Tacoma, Wash., August 12. The itinerary will take in many points of interest in Minnesota, the Dakotas and Yellowstone Park and full particulars can be obtained by addressing Theodore Wirth, superintendent of parks, Minneapolis, Minn. Those taking an evening train from Chicago Wednesday, July 28, will arrive about 8 a. m. in Minneapolis, in time to inspect the parks here and at St. Paul. Headquarters will be at the West hotel, Minneapolis, where a trip through the parks will be arranged, the party leaving Minneapolis over the Northern Pacific railway at 10:45 p. m., Thursday, July 29.

The convention opens at Seattle August 9 with an address from the mayor, to be responded to by John W. Duncan and after the business of the session an excursion to various parks will be given. Sessions will be held also on Tuesday and Wednesday, the election of officers taking place on the latter day, while on Thursday the meeting in Tacoma will be held and a trip to Paradise park as guests of the Tacoma park board will be enjoyed. Papers are expected from many prominent men in the association and a very good time is looked forward to.

Letters have been sent to park commissioners and eligibles not already members by F. L. Mulford, secretary-treasurer, asking their co-operation and inviting them to be present at this trip and convention, which should prove most enjoyable and profitable.

The exhibition of park photographs which has been got up for the Alaska-Yukon-Pacific exposition under the auspices of this association has now been put in position in the agricultural building of the exposition and comprises undoubtedly the finest collection of park views ever exhibited in this country. The scheme of such an exhibit was conceived by the president of the association, John W. Duncan, Boston, Mass., and all the leading cities whose superintendents are members of the association, readily responded with their quota of pictures for the exhibit. They will remain on exhibition until the close of the exposition.

CONVENTION PROGRAMME.

August 9—First session 9 to 12 a. m. in chamber of commerce. Address of welcome by the mayor of Seattle. Response by the president of the association. Reports of secretary-treasurer and general business. 1:30 p. m.—Excursion to Volunteer park, Interlaken drive, Washington park over Roanoke extension to Woodland park. 8 p. m.—Evening session. Reading of papers and discussion.

August 10—9 a. m.—Business meeting, reading of papers and discussion. 1:30 p. m.—Lischi park around Mercer island to Alaska-Yukon-Pacific exposition grounds, where the rest of the day will be spent.

August 11—9 a. m.—Business meeting, election of officers, choosing place for next meeting, and other unfinished business. 1:30 p. m.—visit to playgrounds along the boulevard to shore of Lake Washington and over the Bailey peninsula.

August 12 and possibly August 13 will be spent in the Paradise valley and in the city of Tacoma under the direction of the park board of that city.

Texas Nursery Inspection.

Austin, Tex.—In accordance with the new nursery inspection law, the inspectors of the state department of agriculture will on July 1 begin the inspection of the nurseries all over the state. While the department is able to locate the Texas nurseries, there has been so far considerable difficulty in ascertaining who the agents of the out-of-state nurseries are, and who have, and sometimes have not, a permit to do business in Texas. The new law requires the agents of these out-of-state nurseries to have credentials. These credentials must tell the domicile of the nursery in Texas, and the agent is made responsible for the nursery in this state.

100,000 PEONIES For Fall Delivery

All of the Leading Varieties from the COTTAGE GARDENS' FAMOUS COLLECTION.

Our enormous stock enables us to send out tubers of the very highest quality, and in filling orders we use undivided roots only—assuring an abundance of flowers the first season. This year we offer 1, 2 and 3-year plants.

Wholesale List Now Ready. Send for a Copy.

COTTAGE GARDENS COMPANY, Inc.
Queens, Long Island, N. Y.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,
AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Clematis** And all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

BOX TREES

We have just received a carload of fine, shapely compact trees in the following sizes:

Pyramidal Shaped

Height.		Each	Pair
5-ft.....		$ 7 00	$13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$8 00
18-22 in.	30-32 in	$5 50	$10 00
22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

18 to 22 in. high,....Each, 60c. per doz., $6 00

Vaughan's Seed Store,

All Plants F. O. B. Western Springs, Ill.

84-86 Randolph St., CHICAGO.
25 Barclay St., NEW YORK.

Greenhouses and Nurseries: Western Springs, Ill.

Book for Florists, Spring Edition, Now Ready.

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.

Write for descriptions and prices.

THE WM. H. MOON CO.,
Morrisville, Pa.

THE
Storrs & Harrison Co.

PAINESVILLE NURSERIES.

CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....

PAINESVILLE, OHIO.

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.

ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

Two Special Offerings

Kentia Belmoreana.

The above cut shows the plant in 8-in. pot, at $6.00 each.

Kentia Belmoreana

The following list of **Kentias** shows an exceptionally fine lot of perfect plants, sure to give satisfaction:

				Each
3-in. pot,	4 leaves,	height	10-12	$2 00 per doz.
4 in. "	4-5 "	"	14-16	$0 35
5 in. "	5-6 "	"	18-22	75
6 in. "	5-6 "	"	20-24	$1 00 to 1 25
6 in. "	5-6 "	"	24-28	1 50
7 in. "	6-7 "	"	24-30	2 50
8 in. "	7-9 "	"	36-42	6 00

Areca Lutescens

We have an exceptionally fine lot of **Areca Lutescens.**

Size pot	Each	Doz.
3-in.		$ 2 00
4-in.	$0 25	3 00
5-in.	50	5 00
6-in.	75	9 00
7-in.	2 00	24 00
8-in.	3 00	36 00
10-in.	5 00	60 00

We can recommend the above as good values, and will say they are fine, perfect made-up plants, thoroughly established and sure to give satisfaction.

Get your name on our mailing list by sending for our catalogue.

Areca Lutescens.

The above cut shows one of our largest sizes in 10 in. pot, at $5.00 each.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago

The Faculties of Plants.

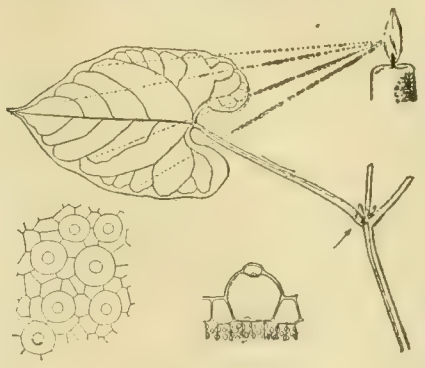
That plants are really alive is but grudgingly conceded by even the well-informed and when this concession is made, it is always with the mental reservation that while they may be alive after a fashion, yet their "aliveness" is not of the sort that characterizes animals. This prejudiced view finds its expression in various ways, among which may be included the habit of writing and thinking of plants as lower organisms, or perhaps as degenerates.

In order to appreciate the real place of plants in the world it is necessary to recall that they are composed of protoplasm, the common essential substance of plants and animals alike. Now, protoplasm has certain general primitive properties, which it exhibits no matter whether it be found in the leaf of a fern, the tip of a root, the trunk of an oak, the body of a horse or the brain of a man. In each of these cases, however, it has taken on other specialized powers, which enable it to perform the complicated work of the organism of which it forms a part.

PROTOPLASM.

Some time within the last hundred million years, or, to be exact, about sixty million years ago, says Dr. D. T. MacDougall, of the Botanical Department of the Carnegie Institution, in the Scientific American, protoplasm came into existence on the surface of the earth, in a manner wholly unknown. It was probably in the form of small specks or masses of a jelly-like substance of complicated structure, although not so complex as the protoplasm of today, and was extremely liable to injury by almost any force. By reason of its great fragility and complexity it was necessary that it make constant adjustments to the forces (such as heat, light, chemical activity, mechanical shock and contact) that impinged upon it. That it was capable of making adjustments made possible its continued existence until today.

It is impossible for us to retrace the long way back to this original stage of living matter and to ascertain all of the things it may have done in that day-before-yesterday of science. It may have started to solve the problems of existence in a score of ways not easily imaginable for us, but its forgotten failures have left no trace of their existence. Not that this primitive living matter consciously tried to find a distinct way of doing things, but in the very nature of its activity it must have done many things foredoomed to failure. Of the things that it did do, however, those that followed two general methods of procedure were successful, and by them the two main groups of organisms have been produced, which are no more to be compared than a telescope and an automobile, or an automobile and a warship, so different are they.



The Faculties of Plants.

Leaf Blade Receiving Rays of Light at a Stimulating Angle After the Signal Travels Down the Stalk to the Motor Organs. Epidermal Cells Which Converge the Rays and Are Sensitive to Oblique Rays.

The adjustments by which protoplasm fits itself more perfectly to its surroundings are guided by its primitive property of irritability, the power of perceiving changes in the intensity of the light rays playing upon it, in the degree of heat of the air around it, of the soil on which it rests, of distinguishing between dry and moist objects, and of reacting differently to hard and soft bodes in a way that generally adapts the living substance to endure, and make use of these factors.

IRRITABILITY.

Having this primal capacity, the long-continued play of evolutionary forces led gradually to its development into forms which would serve the organism better and better. Irritability has been developed in the animal into the senses, and with this development there has been a constant tendency to localize and seat the different phases of it in the specialized sense-organs, which deal chiefly with one class of forces. A moment's reflection will show that it is the specialized irritability of our sense-organs that guides us, as highly differentiated masses of protoplasm, in making the thousands of adjustments that enter into our daily activities.

Light is, perhaps, the most important factor in the existence of plants, since energy is absorbed directly from its rays and is used in building up complex foods from simple substances obtained from the soil and air. If the plant is to obtain energy from light, the supposition would lie near that it must present its surfaces to the rays in such manner as to enable it to do this advantageously, for the amount of benefit to be derived from the rays would depend directly upon their intensity, and upon the angle at which they strike the surfaces. With this fact in hand one would at once suspect that the plant might have developed some power of measuring the intensity and direction of the rays.

SCIENCE WORKS IN THE DARK.

If each of us were as large as a mountain and had the tiny organism, man, in an experimental laboratory for the purpose of testing his power of distinguishing light and darkness, we might go about getting at the facts in several ways. The readiest method would be to blindfold him. Not knowing anything about eyes we might suspect that the five-digitate antennæ he uses so vigorously and so variously might be able to perceive light. To test this supposition we would perhaps tie a cloth impervious to light around one arm, and seeing that he still could tell light from darkness we might swathe both arms. This test being a failure—and both the test and the failure are highly reminiscent of the ways of scientific work—we would remove the bandages from his arms and perhaps wrap them around his head, with the result that we would presently ascertain by what means this peculiar biped knew night from day.

The same method applied to a plant will lead to similar knowledge. Any

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN WELL ESTABLISHED Plants

Kentia Belmoreana

		Each	doz.
6-in. pot,	22 to 24 in. high	$ 1 00	$12 00
6-in. "	24 to 26 in. "	1 25	15 00
6-in. "	26 to 28 in. "	1 50	18 00
9-in. tub	42 to 48 in. "	5 00	

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high	$ 4 00 each
12-in. " 4 plants, 6 feet high heavy	15 00 each
12-in. " 4 plants, 6 to 8 feet high, heavy	20 00 each

Joseph Heacock Co., Wyncote, Pa.

group of window-plants may be seen bending toward the glass in such manner as to present the broad upper surfaces of the leaves at right angles to the strongest illumination. The whole shoot appears to be concerned in the reaction, and we must use the blindfolding method to ascertain what parts are sensitive to light. If sheets of tinfoil are bound around the stem, and it is turned away from the window, the next day it will be found to have curved back toward the window. This shows at once that the individual under treatment perceives light without the aid of the stems, although the swathed

The Faculties of Plants.

A Grass Stem Prostrated by Wind and Raised by the Action of Its Motor Organs.

stems curve in the reaction. Next turn attention to the flowers if present, and when these are black-capped the plant still turns unerringly to the proper quarter to receive its daily dole of sunshine. The leaves are now to be considered as a seat of the light-perceiving faculty. In most cases these organs have a distinct stalk or petiole, and a broader blade, the chief purpose of the latter being to spread out in an expanse of green tissue, which entraps the rays and makes their energy available for the chlorophyl processes. Inclose the stalk of the leaf in tinfoil or black cloth, and the plant still turns its faces to the light, but sheathe the broad surfaces of the blade and it is truly blindfolded, and now does not turn toward the window when removed from it. Some plants, however, are capable of perceiving light in a feeble but much less accurate manner on portions of the stem and petioles.

If prepared sections of the blades of some of the more delicately reacting plants are placed under the microscope it will be found that the outer walls of the epidermal cells are curved outward, making lenses which converge the rays upon the inner walls, and allowing them to be transmitted to the cells beneath, where they play upon the green color-bodies in which the construction of food-material takes place. Imagine one of these epidermal cells to be a room with a convex skylight roof and a glass floor. When the rays come through and fall upon the floor they pass through to the room below, and drive the chlorophyl-mills making sugar and other substances. The lateral walls of the skylighted room are lined with a living layer sensitive to light, and if the leaf or the building is moved so that the rays strike the sensitive layer a signal is sent to a distant shifting mechanism. Slowly, but with unerring precision, this gets in motion and brings the leaf to a

ANNOUNCEMENT

BUSH HILL PARK, ENFIELD, MIDD'X, JUNE 1909.

Dear Sir:—

RE HUGH LOW & CO., (Dissolved)

In consequence of the voluntary dissolution of my late firm, I have much pleasure in informing you that I have taken over the **Royal Nurseries,** with the greater part of the stock. These nurseries were formed by me in 1881, under the instructions of my late father, and since his death I have taken an active part in the direction of the business.

The staff which is transferred, practically intact, includes such well-known men as my representatives: Mr. Harry A. Barnard, Mr. F. W. Ashton and Mr. Laurence J. Cook, Mr. Edward Tack as Orchid specialist and grower, Mr. M. C. Allwood, the enthusiastic Carnation man, Messrs. Moore, Reid and Meades, amongst the roses and fruit trees, and Mr. Phillips in the General Department.

I feel that with such men at my back, clients can rely upon the same care and attention being given to their business as under the old regime.

Esteeming your orders and enquiries. Believe me to be always at your service as heretofore. Obediently yours,

STUART H. LOW.

Please address all communications to **STUART LOW & CO., Bush Hill Park, Enfield, Midd'x.**

ROSE PLANTS. CLEARING OUT SALE.

Best Stock. Lowest Prices.

From 2½-inch Pots	100	1000
American Beauty	$ 4 00	$ 35 00
Richmond	2 50	20 00
My Maryland	5 00	40 00
Bridesmaid	3 00	25 00
Chatenay	3 00	25 00
Perle	3 50	30 00
Countess of Gosport	4 00	35 00

From 3-in. Pots	100	1000
American Beauty	$ 5 00	$45 00
Richmond	3 50	30 00
Killarney	5 00	45 00

Asparagus Sprengeri

2½-in. pot plants.....$2 00 per 100

PETER REINBERG, 1,800,000 Feet of Modern Glass **35 Randolph Street, Chicago**

position where the rays once more come through the condensing skylight and pass through the floor to the food-making cells below. In accordance with this action the plant moves all of its leaves into fixed positions, in which they receive the daily illumination most advantageously. In certain cases the leaf blade performs delicately gaged movements, by which it receives the rays until they become so intense as to be harmful, and then the surfaces are turned away from the source of the rays.

SENSITIVENESS TO LIGHT.

The exactness with which the plant can measure intensity of illumination is not to be easily realized, but the following test will serve as an exemplification: A small, rapidly growing shoot, such as that of a young mustard plant, is placed in a dark room for a few hours until it has lost all effects of stimulation from light. Then two standard candles are placed at distances of three yards on opposite sides and the sensitive leaves will receive stimulation of equal intensity on both sides and may remain stark upright. If one of the candles is moved an inch closer the shoot will begin to curve toward it as toward a window. The intensity of light varies as the square of the distance from its source, and it has been found that some plants can appreciate a difference so small as one three-hundred-thousanth of the intensity of a candle at a distance of a yard. It may be seen, therefore, that but a slight movement of one candle would be necessary to disturb the equilibrium of the shoot in the experiment in the dark room. Indeed it is difficult to place the candles correctly in the first place. It is needless to say that such delicacy of reaction is far beyond the capacity of the unaided human eye. Nor is the sensitiveness of the shoot confined to an appreciation of intensity, for a marked power of distinguishing colors is shown, and the plant responds differently to various portions of the spectrum. The blue and the red do not excite the plant alike, as it bends toward the source of the first and is indifferent to the second.

IMPULSE.

The tests described above indicate that the blades of the leaves chiefly receive stimulation from light, but an examination of almost any species shows that the curvature does not take place in the blades but at the bases of the leaf-stalks, or in the stems, in portions which may be a few inches or a foot away from the blades. In almost all cases the movement takes place in tissues more or less widely separated from the part which is sensitive to illumination. This may be proven conclusively if all of a plant except the blade of a single leaf be blindfolded and then subjected to illumination from one side. The curvature will take place in parts of the plant kept in darkness, and we are justified in concluding that the light-receiving or light-perceiving organs send some kind of an impulse or signal to the distant motor tissues which cause the movement.

Some species have upright leafy shoots, while others are creeping or decumbent. In either case the machinery of the organism is exactly adapted to return and hold the root and shoot in the characteristic position. The perception of position is not one of the keenest activities of the animal, but it is of very great importance to the plant, and the mechanism by which it perceives its relation to the vertical is one of the most delicate of all vegetable structures. The essential part of the apparatus consists of cells containing numbers of freely moving granules, which rest against the delicate layers of protoplasm which line the walls. When they are in contact with the wall of the cell which is normally lowermost the organ remains at rest. If the wind lays the shoot prostrate, or if a root is diverted from its course, the granules in hundreds of cells are thrown against the lateral walls and countless signals are sent to the motor zones, and curvatures ensue which bring the tips of the organs to their proper positions.

MARY TOLMAN

A new light salmon pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

A New Seedling Carnation :: :: :: Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

AMERICAN BEAUTY

$3.00 per 100; $25.00 per 1000.

Strong, clean, healthy plants from benches. **We need the space. Hence our offer.**

J. A. BUDLONG

37-39 E. Randolph St., **CHICAGO.**

OWN ROOT ROSES

To close out, we offer this stock at a low price. Every plant we have on hand is clean and vigorous. For immediate benching this stock will be found just right. It is not yellow or mildewed.

Killarney, Richmond, Chatenay Mrs. Potter Palmer, Bride and Bridesmaid,

3-in. pots ready for 4-in $5.00 per 100; $40.00 per 1000 **Brides and Bridesmaids** 2½-in. pots, $4.00 per 100; $35 00 per 1000.

S. J. REUTER & SON, Inc.,

WESTERLY, R. I.

New Carnation Lucille

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convineed that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

GRAFTED ROSE PLANTS

Choice stock ready to plant in the benches.
2,000 Maids, 4-inch.....$12 00 per 100
3,000 Brides, 4-inch.....$12 00 per 100
4,000 Killarney, 3 1-2-inch..... 15 00 per 100

OWN ROOT ROSE PLANTS.

5.000 Kaiserin, 3-inch .....$4 00 per 100
5,000 Maids, 2 1-2-inch.....$3 00 per 100

Killarney Bench Plants **Grafted, 2 years old. Price, $50.00 per 1000.** Ready for immediate shipment. These plants will make fine stock for replanting in the benches.

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

Grafted Roses

Strong, thrifty plants in 3½-in. pots.

Bride, Bridesmaid, Kaiserin, Richmond, Chatenay,

$12.00 per 100.

Rhea Reid and Mrs. Jardine,

$20.00 per 100.

Jackson & Perkins Co.
Newark, New York.

ROSES

	Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2¼-in.	5 00	45 00
Perle, Fine, strong 2½-in.	5 00	45 00
Richmond, Fine, strong 2½-in.	5 00	45 00

	Per 100	1000
Bride,	$ 5 00	$ 45 00
Maid,	5 00	45 00
Potter Palmer, 2½-in.	5 00	45 00
Kaiserin, 3½-in	6 50	55 00
Uncle John, Fine strong, 2½-in.	4 00	35 00
Killarney, Fine, strong, 2½-in.	5 50	
" 3½-in.	7 50	

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia,** the early yellow, exceptionally fine, ready now. R. C., $2 50 per 100, $20 00 per 1000; 2½-in., $3 00 per 100 $25 00 per 1000. No more Virginia Poehlmann until July 2, only R. C. For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in.... $4 00 per 100: $35 00 per 1000
Smilax, 3-in..... 4 00 per 100: 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash. Terms: 30 days net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., **Morton Grove, I**

Roses! Roses! Roses! GRAFTED AND OWN ROOTS.

GRAFTED

White Killarney, $30.00 per 100. **My Maryland,** $20. per 100.

Rhea Reid, Mrs. Jardine, Killarney, Richmond. Rose pots, $15.00 per 100; 3½ in. pots, $18.00 per 100. Brides, Bridesmaids Golden Gates Kaiserin, Rose pots, $10.00 per 100; 3½-in. pots, $15 00 per 100.

OWN ROOTS

Rhea Reid, Richmond, Killarney, American Beauty, 3-in. pots $9.00 per 100; 4-in. pots, $12 00 per 100. Brides, Bridesmaids, Perle, 3-in. pots, $7.00 per 100; 4 in. pots $9.00 per 100.

J. L. DILLON, **Bloomsburg, Pa.**

ROSES --- Own Root

Brides, Maids, Richmond and Perles
4-in., $8.00 per 100; $75.00 per 1000.

My Maryland, Mrs. Jardine, Rhea Reid and Queen Beatrice
4-inch, $12.00 per 1000. No better stock on the market.

Grafted Plants, 4-inch
My Maryland, Golden Gate, Mrs. Jardine Rhea Reid, $20.00 per 1000.

Asparagus Plumosus and Sprengeri
Fine year old plants, from the bench, $8.00 per 100; $75.00 per 1000.

CHARLES H. TOTTY, **Madison, N. J.**

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$4 00	$35 00
Brides grafted	4 00	35 00
Maids, grafted	4 00	35 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	$4 00	$35 00
Smilax	2 50	20 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,
WEST GROVE, PA.

SPRINGFIELD, ILL.—Geo. Brinkerhoff has been sick for several days.

WHITTIER, CALIF.—Preliminary arrangements are being completed for the annual flower show, under the auspices of the Woman's club, that was so successful last year.

LOS ANGELES, CALIF.—Everett Crippen, a gardener, about 40 years old, ended his life with a bullet in a rooming house at 622 Maple avenue, June 25. The cause given is that he felt disgraced because he had been arrested on a charge of drunkenness. Crippen was taken into custody and placed in the city jail June 17 and he had worried about it since he was released upon the payment of a fine. Crippen's divorced wife and 15-year-old son reside in Washington, D. C.

MORGANTOWN, W. VA.—Lucetta B. Imbach, the seven-year-old daughter of Prof. Theo. F. Imbach, floriculturist at the West Virginia Experiment Station, died June 19 from a complication of diseases following scarlet fever. Her knowledge of shrubs and greenhouse plants was way above the average florist's. She could name more than 1,000 plants; they always were her playthings. She was laid away in flowers, as they seemed to come from everywhere. They were the largest collection ever seen here. The parents have the sympathy of all.

BAY TREES

(LAURUS NOBILIS.)

A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap will allow 10 per cent discount.

Standard

Stem, about
25 to 27 inch
36 to 38 inch
44 to 47 inch.
45 to 47 inch.

or Tree Shaped.

Crown	Each
20 to 22 inches.....	4 50
24 to 26 inches.....	6 00
20 to 22 inches.....	6 00
36 to 38 inches.....	12 00

All Plants F. O. B. Western Springs, Ill.

Pyramidal Shaped

5 feet high, 20 to 22-in. diameter at base....$ 7 50

Greenhouses and Nurseries: Western Springs, Ill.

Vaughan's Seed Store,
CHICAGO.
NEW YORK.

Cleveland.

SEASON OVER.

The busy season is now at an end as there will be no holidays of note until Thanksgiving. Everybody is talking vacation and the coming convention, at which, from the number heard from, this city is to be well represented. Remodeling and changing stores and offices to better the facilities are now the most important things on the docket. The past week has been a fairly good one. This week has shown a very heavy glut in carnations, and even the street fakir has turned away from them, saying there has been no business. The quality also has suffered considerably on account of the very hot weather, and we are all looking forward to the end of the crop, as people become tired of the flowers they have purchased all winter. Peonies are done for, only storage stock of limited quantity being available. Water lilies are in good supply, but owing to the large quantities of peonies and carnations have had not much call as yet. Shasta daisies, coreopsis and outdoor peas are coming in strong. Iris is plentiful, but the call limited. Roses of all kinds are showing the effects of the hot weather, making them harder to move and lower in price.

NOTES.

— Jones and Charles Russell of the Gasser Co. have leased the store on the corner of Euclid and Huron road, and will start a first class retail store this fall. This is going to be a good location as all the big stores are locating near by.

Westman & Getz have added a delivery outfit, a horse and wagon, which means increased facilities for handling their business.

The street fakirs are in their glory now as they can get all the flowers they need at very low prices.

Several west side retailers are still keeping up their carnation sales, which moves considerable stock.

P. J. Bauers, Superior street, has used considerable smilax lately owing to church festivities. C. B.

GERANIUMS

"Are a Specialty with Us."

A gentleman well known in the horticultural world said a few days ago when looking over our place, that, "generally when we think of 'Vincent' we think about 'geraniums.'" That is all very well, but what we want you to do is when you think about "geraniums" to think about "Vincent," and if you will think about what you are going to grow next season, and will write us we will give you a special price that will interest you to the extent that we will have your order booked by return mail. This will enable us to gauge our propagation to better meet the demand.

The collection we are offering for next season will without a doubt be the best commercial collection ever offered to the American trade.

Easter will come early next spring, March 27th, so you will want to get your geraniums in good time; and by the way, is there not more sure money in good geraniums than some other stock generally grown for Easter?

For Immediate Shipment.

We will send 1000, 50 each of 20 good distinct kinds, our selection, in either single or double, from 2-in. pots, for $18.50; from 3-in. pots $25.00.

——Cash with order.——

R. Vincent, Jr., & Sons Co., White Marsh, Md.

A FEW GOOD THINGS YOU WANT.

Asparagus Sprengeri, 2-in., $2.00 per 100; 3-in., $5.00 per 100. Seedlings, $1 00 per 100.
Geraniums, Nutt Doyle, Perkins Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots $2.00; 3-in., $4 00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-ih pots, $2 50; 3-in., $5 00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in., $3.00 per 100; 3-in., $5 00 per 100.
Vinca Var., 2-in., $2.00 per 100, 3-in., $5.00 per 100.
Dracena Indivisa, 3-in., $5.00 per 100; 4-inch $10.00 per 100.
Coleus, red and yellow, $2.00 per 100. **Cigar Plant; Scarlet Sage** (Salvia). Bonfire, 2-in., $2.00 per 100. **Alternantheras,** red and yellow. **Verbenas. Ageratum,** blue and **Heliotrope.**
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100

Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, Newton, N. J.

ASTER PLANTS

Semple's, Vick's and **Queen of the Market,** fine plants, grown from the best seed, three colors: $2.50 per 1000; $10.00 per 5000.
GERANIUMS, 4-in., in bloom, $4 00 per 100; 2½-in., $1.50 per 100; best varieties.
CABBAGE PLANTS, all kinds, from the field, $1 00 per 1000; 5000 for $4.00.
CAULIFLOWER, and **PEPPERS,** $2.50 per $1000.
TOMATOES, all kinds, $1.50 per 1000.

J. C. SCHMIDT, Bristol, Pa.

Buffalo.

A BUSY WEEK.

The past week has been one of fine weather and a busy one. School commencements and weddings were very much in evidence and all are satisfied with the business considering that some schools forbid flowers of any kind at the commencements. But we expect to overcome that another year. Greenhouse trade is about at an end and the growers will now proceed to repair and get things in readiness for fall and the S. A. F. convention. Sweet peas are coming in now and are of the very best, both in color and quality. The curtain has been rung down on good Bride, Bridesmaid and Killarney roses and next week will see the Kaiserin and Carnot coming in, which are very acceptable to the trade. Some fine Spanish iris has been on sale in the stores.

GERANIUMS..

Rooted cuttings of Ricard, Poitevine and Nutt all the year 'round. Summer prices. $1.00 per 100.

Smilax and Sprengeri

$15.00 per 1000; $1.50 per 100.

HARDY PHLOX

A very choice salmon pink one of the best and showiest varieties, rooted cuttings at 65c per 100; $5.00 per 1000

Cash with the order.
Honest samples sent free.

ALBERT M. HERR, Lancaster, Pa.

BARGAINS.

Geraniums, Pelargoniums, Roses, Moonvines, Cobeas, Petunias, Fuchsias, Shasta Daisies, Heliotrope, Cyclamen and 100 other things.

If you are a little late with planting **Roses,** get your order in to us at once. Stock is in fines shape for planting out.

Order **Cyclamen** in 2½ and 3 in. pots for immediate delivery; 4-in. and 5-in. for fall delivery.

Celestial Peppers, in 3-in. pots, ready to go out last of July. Ask for our **Fern List.**

We also have **Primula Obconica** in all kinds.

Write us your wants.

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

GERANIUMS.. .

To Close Out for Bench Room.

	Per 100
S. A. Nutt, Bruant, La Favorite, 4-in.....	$4.00
Mme. Salleroi, 2½ in.	1.00
Rose Geraniums, fine 4-in.....	4.00
English Ivy, 4½-in., fine stock.....	$12.50 per 100
Fuchsias, 2-in.....	1.50 per 100

N. C. MOORE & CO., Morton Grove, Ill.

NOTES.

Vacations will start next week, as will also the inquiry, when is the Florists' Club picnic? It will be settled at the next meeting of the club.

Phil Scott is again in Denver at the old stand; we wish him all success. BISON.

Now Ready. Now Ready.

Bargains in the **BEST**

New Midseason and Late 'Mums

Plenty of the grand new **Golden Eagle,** best yellow, and of **Poehlmann,** grandest midseason white, and of the prize-winning **Lynwood Hall,** new white of last year. These you cannot find the equal of in yellows and whites for main crop. 2½-in pots, $4.00 per 100, $35.00 per 1000; R. C., $3.00 per 100, $25.00 per 1000.

Also all late **Standards,** except Chadwicks, at $20.00 per 1000 for 2½ and $15 00 for R. C.

Any of the following surplus **BEDDING STOCK,** out of 2½'s and 3's, for $1.50 per 100 assorted, if wanted: French and African Marigolds, (Tagetes) Helianthus Cuc., Ice Pinks, German Ivies, Lobelias, Coleus asstd., yellow Alternantheras, Thunbergias, etc.

Cannas, 4-inch, 4c.

I. M. RAYNER, Greenport, N. Y.

Chrysanthemums.

To Close Out for Bench Room.

	Per 100		Per 100
Oct. Frost	$1 00	Col. Appleton	1 00
J. Nonin	1 00	Y. Bonnaffon	1 00
Touset	1 00	Intensity	1 00
W. Bonnaffon	1 00	M Dean	1 00

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00

N. C. MOORE & CO., Morton Grove, Ill.

'MUMS, From 2 and 3-inch Pots.

Touset, Dr Enguehard Pacific, Estelle, pink and white; yellow and white Jones, Duckham, Pompons Mrs. Beu and Diana. About 5000 in lot. Cheap to close them out.

2c each. Cash with order.

MRS. A. M. SCHAFER, 229 Balmoral Ave., **Chicago.**

CHRYSANTHEMUMS.

Assorted Singles and Pompons, our selection, $2-50 per 100; $20 per 1000.

ELMER D. SMITH & Co., Adrian, Mich.

What Shall I Fill My Empty Houses with Now?

WHAT WILL PAY THE BEST?

Is the cry all over. Use good judgment. I tell you what. ☞ Listen to me. You will never go wrong by devoting a reasonable space to **Araucaria Excelsa, Robusta Compacta** and **Excelsa Glauca, Kentias, Palms,** etc., while they are cheap. They will grow into money for you while you are asleep. Every florist knows **the Araucaria King, GODFREY ASCHMANN, of Philadelphia.** Look at what bargains he offers you in this advertisement:

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants **Araucaria Robusta Compacta, Glauca and Excelsa.** ☞ Florists, bear in mind there is no garden lawn or porch, etc., in the summer that is complete without the Araucarias: therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria. Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa, 3-4-5 year old 5-6-7 tiers, 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation, 40c-50c. Can meet all applications.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c to 30c

Kentia Belmoreana and **Forsteriana,** big plants only $1.25 $1 50 $2 00 each.

Adiantum Hybridum, large plants, fit for 7-8 in pots, 35c, 40c and 50c.

Areca Lutescens, 4-in., made up of three plants, 20c

Cocos Weddelliana, 3-in., 15c to 18c; 3½-in., 20c to 25c.

Ferns for Dishes, a good assortment, 2½-in., $3.00 per 100.

Asparagus Plumosus, 2½ in., $25.00 per 1000, $3.00 per 100; 3-in. $4.00 per 100.

Cosmos, four best early varieties, made up, three plants in a pot, $4 00 per 100.

Asters, Victoria, German, 5 best sorts, $3.00 per 100.

Please state if in or out of pots.

All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, W. 1012 Ontario St., **Philadelphia. Pa.**

Importer, Wholesale Grower and Shipper of Pot Plants.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

$1.50 per 100.

Geraniums, double Grant, Bruant, Viaud, etc. 2-in $1.50 per 100.
Heliotrope, Salvia, Coleus, Stevia, 2-in. $1.50 per 100. **Alternanthera,** $2 00 per 100
Paris Daisy, yellow, white **Swainsona,** alba, **Stevia,** green, **Asparagus,** Sprengeri, 2-in., 2c.
Cannas, 4 and 5-in., 5c.

Cash or C. O. D.

BYER BROS., Chambersburg, Pa.

FERNS.

Boston, 2½-in. fine	$ 3 50 per 100
Dracena, Ind. 4-in	15 00 per 100
" " 3-in	10 00 per 100
" " 2½-in	5 00 per 100
Geraniums, Nutt, 3-in	4 00 per 100
" 2¼-in, assort	2 00 per 100
Vincas, 4 and 5-in. ......$10 00 and	12 00 per 100

Asters, transplanted, all colors and varieties, $5 00 per 1000.

F. C. RIEBE, Florist, **Webster, Mass.**

Miscellaneous Plants

Alternantheras, 4 varieties, $2.50 per 100.
Bouvardias, pink, white, scarlet, 2-in. pots, $3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in pots $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea, $2.00 per doz.
Geraniums, best varieties from 3-in. pots, $4.00 per 100; 4-in. pots $6 00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground, $1.00 per doz.
Lobelia, Double blue 2½-in. pots $3 00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadri-color; Golden Feather, Cupheas, Snapdragon, Lantanas, Smilax, Asparagus Sprengeri.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,

11th & Westmoreland Sts., **PHILADELPHIA, PA.**

COLEUS In 10 Very Best Varieties.

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones, **$2 00 per 100; R.C., 75c per 100, 6.00 per 1000.**

ASPARAGUS SPRENGERI, extra strong, 2¼-in pots, $2 00 per 100; $18.00 per 1000.

WALTER W. COLES, Kokomo, Ind.

Neph. Whitmani

2¼-inch	$ 5.00 per 100
3½-inch	25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Washington.

ONLY FUNERAL WORK.

The extreme heat of the past week has caused society folk to depart rapidly, and in consequence business is practically at a standstill, excepting funeral work. July 5 is the day set for the floral automobile carnival, and handsome prizes are offered for the best decorated auto. The idea was born in the columns of the Washington Post, and there is only one objection that the Washington florists have and that is the shortage of flowers. If the carnival were held at the latter part of August or early September there would have been an abundance of wild flowers, aside from the numerous quantities of dahlias, hydrangeas and other outdoor stock, which cannot be secured now. Another bad feature is that this is about the hottest time of the summer and the flowers will in consequence suffer, which will be a great handicap to the beauty of the floral decorations.

The friends of W. R. Smith of the United States Botanic Gardens are anxious about his recovery. He has been seriously ill for some time. He has received the following letter from Scotland which explains itself:

"The Carnegie Dunfermline Trust,
"Dunfermline, January 24, 1908.

"W. R. Smith, Esq., Superintendent National Botanic Garden, Washington.

"Dear Sir: I understand that Dr. Ross has already written to you with reference to the delivery of a parcel of trees and shrubs, including specimens of the Crittenden peace oak, for the decoration of Pittenerieff park and glen. I have been directed by the trustees, at a meeting held yesterday, to convey to you an expression of their high appreciation of your kindness in showing so practical an interest in the decoration of a park gifted by Mr. Carnegie to his native town. They recognize that there is a special appropriateness in the inclusion of specimens of the Crittenden peace oak, and note your suggestion that they should occupy a prominent place and be planted with suitable ceremonial. The trees will be valued as a memorial of the efforts made by Mr. Carnegie in the interests of peace, and the trustees hope that when full grown they will be not merely memorials of past efforts in the cause of peace, but also witnesses of gratifying results.

"Again thanking you for your kind interest in the work of the trustees, I am, yours respectfully,

"WILLIAM GEORGE."

G. S.

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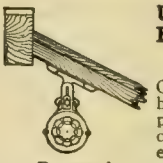

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Clematis paniculata, 3-in., $5 per 100. Large flowering vars., 2-yr., $3 per doz.; Jackmani, Henryi, Mme. Andre-Coccinea, $2 per doz. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Clematis. Bobbink & Atkins, Rutherford, N. J.

COLEUS.

Coleus, 10 best vars., $2 per 100; R. C., 75c per 100; $6 per 1,000. W. W. Coles. Kokomo, Ind.

CYCLAMEN.

Cyclamen, 3-in., $7 per 100; 4-in., $15; 5-in., $25. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Cyclamen persicum giganteum, 3-in., 6c and 7c. Alfred Hannah & Sons, Grand Rapids, Mich.

Cyclamen, 2½ and 3-in., immediate delivery; 4 and 5-in. for fall. Geo. A. Kuhl, Pekin, Ill.

Cyclamens. Vaughan's Seed Store, Chicago and New York.

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Dahlias, leading varieties. David Herbert & Sons, Atco, N. J.

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Dracæna indivisa, 3-in., $5 per 100; 4-in., $10 per 100. Geo. M. Emmans, Newton, N. J.

Dracæna indivisa, 4-in., $10 per 100. F. C. Riebe, Webster, Mass.

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Ferns, Boston, 6-in., 50c each. Piersoni, 6-in., 50c; 8-in., $1 each. Scottii, 2½-in., 5c. Elegantissima, 3-in., 10c. Boston, strong plants, 5-in., 30c each. Mosbæk Greenhouse Co., Onarga, Ill.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 doz. F. R. Pierson, Tarrytown-on-Hudson, N. Y.

Ferns for dishes, assorted, 2-in., $3.50 per 100; $30 per 1,000. Frank Oechslin, 2570 W. Adams St., Chicago.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Fern balls, 7-9-in., $2.50 per doz.; $18 per 100; 5-in., $1.75 per doz.; $12.50 per 100. Vaughan's Seed Store, Chicago and N. Y.

Ferns, Whitmani, 4-in., $10 per 100. Boston, 4-in., $10. John A. Doyle, Springfield, O.

Ferns. G. A. Kuhl, Pekin, Ill.

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Ficus elastica. 5¼ to 6-in., 25c and 30c. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Rubbers. P. J. Berckmans, Augusta, Ga.

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Fuchsias, 2-in., $1.50 per 100. N. C. Moore & Co., Morton Grove, Ill.

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Geraniums, collection of singles for winter blooming, $2 per 100; $18.50 per 1,000. Will send 1,000, 50 each of 20 good varieties, our selection, $18.50. Novelties, one each of 100 varieties, 1907 and 1908, 3-in., $10. R. Vincent, Jr. & Sons Co., White Marsh, Md.

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60,000 geraniums from 2½-in. pots, strong, clean and healthy; 20,000 B. Poitevine (salmon); 15,000 Nutt, 15,000 Henderson (scarlet); 5,000 Viaud (pink); 5,000 Buchner (white), $2 per 100; $18 per 1,000. The W. T. Buckley Co., Springfield, Ill.

Geraniums, S. A. Nutt, 4-in., thrifty stock in bloom, $6 per 100. Salleroi, 2½-in., $2.50 per 100, extra good. A few of the other varieties. Henry F. Piggott, 4248 Pearl Road, Cleveland, Ohio.

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Geraniums, best vars., 3-in., $4 per 100; 4-in., $6. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Geraniums, 4-in. in bloom, $4 per 100; 2½-in., $1.50. J. C. Schmidt, Bristol, Pa.

Geraniums, R. C., Ricard, Poitevine, Nutt, $1 per 100. A. M. Herr, Lancaster, Pa.

Geranium Mme. Salleroi, 3-in., 4c. Crabb & Hunter Floral Co., Grand Rapids, Mich.

Geranium, S. A. Nutt, 3-in., $4 per 100. F. C. Riebe, Webster, Mass.

3,000 S. A. Nutt geraniums, at $5 per 100. J. L. Dillon, Bloomsburg, Pa.

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Greens, fancy and dagger ferns, 60c per 1,000. Laurel roping, 5c per yd. Boquet green, bulk or roping, 7c per lb., 5c per yd. Sphagnum Moss, 60c per bbl. Thos. Collins, Box 241, Hinsdale, Mass.

Greens, dagger and fancy ferns, $2 per 1,000. H. M. Robinson & Co., 15 Province St., Boston.

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Greens, cut palmetto and cycas leaves galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

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Hardy perennials. A fine assortment. Send for descriptive list Mosbæk Greenhouse Co., Onarga, Ill.

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Heliotrope, 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Hydrangeas, specimens in tubs, $3 each; in half barrels, $5 and $7.50 each. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

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Ivy, English, 4-in., $1.50 per doz.; 5-in. $2 per doz. Geo. Wittbold Co., 1657 Buckingham Pl., Chicago.

English ivy, 2-in., R. C., 75c. J. H. Dann & Sons, Westfield, N. Y.

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Jerusalem cherries, 2 in a pot, $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

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Palms, Kentia Bel., 6-in., 22 to 24 ins., $1 each; $12 per doz.; 6-in., 24 to 26 ins., $1.25 each; $15 per doz.; 6-in., 26 to 28 ins., $1.50 each; $18 per doz.; 9-in. tub 42 to 48 ins., $5 each. Kentia Fors., 6-in., 28 to 30 ins., $1 each; $12 per doz.; 6-in., 30 to 32 ins., $1.25 each; $15 per doz.; 6-in., 34 to 36 ins., $1.50 each; $18 per doz. Made-up Fors., 9-in. tub, 42 to 48 ins., $4 each.; 12-in., 6 ft. high, $15 each; 12-in., 6 to 8 ft., $20 each. Joseph Heacock Co., Wyncote, Pa.

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Petunias, in bloom, 2¼-in., $2 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per $100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. Rhea Reid, 2¼-in., $5 per 100; $45 per 1,000. Bride, Maid, $5 per 100; $45 per 1,000. Potter Palmer, 2½-in., $5 per 100; $45 per 1,000. Kaiserin, 3½-in., $6.50 per 100; $55 per 1,000. Uncle John, 2½-in., $4 per 100; $35 per 1,000. Killarney, 2½-in., $5.50 per 100; 3½-in., $7.50. Perle, 2½-in., $5 per 100; $45 per 1,000. Richmond, 2½-in., $5 per 100; $45 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Roses, grafted, White Killarney, $30 per 100. My Maryland, $20 per 100. Rhea Reid, Mrs. Jardine, Killarney, Richmond, rose pots, $15 per 100; 3½-in., $18 per 100. Bride, Maid, Golden Gate, Kaiserin, rose pots, $10 per 100; 3½-in., $15. Own roots: Rhea Reid, Richmond, Killarney, Am. Beauty, 3-in., $9 per 100; 4-in., $12. Bride, Maid, Perle, 3-in., $7 per 100; 4-in., $9. J. L. Dillon, Bloomsburg, Pa.

Roses, strong, clean stock, grafted; Bride, Maid and Richmond, $12 per 100. Own roots; Bride, Maid, Ivory, Gates and Richmond, $6 per 100; all from 3½-in. pots. Also Dracæna indivisa, pot-grown, plants 5½-in., $25 per 100. P. R. Quinlan, Syracuse, N. Y.

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Roses, own root, Killarney, Richmond, Chatenay, Mrs. Potter Palmer, Bride, Bridesmaid, 3-in., $5 per 100; $40 per 1,000. Bride and Bridesmaid, 2½-in., $4 per 100; $35 per 1,000. S. J. Reuter & Son, Inc., Westerly, R. I.

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Roses, own root, Bride, Maid, Killarney, Richmond, Perle, Chatenay, 4-in., $8 per 100; $75 per 1,000. My Maryland, Mrs. Jardine, Rhea Reid, Queen Beatrice, 4-in., $12 per 100. Chas. H. Totty, Madison, N. J.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c Samples 25c. Joy Floral Co., Nashville, Tenn.

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2,000 Salvia splendens, at $4 per 100. J. L. Dillon, Bloomsburg, Pa.

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Smilax, 2-in., 1½c; myrtle leaved, 2-in., 2½c. J. L. Schiller, 929 Prouty Ave, Toledo, O.

Smilax, $1.50 per 100; $15 per 1,000. A. M. Herr, Lancaster, Pa.

Smilax, $1.25 per 100. Jos. H. Cunningham, Delaware, O.

Smilax, 2½-in., $2.50 per 100; $20 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Smilax, nice plants, fall sown, transplanted, 50c per 100; $4 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, 2-in., $2.25 per 100. F. C. Riebe, Webster, Mass.

Smilax, 3-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

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Spireas, J. Smits, Ltd., Naarden, Holland.

VEGETABLE PLANTS.

Vegetable plants, cabbage, fieldgrown, leading vars., $1 per 1,000; 10,000 and over, 85c. Celery: White Plume, Golden Self Blanching, Giant Pascal, $1 per 1,000. Eggplant: N. Y. improved and Black Beauty, $3 per 1,000. Lettuce: Big Boston, Boston Market, Tennis Ball, Grand Rapids, $1 per 1,000. Pepper: Ruby King, Bull Nose, Sweet Mountain, Neapolitan, $2 per 1,000; Chinese Giant and Cayenne, 50c per 100. Parsley, $1.25 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Vegetable plants: Cabbage, all kinds, $1 per 1,000; $7.50 per 10,000. Cauliflower, Early Snowball, and Dry Weather, $1.75 per 1,000; $15 per 10,000. Strong fieldgrown plants. Sluis Seed Store, 644 W. 63rd St., Chicago.

Vegetable plants, cabbage, $1 per 1,000; 5,000, $4. Cauliflower and peppers, $2.50 per 1,000. Tomatoes, $1.50 per 1,000. J. C. Schmidt, Bristol, Pa.

Cabbage plants, all kinds, 1,000 $1; 12,000, $10. Glick, Seedsman, Lancaster, Pa.

VERBENAS.

Lemon Verbenas, R. C., 75c per 100, prepaid. Chas. Frost, Kenilworth, N. J.

VINCAS.

Vinca var., 2½-in. and 4-in $2.50 and $8 per 100. J. S. Hennon & Son, Wampum, Pa.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

Vincas, 4-in., $10 per $100; 5-in., $15. F. C. Riebe, Webster, Mass.

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Nashville.

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The trade in this city is making a wry face at the new additional ad valorem tax imposed by the past legislature. The said legislature banished liquor from the state's borders, getting rid of the revenue, but not suppressing the strong drinks. Realizing that there was likely to be a deficit in the state's finances these wise solons cast about them for other fields to conquer (financially). The unfortunate florist, under the head of luxuries, was one of the first to fall under the eye of the aforesaid solons, and forthwith a new tax was levied and all florists will have to toe the mark.

BEDDING PLANT TRADE GOOD.

There has been such continuous rains that no outdoor stock has had a chance to make good. Sweetpeas have rotted in the ground, Asters are doing fairly well but have not attained to any great size in this latitude. After the rains let up there will come a blistering sun to scorch and burn and keep from perfection any summer blossom. Summer flowers are always poor here owing to the above conditions. Almost everything under glass has been torn out to make way for new plantings. Carnations have dwindled in size and are now nearly all removed from the benches. Gladioli seem to be doing well and there is still a small supply of fairly good roses. Notwithstanding the comparatively poor quality of flowers trade has been good. June weddings have served to create a fairly good demand for flowers and church decorations. Plant stock was good and those who handled it were very well satisfied with the season's business. The prices on bedding stock were somewhat lower but the volume of trade was larger than in former seasons and the aggregate sale in money greater. M. C. D.

NEW ORLEANS, LA.—Otto Werner has now no further interest in Fred Ziegler, Jr.'s business, financial or otherwise.

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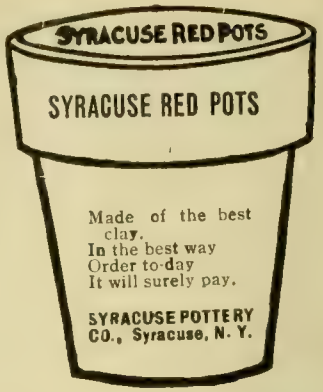

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Pittsburg.

A BAD WEEK.

A bad week from almost any point of view is about all that can be said of the past seven days. June weddings and commencement orders especially did not come up to expectations. We had thought the American Beauty market would be stronger than the preceding week as there were several large commencement exercises scheduled, but it was probably weaker if anything. Naturally carnations do not cut much figure any more; there are really very few fine ones on the market. In roses, Kaiserin is the only one that gives satisfaction. Bride and Bridesmaid are very poor, and while Killarney shows good form, the flowers blow open almost as soon as Richmond, which is now worthless because of that fault. There are still plenty of storage peonies offered and quantities of lilies, lily of the valley and sweet peas.

NOTES.

The writer is not an authority on contagious diseases, but feels certain that the matrimonial fever is one. It has broken out among the wholesalers to an alarming extent. The last victim is W. Q. Potter, member of the McCallum Co., who was married to Miss Alice Davies of Hazelwood June 24. The ceremony took place quietly at the Church of the Good Shepherd of the same place. The couple immediately left for the northern lakes for a month's stay. The Allegheny market is also being infected, Louis Beil of E. C. Ludwig's being married June 30 to Miss Lena Goettmann of Spring Garden.

Miss Forbes of Forbes & Donahey, Wheeling, celebrated her fiftieth anniversary June 29 by having an informal garden party at her home, to which all her friends were made welcome. The decorations were made up in Japanese style.

A move in the right direction is the announcement of The McCallum Co. and the Pittsburgh Cut Flower Co. that they will close during July and August at 5 p. m. excepting Saturday.

Theo. Beckert, Neville Island, is cutting some gilt edge sweet peas which are being handled by the Pittsburgh Cut Flower Co. and The McCallum Co.

The next meeting of the Florists and Gardeners' Club will be held July 6 at the McCallum Co., 937 Liberty avenue.

C. Cramer, president of the South View Floral Co., died June 24 after a protracted illness.

J. B. Murdoch & Co. have been handling some very nice American Beauty roses.

E. Ashcraft started the vacation season at the Pittsburgh Cut Flower Co. June 28.

A. W. Smith is around again after being laid up with typhoid for several weeks.

The Florists' Exchange is handling a nice lot of storage peonies. J.

☞ Has stood the test of over a Quarter of a Century.

THOMSON'S
Vine, Plant and Vegetable
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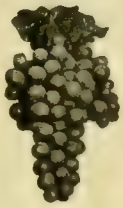
UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



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Freight paid on quantities. Write for our special offer to the American trade, pamphlets, agents' circulars, etc., to sole makers,

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Tweed Vineyard, Clovenfords, Scotland

Mention the American Florist when writing

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,
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Mention the American Florist when writing

Fresh Tobacco Stems,

$1.50 for 300 lbs.

W. C. BECKERT,
North Side, PITTSBURG, PA

"Natural Guano" PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food. Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,
32 Union Stock Yards, CHICAGO

Mention the American Florist when writing

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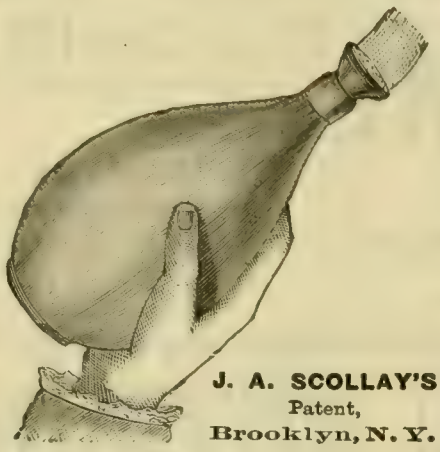
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in Glassware, Pottery, Decorative Greens and all Florists' Requisites.

The Early Ad. Catches the Coin.



J. A. SCOLLAY'S Patent, Brooklyn, N. Y.

Scollay's Plant Sprinklers

FOR CUT FLOWER TRADE. Also the

Scollay Putty Bulb

FOR GLAZING GREENHOUSES, Etc.

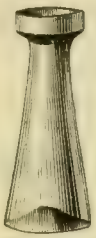
The Scollay Plant Sprinkler is in its 35th year. Thirty-five years of experience should count for something—we have given attention to quality in every respect—making of seams—selection of high-grade rubber. During these 35 years there have appeared more than 35 imitations, all the way from hand levers—tee ends—breakable tops down to Chinese and Boston Blowers—and, after all, the fact remains the same, that we are still the real thing in rubber sprinklers, etc. No one is so new or old in the cut flower trade that he can keep shop without Scollay's Rubber Plant Sprinklers. Every sprinkler guaranteed free from imperfection in manufacture.

For Sale by All Prominent Seedsmen.

JOHN A. SCOLLAY, 74-76 Myrtle Ave., **Brooklyn, N. Y.**

Hyacinth Glasses

BEST AND CHEAPEST IMPORTED.

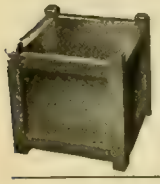


Prices on application.

Special discount on original cases of 25 doz. assorted colors.

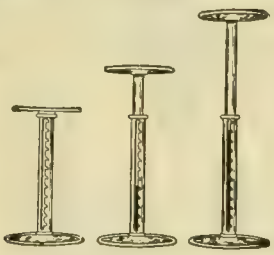
NICHOLAS WAPLER, 28 Warren St. NEW YORK.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.

WAGNER PARK CONSERVATORIES, Sidney, Ohio.



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

Sterling Iron Reservoir Vases

Chairs, Settees, Hitching Posts, Etc.

Complete Catalogue and Discounts Upon Request.

The Sterling Emery Wheel Mfg. Co., TIFFIN, OHIO, U. S. A.

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT

76-78 Wabash Ave., CHICAGO

Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO., FLUSHING, N. Y.

Albany, N. Y.

FLOWERS FOR COMMENCEMENTS.

At the last meeting of the board of education a delegation of representative florists of the city appeared before the board to protest against the recent ruling that no flowers be sent to the halls in which school commencements were scheduled to be held. The delegation pointed out that the ruling would work a great hardship to members of the trade in the city. It was pointed out that many orders had been booked with only the instructions to deliver the flowers at the commencement exercises, and that it was not possible in all cases to deliver them to the homes. The florists also said that if the board insisted upon enforcing its order many of the customers would countermand their orders. The board modified its position to the extent of not making the order effective until 1910.

A meeting of the various sub-committees of the flower show to be held in November was held on the evening of June 24. The chairmen of many of the committees reported progress. The subject of the show will be further discussed at the regular monthly meeting of the Florists' Club in July.

F. M. Briare and Geo. Russell, of Whittle Bros., spent last week at Williamstown, where they arranged the floral and other decorations in use during commencement week at Williams' college. This is the ninth consecutive year that the two have been to Williamstown.

Miss Winifred Goldring, daughter of President Frederick Goldring of the Florists' Club, is an honor graduate this year at Wellesley. Following the announcement of her rank in the class came a notice from the faculty of her appointment as instructor in geology in the college. R. D.

Greenhouse Glass

Don't fail to write us if in the market. Prices are extremely low. We guarantee our Glass in every respect.

GIVE US A TRIAL.

Baur Window Glass Co.
EATON, INDIANA.

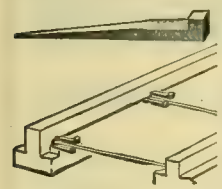
MASTICA

FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

MASTICA is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass, as occurs with putty. LASTS LONGER THAN PUTTY. Easy to apply.

THE BEST WAY
to collect an account is to place it with the
National Florists' Board of Trade
56 Pine Street, NEW YORK,

WHY? Because many debtors will pay the Board fearing otherwise a bad rating in our Credit List. Full information as to methods and rates given on application.



Siebert's Zinc Glazing Points.
Good for small or large glass, do not rust, easy to drive 5/8 and 7/8 inch Per lb 40c. 5-lbs. $1.85. 20-lbs. $7.00.
VAUGHAN'S SEED STORE
Chicago or New Yor

Lexington, Ky.

Lucien Le Clere is cutting thousands of excellent sweet peas and is supplying all the retailers here and several out of town. His canna and caladium beds at the Q. C. park, of which he has charge, are looking well.

Anderson & White, the lady florists on Georgetown street have had a good demand for bedding plants this spring. They are preparing to plant chrysanthemums.

The boys at the J. A. Keller estate are about ready to begin on the new carnation house which will be 30x200 feet. L.

KOKOMO, IND.—L. A. Coles, son of W. W. Coles, is just completing his new houses 35x300 feet of Lord & Burnham giant arch construction. American Beauty roses will be planted and an exclusive wholesale business done.

GENEVA, N. Y.—The Washington Street Nursery Co. has just been incorporated. The capital stock is $5,000, consisting of shares of $100 each. Of this amount the sum of $2,400 will be 5 per cent cumulative preferred stock. The directors of the company, and their holdings are as follows: Thomas J. Maney, 13 shares; Wm. H. Witt, 13 shares, and Margaret F. Witt, one share.

Attention!! Glass Buyers!!

GREENHOUSE GLASS.
You will save money if you obtain our prices before you buy.
Quality A. No. 1. Prompt shipments.

Hooker's Greenhouse White Paint
The most durable white paint for this purpose.
Half barrels, (25 gallons), per gal. $1.35. 5 gal. pails, per gal. $1.40

H. M. HOOKER COMPANY,
WHOLESALE GLASS AND PAINTS,
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Don't Buy the "Just as Good" Kind

Insist upon "the best" brand
Greenhouse Glass
Made by the
World's Largest Producers

Our production is constantly improving. Ask the dealer and insist upon having our brands; if he cannot supply your wants write direct to headquarters.

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WINDOW GLASS, PAINT, PUTTY, ETC.
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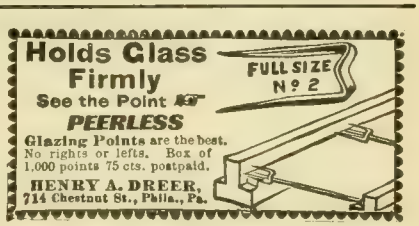
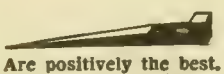
GREENHOUSE GLASS
in carload lots or less direct from factory.
NO HANDLING. NO BREAKAGE.

Lock the door before the horse is stolen, and insure your glass before it is broken.
For particulars concerning Hail Insurance, address
JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.





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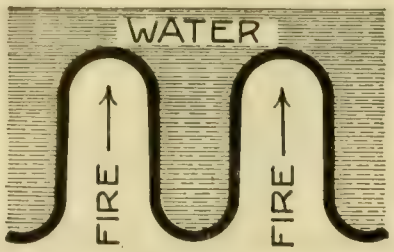
Never Rust Last forever.
Are positively the best. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes 5/8 and 7/8, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade
RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.

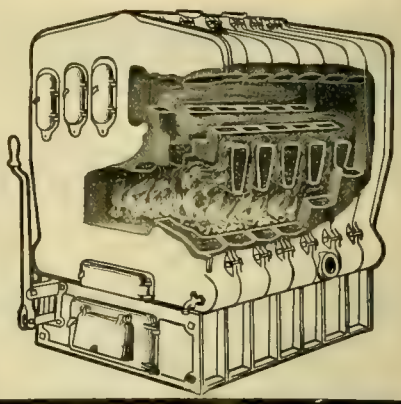


Section of the Burnham deep cross fire channel—the heat extractor.

The Burnham

you found had both deep fire channels and deep narrow water ways; you saw at a glance that a very large amount of heat would at once be taken up by the water.

It looked like a strong economy point to you.



Lord and Burnham Co. IRVINGTON, N. Y.
New York. Boston.
Philadelphia. Chicago.

San Francisco.

TRADE QUIET.

Business since Decoration day has fallen off considerably; with the exception of the school commencements and a few June weddings, there has been little doing. The most of the flower buying people are off to the summer resorts and the florists may as well take a vacation, and take a good rest, so as to be ready for the business for the coming season, which everybody confidently expects to be very good. All flowers seasonable for this time of year are very good and can be bought at very low prices. Roses are about the only flowers which are not very plentiful and in consequence bring fair prices. There are quite a few orchids, especially cattleyas, in the market but these always sell at the uniform price of 60 cents each, owing to a combination of orchid growers in this vicinity.

NOTES.

R. Schmidt, the well-known rose grower of Berkeley, is bringing in some very fine American Beauty roses for which he finds a ready sale. He has lately acquired the Blanding avenue nursery, Alameda, which he will run in connection with his place in Berkeley.

Quite a number of the Italian growers in this vicinity have been putting up new greenhouses to be used for the growing of adiantum and asparagus, for which there is always a great demand on the Pacific coast.

Messrs. Schmitz & Dobner of Stockton were in town a few days ago; they are reporting business as being very good this last season. They are about to construct another greenhouse this summer.

N. Peterson is off on a fishing trip to Lake Tahoe and is, according to latest reports, keeping the express company busy with shipments of fresh trout.

H. Plath, of this city, is reporting a great many orders for fern seedlings from flats, of which he has about 150,000, all in fine condition.

R. Groves has had to undergo an operation at the hospital, but is improving rapidly.

P.

KANKAKEE, ILL.—Faber Bros. are building new greenhouses on the north end of their present plant.

MARQUETTE, MICH.—T. M. Sorensen, proprietor of the Stafford greenhouses, has leased and opened a retail store.

LOUISVILLE, KY.—Mrs. M. D. Riemers leaves early this month for a western trip accompanied by friends. The Seattle exhibition will be visited as well as Vancouver, Portland, Ore., San Francisco, Los Angeles and Catalina island, returning via Salt Lake City.

The KROESHELL BOILERS

IS THE ONLY PERFECT

HOT WATER BOILER.

(NOT CAST IRON)

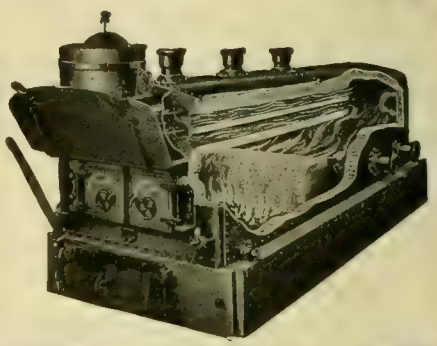
Has water in front, sides, top and a water back.

Made in 15 sizes, heating 6,000 to 50,000 square feet of glass to 60° at 15° below zero.

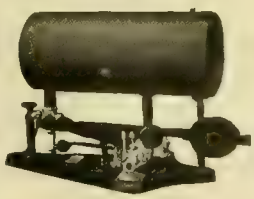
Prices and cata ogue on application.

KROESCHELL BROS. CO.

45 Erie Street, CHICAGO.



Cut Down Expenses



USE MOREHEAD

Return Steam Traps

KALAMAZOO, MICH., July 7, 1908.

MOREHEAD MFG. CO., Detroit, Mich.

Dear Sirs:—If your trap cost ten times what you ask for it it would be cheap when time, labor and cost of repairs are considered, in comparison with the steam pump I had installed before getting your trap.

I cannot praise it too highly and I recommend it to everybody who talks steam.

Yours truly, (Signed) F. W. MEYERS, Prop. Riverside Greenhouses.

Catalogue on request.

MOREHEAD MFG. CO., 1047 Grand River Avenue, Detroit, Mich.

Davenport, Ia.

The Tri-city Florists' Club held its annual strawberry social meeting June 24 at Floral Hill Gardens, the home of Theodore Ewoldt, with nearly every member present, all making the trip in automobiles. The evening subject for discussion was "Poinsettias, Their Propagation and Growing." The president appointed a committee of three to make all necessary arrangements for the annual picnic. A. Anderson of Moline, Henry Gaethje, Jr., and Henry Pauli of Davenport, compose the committee. The picnic is to be held between July 15 and 22. After other routine matters were disposed of the club adjourned to the dining room, where everything was in readiness for the annual contest, that of trying to see who could dispose of the most strawberries. A. Anderson, the last year's champion, was not in it this year, and after a lengthy discussion as to on whom the honors should fall the members all agreed that John Temple was duly entitled to the honor of being the champion strawberry eater for the year 1909. After an hour of story telling and a few cigars the club adjourned, thanking Mr. Ewoldt for the pleasant entertainment provided for them. T. E.

ST. LOUIS, MO.—Miss Lottie Schiess, proprietor of The Easton Florist, a retail depot, is doing a remarkably good business.

MONTICELLO, IND.—Cloyd Switzer, late of Frankfort, is building glass here and will go into the growing business quite extensively.

KOKOMO, IND.—W. W. Coles is now at Oden, Mich., where he says he will remain for two or three months catching some of the big fish after completing his summer cottage. Mrs. Coles will join him there this week.

Greenhouse Building.

St. Louis, Mo.—C. Meyer, one greenhouse 28x120; Philip Goebel, one house 20x100; Gus Hartmann, one house 17x 100 feet; Edwards, four houses 18x100 feet; W. M. Meyer, one house, 18x100 feet, and W. R. Greb, one house 18x 70 feet.

Nashville, Tenn.—Joe Browne, one greenhouse; Geny Bros., three rose houses, each 28x185 feet, and one propagating house.

Baltimore, Md.—Lehr Bros., two greenhouses 30x250 feet; B. G. Merritt, two greenhouses 32x125 feet.

Montreal, Que.—Deguire Bros., Cotes de Nieges, one greenhouse; Hall & Robinson, one greenhouse.

Kirkwood, Mo.—F. Ude, four greenhouses 16x100 feet each.

Islip, N. Y.—H. K. Knapp, one greenhouse 40x100 feet.

Patchogue, N. Y.—Geo. Terry, one greenhouse 30x70 feet.

Marshalltown, Ia.—Welter & Co., one greenhouse.

East Rochester, N. H.—E. A. Corson, one greenhouse.

Monticello, Ind.—C. Switzer, one greenhouse.

A WIRELESS MESSAGE

IF YOU WANT BIG RESULTS

BUY FROM PHIL FOLEY WHO RUNS THE FACTORY IN THE CITY OF CHICAGO. YOU WILL WEAR A SMILE CAUSED BY PROFITS FROM CROPS GROWN IN HOUSES

WESTERN, ARTESIAN AND CAMPBELL ARCS 25" TO 26" STS

CHICAGO

BUY YOUR BUILDING MATERIAL, WOOD, IRON, GLASS FROM FOLEY

Mention the American Florist when writing

WILKS'

Hot Water Boilers

ARE THE MOST ECONOMICAL

Boiler for Greenhouses

No Night Fireman Required with our

Self-Feeding Hot Water Boilers.

Send for Catalog and Prices.

S. WILKS MFG. CO.,

3525 Shields Ave. CHICAGO

THE ART OF Floral..... Arrangement

The first special newspaper in the world for floral arrangement.

250 ILLUSTRATIONS ANNUALLY

Specimen number free.
Subscription, $2.40 yearly.

BINDEKUNST-VERLAG,

J. Olbertz, ERFURT, GERMANY.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity o your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted; ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

Greenhouse Boilers

A complete line of locomotive, fire box boilers. Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.; some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters.

Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special thread and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4 in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings; we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy; greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets CHICAGO.

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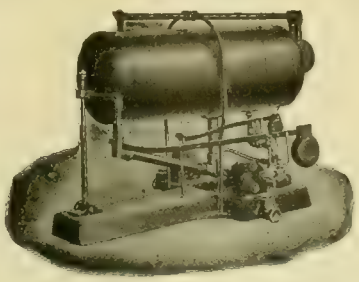

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SEASON OVER.

The closing exercises of schools, June weddings and a few other social events brought the season to an end and now we can look forward to the dull season which lasts three months. About the middle of August some of the down-town theaters will open up their fall season and not till then will there be anything stirring. Funeral work will be about the only outlet for flowers. Carnations have advanced in price and anything fancy is bringing two cents. Quite a few good American Beauty roses are in and are offered very cheap. Sweet peas have been selling fairly well and are being used as much as possible in design work and in bunches. Asters are now coming in, but no fancy varieties. Sweet peas are now getting scarce and with the continuance of hot weather will soon be a thing of the past. Ferns are increasing in quantity and have a downward tendency.

NOTES.

Nick Himmer and family of Meramac Highlands is going to Europe. Nick is a hard worker, disposes of his cut himself, daily going from florist to florist in the west end. Nick must have certainly done a profitable business.

The flower show to be given this fall by the Horticultural Society will be held at the Coliseum. This show promises to be the best and largest ever given here.

Miss Meyers, bookkeeper at Geo. Angermueller's is stopping at the Park hotel in the county for the summer. She is a frequent visitor to Delmar garden.

Julius Schaffer has returned from a visit to Germany to his father and is now located at Adolph Brix'. He expects to start up a place this fall.

Fred Bruening has a fine stock of Whitmani and Boston ferns; he is cutting quite a few carnations from his farm at Columbia, Ill.

John Seketer has given up his shop for the summer. He sold all his stock of made up wire work to Wm. Smith Wholesale Floral Co.

The ball game at the picnic will probably be played between the teams of the Bentzen Floral Co. and Young & Sons.

C. A. Kuehn is receiving some of the best carnations seen in this market at this season.

H. C. Weber, Theodore Miller and their wives and daughters have left for Europe.

H. G. Berning is handling some of the best sweet peas coming into this market.

Ostertag Bros. were quite busy during the past week with June weddings.

W. F.

Value of Forests for Water.

Experiments will be conducted in California by the forest service to determine the exact relation of forests to stream flow, a question of vital importance to southern California, where the supply of irrigation water depends on the reserve in the mountains. This question arose last year when forest fires were raging, and some persons asserted that forest growth had little to do with holding rainfall in the ground.

Forest officers, who have had an opportunity to observe results, asserted that where mountains and hills are barren of tree growth, the rainfall not only runs to waste, but resulting floods greatly damage fields on which they carry debris. These observations have been general in character heretofore, but now the forest service will determine to a certainty just what the tree growth does in preventing floods and retaining rainfall.

The experiments will extend over a number of years. Two watersheds will be chosen in the different forests of California, preferably having an area of not more than 200 acres, one of them to be covered with dense forest and the other to be devoid of forest growth or only sparsely wooded. Rugged topography and rocky or clayey soils will be sought, and the areas will be as near together as possible, in no case more than eight miles apart.

Near the mouth of each stream which drains each watershed will be built small dams, with sluices, at which the stream flow will be measured by self-registering instruments. On each watershed will be established ordinary rain gauges at the lowest, intermediate and highest points, and one automatic rain gauge. The springs within each watershed will be located and numbered. Within the lower course of the streams there will be constructed wooden sluice boxes for catching and determining the amount of sediment carried by them. A number of borings will be made at various points within the watersheds to determine the fluctuations of the ground water and evaporation measurements will be taken. An effort will be made in conducting these experiments to account for every drop of water that falls on the watersheds so that definite data for comparison should be obtained within a comparatively short time.—Los Angeles Express.

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OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20 1909.

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Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash. and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

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THE FANCY LEAVED CALADIUMS.

I.—BY ARNO NEHRLING.

Introduction.

In taking up the study of the species and varieties of caladium, the writer found great confusion in the nomenclature. Considering that there are about 2,500 named varieties cultivated this does not seem at all strange. But in making a closer study, we find that, even in our old varieties, there is a great deal of confusion. Although the culture and development will be taken up in this paper the writer has worked with the object of eliminating this confusion. This has been made possible principally through the extensive library of the Missouri Botanical Garden, further through the extensive collections of the caladium specialists, Adolph Lietze, Rio de Janeiro, Klissing & Son, Barth, Germany, Adolph Jaenicke, Floral Park, N.Y., Theo. L. Mead, Oviedo, Fla., and Henry Nehrling, Gotha, Fla., the latter having in his own collection over 1,500 named varieties collected from all parts of the world.

History.

The order araceæ, to which these plants belong, is essentially a distinct class, the largely developed bract enclosing the organs of reproduction forming a feature that separates them from all other forms of vegetation. They are principally natives of hotter climates, though there are some which inhabit the more temperate regions. According to Index Kewensis the genus comprises about 41 species, 33 of these being described as natives of South America, two of the Philippine islands, two of the East India islands, and four with the habitat unknown.

Caladium bicolor, or Arum bicolor as it was first called, was not known by Linnæus. It was introduced in 1789 and it is from this species that most of our present varieties originated. Ventenat, with this species as a basis, established the genus caladium in the year 1800. He reports that it was discovered by D. Commerson in 1767 in the neighborhood of Rio de Janeiro. Kunth in 1841 described four more species and Regel in 1857 described two species or varieties. But the real caladium epoch began in 1857. About December in that year, Baraquin and Petit brought a collection of tubers to Europe, which they had collected at Para on the Amazon river. Some of these reached the hands of that enthusiastic plant grower Antoine Chantin, of Paris. In this collection were C. Chantini, C. Baraquini, C. Verschaffelti and the beautiful little C. Humboldti (C. argyrites). Later he added to this collection C. Neumanni, C. argyrospilum, C. Brongniarti, C. Houlleti, C. hastatum and C. picturatum. These species (according to Index Kewensis not all true species) were described by Lemaire and illustrated in Illustration Horticole and Flore des Serres (1856-1865).

These beautiful tropical foliage plants created a sensation in France and Belgium, and were admired by all plant lovers. Chantin attempted to distribute them, and for this reason he took a collection to London the next spring (April 1858) and exhibited them at St. James' hall. Here they were also showered with exclamations of wonder and delight. Dr. Lindley described them in the Gardeners' Chronicle (1858—page 314-317) but the descriptions were rather short. The next year they were again described in this publication, (1859—page 602) after a certain writer had expressed himself doubtful in regard to Chantin's honesty. As already stated some of the species mentioned were not considered true, and it was in regard to these things that Chantin's honesty became questioned.

Louis van Houtte (page 751) upheld Chantin in regard to the new species and varieties. C. Baraquini, which was at that time classed as synonymous with C. bicolor by some authors, was described by him as being entirely different, hence a true species, the difference being apparent in the color of the foliage, veining and color of the stem. He also describes C. splendens as being vastly different from C. bicolor. In his further descriptions he mentions C. thripedestrum as being identical with C. marmoratum. C. Belleymei, C.

Troubetzkoyi and C. Perrieri are three others described by him as beautiful and distinct species. He also describes all the species and varieties found in cultivation at that time. The following were included in this list: C. argyrites, C. hastatum, C. picturatum, C. bicolor, C. Troubetzkoyi, C. argyrospilum, C. splendens, C. marmoratum, C. Baraquini, C. pœcile, C. Chantini, C. discolor, C. Houlleti, C. Belleymei, C. Perrieri, C. Neumanni C. Brongniarti, C. Verschaffelti and C. pictum. Within the next few years the following were added to this collection: C. albo-maculatum, C. Leopoldi, C. Sieboldi, C. pellucidum, C. Devosianum (C. Wallisii), C. hæmatostigmatum, C. regale, C. mirabile, C. Duchartrei, C. Wighti and C. Curwadli. Here it may be of interest to note that most of these varieties are still found in cultivation. All just mentioned belong to the C. bicolor group, and are considered varieties by Dr. Engler.

WALLIS' REPORTS.

About this time Gustav Wallis, the celebrated plant collector, reported that the forests along the lower Amazon are covered for miles and miles with these beautiful leaved plants during the rainy season. From this it seems quite evident that not only species, but also varieties, were collected and introduced. Bates, the naturalist, also reports a number which he saw in the Para regions. Among these were C. picturatum, a species with blue green foliage and dark red midrib.

It has never been known whether Chantin, the first known cultivator of this genus, attempted hybridization. But Louis van Houtte obtained a number of hybrids through cross-fertilization, many of which are still in cultivation. Among these were: C. Bohemicum, C. Jules Putzeys, C. Leopold II, C. Lindleyanum, C. Marchandi, C. Skopetzianum, C. Rodeckii, C. Reichenbachianum, C. Petschkaui, C. Lindleyanum, C. Ortgiesii, C. Thelemanni, C. Fenzlianum and C. Endlicherianum. Eight of these varieties are in Henry Nehrling's collection and are as pretty as some of our recent productions.

In the year 1860 Alfred Bleu of Paris, who was an enthusiastic plant lover, was struck with the idea of crossing some of the original species. He did not intend to make a business of this work, but the events of the war of 1870-1871 forced him to take up the culture for profit. All who are acquainted with the varieties of this beautiful genus know that he was most successful. In 1867 he exhibited a collection at the world's fair in Paris and through this collection he became universally known. Triomphe de l'Exposition, which is still considered one of the most exquisite varieties, was in this collection. Most of his productions are classed under the bicolor group. Up to the year 1902 Mr. Bleu raised hundreds of good varieties. Some of the best among these are: Gaspard Crayer, Le Hrubyanum, Candidum, Faust, L'Automne, Mme. Fritz Koechlin, Mme. Marjolin Scheffer, Mons. J. Linden, Onslow, Mme. de Vigier, Mr. d'Halloy, Rubens, Alfred Mame, Annibal, Clio, Auber, Beethoven, Diana, Edouard Moreau, Eucharis, Euterpe, Halevy, Gretry, Mme. Groult, Felicien David, L'Insolite, Gaze de Paris and Mme. Alfred Bleu Major. A few with exceptional merit and beauty, but rather difficult to propagate, are: C. Ibis Rose, Mrs. Harry Veitch, Michel Buchner, LaLorraine, Ville de Hambourg, Cardinale, B. S. Williams, Charlemagne, Maria Mitjina, Oriflamme, John Laing, Alice Flemming, Puvis de Chavannes, Souv. de Louis van Houtte.

BAUSE'S VARIETIES.

A few years later (1873) C. F. Bause, a German gardener at the Royal Horticultural Society of England's gardens at Chiswick, developed a number of beautiful varieties. Among these were a few yellow varieties, which were lost and up to the present time no one has been able to duplicate them. Some of his best varieties are: Golden Queen, Prince of Wales, Princess of Wales, Princess Royal and Princess Teck. In the early nineties Mr. Bause resumed his hybridization experiments. From 1895 to 1900 he distributed many beautiful and distinct hybrids through James Veitch & Sons of Chelsea, Eng. F. W. Moore, probably one of the finest red varieties ever produced, was among this assortment. Some of the others which are still found in almost every collection are: Ladas, Lord Derby, Silver Cloud, Sir William Broadbent, Sir Henry Irving, Lady Mosley, Mrs. Joicy, Mrs. Luther, Mrs. Bause, Mrs. Iceton, Pantia Ralli and Ellen Terry. Exquisite colors and medium growth are two characteristics of these English varieties, but their culture is rather difficult.

Arno H. Nehrling.

Another German gardener, Jacob Weiss, who was in the employ of the Duke of Pamela, Portugal, exhibited a collection of varieties which were entirely different from anything thus far mentioned. This was in 1879, and the exhibition was held at Oporto. These varieties represented a new type and were hybrids of C. erythræum. The leaves of this type are partly cordate, hastate and sagittate, and without appendages. In the Garden for 1879, page 65, eight of the varieties belonging to this type or group are illustrated and described.

Adolph Lietze, a highly educated German who settled at Petropolis near Rio de Janeiro in the year 1857, is the greatest of all the caladium hybridizers. In 1875 he began his cross fertilization experiments, and here it may be well to say that his productions excel anything elsewhere produced. Through his beautiful varieties, which soon spread all over the world, he became known as the caladium king. He has grown hundreds of new varieties, one excelling the other in beauty. His experiments were conducted on a scientific basis and every variety can be readily traced to its parentage. The catalogues which he published from time to time are extremely interesting. In these he divides his productions into 10 classes (from A to K), which is a very practical and systematic method. In 1893 about 100 of Mr. Lietze's varieties were on exhibition at the World's Columbian exposition in Chicago, and created a sensation. In recent years he has produced hundreds of new varieties, most of them outrivaling anything heretofore produced. Mr. Lietze also tried to use the pollen of several species of alocasia in his cross-fertilization experiments, but he only succeeded in crossing several caladiums with Alocasia plumbea. Caladium Bendego and C. Juripari-tata are two varieties which disclose the parentage of alocasia.

Mr. Lietze died in December, 1907. Among his older varieties the following might be mentioned as having exceptional merit: Arassuahy, Acary Bilontra, Hortulania, Adamastor, Mrs. John Laing, Dona Carmen de Macedo, Barao de Mamore, Dr. Augusto de Castro, Putomayo, Aymore, Freze de Maio, Mossoro, Diamantina, Periquito, Guararpema, Purus, Bendego, Roncodar, Timbyra, Imperatriz Thereza, Don Pedro de Alcantara, Benjamin Constant, Ouro Fino and many others. His newer productions are far superior in color to any of the varieties just mentioned. The following is a list of 25 of his finest new varieties: Anajutuba, Melgaco, Itapagibe, Tibirica, Camaragibe, Manricio de Nassau, Blumenau, Campos Salles, Bleu, Olivenca, Itaituba, Apehu, Mimosa, Ubatuba, Alvaro de Carvalho, Feliciano Coelho, Brusque, Amazonas, Aguas Claras, Faceiro, Maranhao, Angelica, Joao Fernandes Vieira, Mathias de Albuquerque, Votuverava. C. Bleu, Campos Salles and Maranhao may be mentioned as being the most beautiful; the last two mentioned are transparent and resemble cut glassware. Some of his beautiful red varieties will be described later on. Since the publication of his last catalogue in 1902 he produced several hundred varieties which he claimed surpass his older productions in color and beauty. All the varieties just mentioned are in Henry Nehrling's collection, where the writer studied them in the fall of 1907.

Richard Hoffmann of Streatham, Eng., is at present the greatest hybridizer in Europe. His first productions were distributed by James Klissing & Son in 1899. Since then he has added quite a number to the treasures we already possessed. He obtained excellent results by crossing Lietze's best Brazilian kinds with Messrs. Bleu and Bause's productions. The following are varieties for which Mr. Hoffmann has received awards of merit at English and international exhibitions: Valse Bleu, Frau Director Sie-

TYPES OF CALADIUMS.

C. Chantini (Bicolor Type). C. Humboldti (Humboldti Type). C. Belleymei (Picturatum Type).

bert, Admiral Togo, Dorothy Peto, Sanglant, Thos. Tomlinson, Firefly and Blue Danube.

In recent years some beautiful varieties have been produced in this country. Adolph Jaenicke, head gardener to John Lewis Childs, has produced some beautiful varieties. Mr. Jaenicke was formerly with Haage & Schmidt, Erfurt, Germany. Caladium Ivory, the only pure white variety thus far put on the market, was grown by him. Others are: White Flag, a creamy white variety; Torchlight, Emerald, Fascination and Adolph Jaenicke. The well known orchid hybridizer, Theo. L. Mead, of Lake Charm, Fla., must also be mentioned as one who has done considerable in developing new varieties in this country. He centered his efforts on the growing of certain types and in this he was highly successful. A great many of his varieties belong to the C. Albanense type or group, which will be taken up in detail a little later.

During the last few years Henry Nehrling of Gotha, Fla., has had excellent success in producing a number of exquisite new varieties. These varieties will be placed on the market as soon as sufficient stock has been grown. About five years ago Mr. Nehrling began his experiments with 40 or 50 of the older varieties, and at the present time he has one of the largest collections in the world. An idea of how he grows them will be given under the heading of "Culture in Florida."

An unknown hybridizer has produced a number of varieties, which, although they are pretty, cannot be compared with any of Lietze's sorts. The best among these are: Lælia Duplessus, Le Reve, Ile de la Reunion, Reine de Suede, Mme. Marie de Flacourt and Prince Sansparset. Most of these are of a rather weak constitution. It has since been learned that the above were the best productions of Alfred Bleu and were offered to the trade in 1902. The newer varieties, or in other words the best and most beautiful, do not multiply as rapidly as the older sorts. Just recently John Peed & Son, West Norwood, Eng., placed a very pretty assortment on the market. Among these are: Wm. Roupell, H. J. Chapman, John Peed, Henry Dickson and W. E. Gladstone. It would be a great help to caladium fanciers if some one would undertake to publish a complete record of all the varieties raised by the older hybridizers, like van Houtte and Bleu.

Bronx Park, New York.

The flower gardens and, in fact, the whole of the great reservation at Bronx park, has been in its finest condition the past week, the frequent showers and intermittent sunshine having put new life into the shrubbery and flowering plants. The outdoor beds never looked better, the lawns are a deep rich green and the ample foliage on the trees is at its best. In the large conservatory visitors have been surprised to see a large palm pushing through the glass roof. It was planted under the dome of the great house, where it had ample head room at the time, but this it has outgrown.

Many improvements have been made in the development of the grounds. Four new greenhouses have recently been completed, forming part of what is known as Public Conservatory range No. 2, in the eastern part of the park. This has entailed considerable alterations to driveways, approaches and paths, and much of the work is already completed. These greenhouses were opened to the public last week; they contain collections of tropical ferns, moved from houses 10 and 11, tree-ferns and dwarfer ferns filling two of the houses, and the small ferns a third one. The collections are now much better displayed than in their former quarters, where they were crowded and massed together; their delicate and graceful foliage makes a beautiful display, and a large number of species, from all parts of the tropics, both of the new world and the old, have been brought together, now forming a most complete and extensive collection.

Many of the smaller plants exhibited have been raised in the propagating houses of the garden from spores taken from herbarium specimens obtained during collecting expeditions in the West Indies and Central America. A number of the tree-ferns were also obtained during these trips. Many plants have been presented and secured through exchanges, with other institutions; none has been purchased. Additional tree ferns are now being collected in the mountains of Jamaica. In order to show the biological relationship between ferns and cycads (sago-palms), the fourth house of this new range has been mainly given to the latter, moved partly from the great palm house and partly from the propa-

gating houses. The collection of cycads is not yet so representative as that of the ferns, but it contains many rare species, among them an elegant plant of the new Dioon purpusi, just described by Dr. J. N. Rose of the United States National Museum, obtained in southern Mexico several years ago. The plant trunk, obtained in September, 1906, remained dormant in the propagating houses until last winter, when it put forth a splendid circle of leaves.

ORCHID NOTES.

GROW Cattleya gigas, C. aurea, C. Dowiana and C. superba in the lightest and warmest position in the house, if there is any choice in the matter.

WATER Odontoglossum citrosmum very liberally now to swell up the old bulbs that were shrivelled while waiting for the flower spikes to show and assist the young growth.

CATTLEYA LOBATA must not be confused with C. labiata, or great disappointment is due when the plants flower, if ever they do. The former is an orchid of many names: Cattleya lobata, C. Boothiana, Lælia Boothiana, etc., and one of the most shy flowering in existence.

Cattleya Mossiae Mariana.

The fine variety of Cattleya Mossiæ depicted in the accompanying illustration appeared in the collection of Dr. R. Schiffmann, St. Paul, Minn., some years ago. The flowers were eight inches across, the sepals three and a half inches long, the lip four inches long and two inches broad. The outer segments of this variety are white, the lip white in ground, the throat purple overlaid with light radiating lines or veins. C. Mossiæ is probably the most variable of the labiata cattleyas and certainly one of the most useful, either for cutting or for a display on the plants. White varieties of it are not common, especially the true albinos with no purple on the lips, but only a stain of yellow. All the forms are easily grown and flower most profusely, many growths or leads producing two sets of flowers in one year.

Summer Treatment of Orchids.

Growers of a general collection of orchids have to make the most of the summer weather in order to get good growth into the plants, to properly consolidate them, or ripen as it is usually termed, in order that they flower freely the coming season. But the ripening process is only one part of the treatment. There must be a good growth in the plants and they must be properly developed first and this can only be obtained by keeping up a properly moist and airy atmosphere all through the season. Many orchid growers are afraid to ventilate their houses freely at any time of the year. They keep them close and hot and the plants suffer for want of air. It is much better to throw the house wide open at this season and dampen all dry places such as benches, floors and walls continuously. Especially is this the case with cattleyas, oncidiums, dendrobiums and other tropical species which, in order to flower freely, must have their growth properly consolidated by light and air after it is developed.

ORCHIDS OUTDOORS.

There are many of the Mexican lælias and other orchids that do not flower freely unless they get at least a few weeks in the open air in summer. Especially is this true of L. majalis, which some growers say will not flower without this treatment, and all the popular kinds, such as L. anceps, L. autumnalis and L. albida, are much better for this treatment. Odontoglossum grande always finishes up a much finer growth and flowers more freely after a few weeks in the open air in summer. But open air treatment does not mean sudden exposure to the hot sun of July and August. This would be very detrimental to the foliage and, through this, to the health of the plant. From a very early experience in our orchid growing career we learned this mistake in connection with a valuable collection of anguloas. These were fine plants in the very best of health, with magnificent foliage and bulbs. They were taken somewhat suddenly from the house in which they had been grown to the open air and set in the full sun. In consequence, every leaf was burnt and although the plants flowered freely they were so weakened by the loss of foliage that they made a much poorer growth for several years and the specimens were much injured in appearance.

The ideal place for orchids outdoors in summer is in the shade of a tree, but where plenty of air can reach them from all sides. Frequent spraying during hot weather is desirable and care must be taken to water the roots regularly. We never had such fine plants of oncidiums of the macranthum section as when the plants were treated this way.

It is rather early yet to speak of ripening of deciduous dendrobiums, but the time will soon be here when these will be greatly benefited by a few weeks in the open air. In fact, if properly looked after by shading and spraying regularly there is no reason why such species as D. nobile and D. Wardianum may not be grown outside from the end of June to the middle of August or even later provided the weather keeps mild. But in any case all the deciduous kinds such as D. Wardianum and D. crassinode should be placed outside after the last leaf has appeared, this treatment ripening them and preparing them for their winter's rest. Other orchids such as Cœlogyne cristata, many of the miltonias and in short most of the pseudobulbous section are benefited by this treatment.

COOL ORCHIDS.

Cool orchids are not as much grown as they could be and Odontoglossums masdevallias and others may be kept growing and healthy by heavy shading and atmospheric moisture during the hot months. A constant moist atmosphere, shade at all times and ample supplies of air are what they need. If the house, on entering from the external air seems pleasantly cool all will be well, and this is much easier to manage than some growers would have us believe. It is no use to expect to keep the temperature down to any set figure. For instance, when the outside temperature is in the nineties in the shade, we cannot expect to keep a house of orchids at 60°. The point is to so manipulate the atmosphere, that there is never a harsh dry feeling in the air, and keep the sun from damaging the tender foliage. Overwatering at the root in summer is also a great injury to these plants; they are not growing very rapidly, their growing season coming later, and the sooner growers awake to this fact the better it will be for the plants under their control. No repotting or other interference with the roots should be done at this time of the year. Late August and September, when the plants begin to make new roots, is the proper time for this operation.

CATTLEYA MOSSIÆ MARIANA.

CATTLEYAS.

Referring again to the cattleyas, C. gigas and C. Gaskelliana will be the principal varieties of the labiata section now in flower. These flower upon the new growth and the former usually commences to grow again at once. This makes the present a good time for repotting and after repotting, the plants should be well looked after so that the new growth made will have ample time to develop again before winter. Very

often this growth will flower, but whether it does or not the treatment is the same. C. Mossiæ should be encouraged in every way to finish up a good growth before autumn. C. Trianæ, C. Mendelii and in fact the majority of this section are in full growth and must be encouraged in every way. Referring to overhead watering, a good wash with a syringe or hose is of great benefit to all these cattleyas, but this must not be done in damp or dull weather. C. labiata is rapidly approaching the flowering season and the double sheaths can be seen in the young growths. When spraying see that the water is kept away from these plants, but keep plenty of moisture about them in the atmosphere. C. aurea and C. superba need far more heat than any other cattleyas in cultivation and the warmest and lightest part of the house should be chosen for them.

COMMERCIAL.

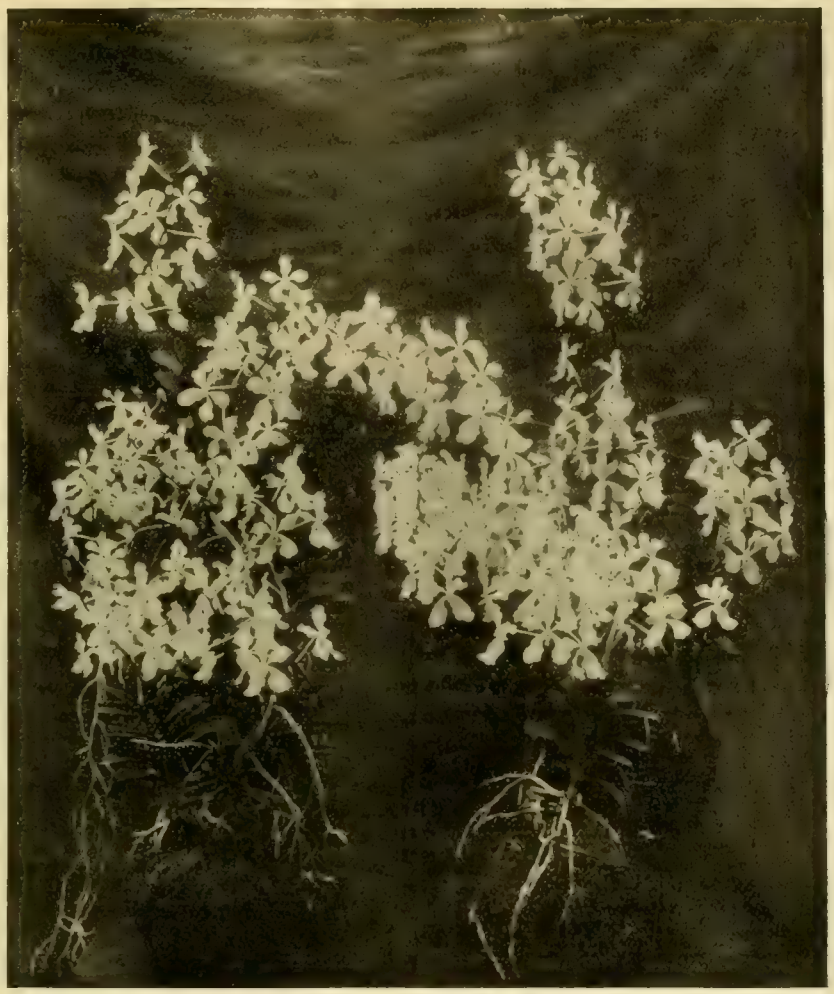
Vanda Coerulea.

Blue is a rare color in orchids and Vanda cœrulea is one of the best instances of this color. It is a fine species for cutting and one of the most popular of all for this purpose. There is considerable difference in the color of the varieties; some of them are very pale, almost white, while others are the true cerulean blue. Unfortunately the finest varieties are often those of the weakest growth while the poorer varieties will grow like weeds. V. cœrulea is an inhabitant of India, where it grows well up on the mountains and consequently in a low temperature. This suggests the kind of treatment required by it under cultivation. The house that reeks with moisture and is kept close at all times is the worst possible place for these air loving kinds. What they need is plenty of air around them at all times with shade only from the hottest sun and ample moisture in the atmosphere.

Unlike most vandas, that seem to delight in getting away from the center with their roots, Vanda cœrulea seems to delight in growing with its roots overrunning each other in a close mass and consequently very small baskets or pots are needed to grow it in. Nothing but clean sphagnum moss and charcoal or potsherds is needed for compost. The use of these small receptacles makes very liberal watering necessary at all times, but especially during summer, when the plants are growing freely. Like others of the single stemmed section this vanda has no positive period of rest and must not be dried off. While the growth is quiet, much less moisture is needed than in summer, when it is growing freely, but to withdraw the moisture altogether is wrong at any stage. COMMERCIAL.

MOUNT CLEMENS, MICH.—James Taylor, wholesale grower of carnations and violets for the Detroit market, opened a retail store in the Bath City July 1 and will hereafter dispose of most of his stock at retail.

BABYLON, N. Y.—The Howell Carnation Co. has been incorporated with the secretary of state, to deal in flower, etc., with a capital of $10,000. The directors are Frank A. Howell, Jamaica; Alex. D. Donnelly and Mary A. Verney of Brooklyn.



VANDA CŒRULEA.

WITH THE GROWERS

Lowe & Shawyer, Uxbridge, Eng.

A FAMOUS ENGLISH NURSERY.

In the western part of Middlesex, England, near the old town of Uxbridge, is a famous market nursery that is well worth a visit from any American growers who happen to be in England this season. [All greenhouse establishments are "nurseries" in England.—ED.] For many years the nursery has been in the hands of Joseph Lowe but it is now known under the title of Lowe & Shawyer, two big businesses having been united. The nursery near Uxbridge is about 70 acres in extent, but other portions in the neighborhood also run into several acres. One of the chief specialties is the culture of roses for market. Although thousands upon thousands of plants are raised every year, they are not for sale. The business consists of the production of the finest blossoms for Covent Garden and elsewhere early in the season when prices are ruling high.

An enormous amount of glass of course is necessary and the varieties grown are those best suited for market work, such as Chatenay, Catherine Mermet, Mrs. John Laing, Ulrich Brunner, Liberty, Frau Karl Druschki, Caroline Testout, Killarney and a few others, including the now famous Joseph Lowe, of which there are some thousands of plants grown. This variety originated in the nursery and is named after the senior partner. It has proved itself to be such a good market variety that it is being grown more and more each year and will probably displace some of the other varieties in time. At one time the rose plants were planted out in deep beds of good rich loam and were left for a few years before they were rooted up and replaced with younger stock. This system of planting has now been discarded and shallow beds 12 to 15 inches deep are made instead in the form of a bench raised from the ground a few inches. In this way sufficient soil is obtained for the roots and the labor of moving out old soil and replacing with fresh has been considerably lightened in consequence.

Apart from the greenhouses proper, there are hip-roofed skeleton structures which were at one time patented by Mr. Lowe. These resemble just the division rafters, uprights, etc., of an ordinary greenhouse. They are, however, so arranged that lights fit into the divisions on top and at the sides and a crop which has been growing in the open air for instance, during the whole of the summer, can be easily protected from the winter frosts simply by putting on the lights. This has been found an economical way of bringing a crop to perfection and some

hundreds of thousands of chrysanthemums are treated in this way as well as roses. Along the sides of these skeleton wooden structures run hot water pipes and temporary boilers are fitted to these in winter if necessary for any particular crop. The ends and sides of these structures are not glazed. They are simply covered with coarse canvas nailed on and kept in place by battens and it is astonishing how little warmth escapes from the houses thus fixed up. Besides roses and florists' chrysanthemums, other leading crops are early varieties of Chrysanthemum maximum, a magnificent strain of tall growing Iceland poppies, liliums, tulips, daffodils, etc., each in their proper season. Something like 500 hands are employed and every department of this large establishment bears obvious traces of the wonderful organizing abilities of its owners. Being entirely market growers it is rarely one learns of the firm of Lowe & Shawyer in the papers. There are few nurseries I know so interesting in many ways and so admirable in cultural methods.

W.

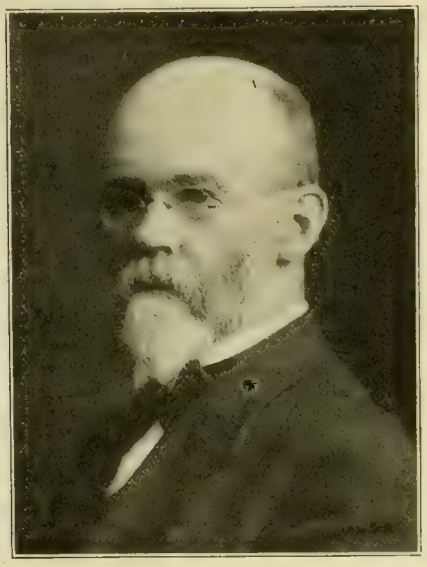
The Joseph Heacock Co., Wyncote, Pa.

Twenty-five years ago Joseph Heacock was a market gardener. Hotbed sash were a part of his equipment. These grew into greenhouses when bedding plants were added to vegetables as a part of the stock in trade. In course of the evolution the garden truck was lost to sight. Bedding plants became the factor and these in turn, with the erection of improved houses, gave way to cut flowers. The business grew, ranges of glass were added, each new addition being larger than the last until finally all the available ground was covered. Still the cry was for more greenhouse space. Partitions were removed, houses that had been built separately were joined together, until with the work just finished the whole establishment is virtually under one immense roof covering some 80,000 feet of ground surface.

Roses have long been a specialty, the aim being to grow the best and that this high ideal was realized is seen in the great number of prizes won in competition with the best growers of the country. American Beauty was for years a specialty, but gave way at last to Killarney, which Mr. Heacock says has paid him better than any other rose he ever grew. Carnations have always been grown, but never in large quantities until the past season, when Dorothy Gordon, a seedling (Lawson X Enchantress), was grown in quantity and which had the choice over all others of its color, rose pink, in this market during the past season. It is unquestionably the best pink carnation now in cultivation, being a larger flower with better stem, and more prolific than Enchantress, which is certainly a record hard to beat. It is to be sent out in the spring of 1910.

From garden truck to orchids there is a great span, but Mr. Heacock has made it and cattleyas are to be seen there in quantity; they were first given a trial two years ago and now the stock has grown to some 5,000 pots; these, together with a large house of cypripediums, will make the company a factor in the market for this class of flowers. The stock of established and recently imported plants is in fine condition, new growths being seen on all the clumps.

Palms have long been a specialty with Mr. Heacock, whose fine kentias are known the country over. The demand for room for this rapidly increasing branch of the business, which is likely soon to crowd out the roses and carnations, will necessitate the erection of an entirely new establishment to be devoted exclusively to cut flowers. Before another season this is likely to be well under way, as a number of locations have been looked into. The palms are, in fact, now the feature of the establishment; they are



Joseph Heacock, Wyncote, Pa.

all grown on the place from the seed up, nothing imported. Kentias Forsteriana and Belmoreana are seen in all sizes from 2-inch pots for fern dishes up to the large made-up stock in tubs worth $15 and $20 each. Cedar tubs of 7, 9 and 12 inches have largely taken the place of pots, being much more satisfactory. A block of well-grown arecas are also seen as well as cocos in quantity. Two benches 12 inches wide and 275 feet long each were arranged next the eaves of the large palm house; these contained seedling cocos in 2-inch pots. This space had never been utilized before, but has been found ideal, as it is out of the way and being over the steam pipes the seeds germinate quickly.

Throughout the ranges the palms are in the best condition, showing that dark green lustre that indicates perfect health. A small block of cibotiums are mounted on pedestals in the center of one of the houses. Mr. Heacock says this he finds to be much in demand and that next season the large sizes will be found wanting, as there is great scarcity of stock for growing on. One of the features of this establishment is that the visitor very rarely sees an empty bench space; no matter how fast the stock goes out those that are left are constantly pushing to the front. In one of the houses a stock of 75,000 young kentias in flats were waiting a chance to get into pots, while on a back bench 60,000 or more seeds had been sown to come along for next season. Tables are rapidly giving way to ground beds, on which the plants do better, the pots or tubs rest in coarse cinders. All borders of beds and walks are of cement. Taken all in all this is one of the model places of the country.

ROBERT KIFT.

THE RETAIL TRADE

Cross of Richmond Roses.

SEE SUPPLEMENT WITH THIS ISSUE.

Richmond roses used in any set form of design have a very fine effect and, although the solid form of cross does not appeal to the artistic sense of some patrons, yet there are many who will have it. Quite frequently, we are convinced, retailers do not get the price they ought to for this class of design. It is true that roses with short stems may be used and probably many of a second or even third grade may be worked off in this kind of design, but a great number have to be used in a cross, say six feet high, with arms in proportion and sometimes if retailers figured out what the roses cost, the time taken in wiring and making up together with the cost of the design frame, they would be surprised at the small amount of profit left even when they obtained a seemingly good price.

However, this is a matter for individual consideration. The closer and more solid the cross is made, the harder the lines, in short, the more need is their for a good, bold and well-executed base. Cycas leaves and fronds of Nephrolepis Whitmani stand out well and serve to show to the best advantage some finer and longer stemmed roses than are used in the body of the design. Other flowers are not always permissable, but when the customer does not stipulate otherwise a few lilies have a fine effect. Easter lilies, of course, always look well, but Lilium roseum and L. rubrum are also excellent in a case of this kind. Gladioli ,when they are in season with some of their own foilage and a few leucothoe sprays, are also good, in short, anything of a bold and striking character that will make a good contrast and stand out well from the stiff cross may be used.

Summer Flowers in the New York Stores.

There is no denying the fact that the summer dullness is here and that accelerated by the intense heat of June it arrived early and brought almost disastrous results to the cut flower trade. At a time when the great lines of transportation are taxed to their utmost capacity to carry that fortunate portion of the population that has the leisure and price to seek cooler climes, it can be readily understood that flowers are not in great demand. While the voyagers on the great Atlantic highway carried away many floral offerings from loving friends, which made some business, it is sadly recalled that many of these departures mark the loss, for several months, of good customers.

At this writing, July 3, there are prospects that for the next two days there will be a temporary exodus that will be literally a great outpouring of the masses. Unfortunately, at least

for the florists, though many suggestions have in the past been made as to a fitting and appropriate celebration of the "Glorious Fourth," none of them, so far as we are aware, have been applied along the lines of horticulture and floriculture. The nearest that we can get to it is that the dinners do to some extent help out our friends and coworkers of the strawberry and melon patches. The majority in the trade, with becoming philosophy, has settled down to accept the situation and make the best of it, which is better than worrying.

Though the foregoing is rather a dark picture, it does not follow that business is altogether at a standstill. There is a vast multitude, who, from business or other reasons, must remain in the city and possibly a few remain from inclination. To these people, for the next three months, the florists must look for enough business to tide them over the lean time. Even in very dull times, like the present, there are calls for fine stock, and it is satisfactory to note that there are but few of such orders that are not promptly filled. During the past week there have been a number of large funeral orders, filled largely with orchids, lilies and lily of the valley, a plentiful supply of all these stocks enabling the designers to turn out elaborate work on short notice.

The hot wave was very severe on roses and carnations. American Beauty, Killarney and Kaiserin Augusta Victoria are about the only roses now coming to market in quantities that are to be depended upon. There are a few fairly good Richmonds, enough to supply all demands for red roses. It may here be stated, however, that flowers that were formerly not considered suitable for funeral work are now freely used by leading designers. This includes both Richmond and American Beauty roses. The supply of American Beauties has been falling off considerably within the past week and the price for specials has advanced a few points. American Beauty is a good rose for every day in the year if it can be had, and, thanks to the enterprise of the growers, there are always some in this market. As already stated, the hot weather has put out many of the carnations and as a marketable crop we will soon see their finish for a time. Genevieve Lord is one pink that, though old, seems to stand the vicissitudes of weather better than some of the new and more noted varieties. A few asters have arrived and the indications are that the crop will be good, which will be welcome news to many of the retailers, as the aster fills a gap and no equal substitute has been found.

Sweet peas are very plentiful and not being expensive at the present they are certainly a boon to that large portion of the public that has highly developed taste for the beautiful but a slender pocketbook. It would be hard to get along without the sweet peas. Water lilies are now seen in considerable quantities and, if not great sellers, they are made very useful and attractive by some of the retailers, in improvised ponds in their show windows. In the window of a leading Broadway store, a lily pond, bordered with foliage plants, has been a great attraction for the past two weeks. A number of incubator goslings have been secured and are placed in the pond during the daytime, which adds realism to the scene.

There are a number of stocks on the market that, while not to be classed as "leading," find a place and sale. Lilium rubrum and L. auratum are now coming in and both are excellent for show window purposes or may also be used for funeral work and other purposes. There is a great amount of feverfew and it works in well in cheap bunches. The gardenia crop of this vicinity is about gone for the summer but a leading Pennsylvania grower is shipping in very good blooms and there is some demand for them. There is always, it may be stated, a limited demand for everything in this market, but the trouble is that we too frequently get a great surplus of some particular stock.

Many boxes of cut Crimson Rambler and Dorothy Perkins roses have recently been coming in but it cannot be said that they are much of an acquisition to the stock of the retailer. Many fine bunches of delphinium have recently been seen in show windows and for this purpose, if for no other, they work in very well, adding a pleasing contrast and variety. Were it not for the roof gardens and palm rooms of the big hotels and cafes, the plant trade would be practically dead. Your thrifty housewife is not buying plants to have them burned up when she goes for a day's outing. The window-box and veranda work is generally finished and so is bedding, so with the exceptions noted and possibly a few table ferns, we will hear little of trade in plants for the remainder of the summer.

MARION, IND.—Alfred Hacker will build a new greenhouse here shortly.

Hughes Florists vs

1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
	TOTAL SCORE		TOTAL SCORE

CUBS—*vs.*—HUGHES
Baseball

As each day goes by, it becomes more apparent that if any team is to beat those Cubs out of another World's Championship, it must be a team of Chicago boys. The Giants are down and out, and the Pirates can't steal and plunder from the Cubs any better than they could before Kling deserted us. So what's the use of expecting a contest unless it is between ourselves?

Just to show those ever-winning Cubs that they have got to fight this year, if they are going to be the Champs again, I have organized a "Hughes" team that is going to play a series with the Cubs for the real championship of the world. I have a team that will give them a run. My shortstop, Billy McGovern, you have never heard about, but it is said he has gone clear over behind second base and nailed a line drive right off Hans Wagner's bat and spiked speedy little Willie Keeler, trying to score from third, at the home plate, and my catcher works like Mike Kelly in his prime. You should see him nail Frank Chance trying to steal second.

Now, the series will be played in the window of my Flower Emporium, at 690 W. Van Buren St., and can be watched at close range any day or night that you happen to pass by. Of course, it is just a reproduction, but you will be surprised how lifelike and natural everything appears. There is the diamond, exactly reproduced from the west side park. Handsome Johnny Evers is making a run for home. You can see that steely glint in his eyes which shines there just before a great play. The ball is in the air, and great Schulte is at the plate, ready to drive in a run with his Big Betsy bat. Sheckard is sliding to second —not even Longboat could ever catch that speedy boy.

Every player is in his position, prepared to stop the scoring of the terrible Cubs; the cheering crowds in the grand-stand are shouting encouragement to both sides. You can look down over the field and pick out your favorite player. It is an inspiring spectacle to every fan, reproducing with such naturalness a great moment in a great game. Which side will win? I don't know. But I am a true baseball fan and if the Cubs beat "Hughes" team, it will be because they are the best team. If my team wins, "Hughes" will be World's Champion in baseball, just as he is Chicago's Champion Flower Man now.

If you are a real lover of the National Game, come and see this game. Bring your best girl along. She will enjoy it just as much as she does the other pretty things that can be seen in my windows at 690 West Van Buren Street, corner of Lincoln Street.

Phone West 619 HUGHES—FLORIST

MORE OF THE HUGHES BRAND OF ADVERTISING.

Hughes' Baseball Advertising.

We reproduce on this page the front and reverse of a card sent out by H. R. Hughes, West Van Buren street, Chicago, as an advertisement. The baseball scorecard is used at the games played by his team and the whole forms one of his advertising stunts for which the people on the west side are always on the lookout. This strikes us as one of the most original things of the long series Mr. Hughes has sent out and about 50,000 have been distributed.

Handling Flowers While in Use.

ED. AMERICAN FLORIST:—

Is it better to put roses and carnations in and out of icebox every 15 minutes or leave them out while using them during summer weather?

AN OLD SUBSCRIBER.

Leave them in the icebox as long as possible and return them at once as they are done with.

Temperature for Cut Roses and Carnations.

ED. AMERICAN FLORIST:—

What is the proper temperature to keep cut roses and carnations?

AN OLD SUBSCRIBER.

If the icebox can be kept at 45° or even a few degrees lower they will be all right. But not every icebox can be kept as low.

Keeping Roses and Sweet Peas in Icebox.

ED. AMERICAN FLORIST:—

Do roses or sweet peas keep better in pans out of water in icebox than in vases in icebox?

AN OLD SUBSCRIBER.

All flowers keep best in water.

Peonies at Sarcoxie, Mo.

The illustration herewith shows a fine block of two-year-old plants of that popular peony, Queen Victoria, growing in the field of Gilbert H. Wild, Sarcoxie, Mo. The photograph from which the cut was prepared was not as clear as we would have liked, but it is quite apparent that the plants are good and have made great progress, considering their age. Mr. Wild has had a long experience with peonies, having been in the business for many years. He has 15 acres devoted entirely to their culture.

PEONIES AT GILBERT H. WILD'S, SARCOXIE, MO.

Two Year-old Queen Victoria.

Root Crops.

A paper read by C. A. Zavitz of the Ontario Agricultural College, Guelph, at the convention of the American Seed Trade Association, Niagara Falls, Ont., June 23.

The growing of roots as a feed for farm stock has received much attention in many of the European countries. The root crop, however, has never been developed to the same extent in America, owing, no doubt, to the large areas devoted to corn in certain sections, and to the adaptability of the soil to grain crops throughout a considerable part of both the United States and Canada. In the northeastern states and in Ontario, Quebec and the maritime provinces, however, the field roots occupy an important place in agricultural production. In some sections of the country, the area devoted to the root crop is increasing from year to year. In order to illustrate this point, I would draw your attention to the increase in the area devoted to the mangel crop in the province of Ontario. This increase can be observed from a study of the number of acres used for mangels in each of a number of the past years, as follows: 1882, 15,791; 1887, 17,924; 1892, 22,026; 1897, 41,175; 1901, 61,095; 1908, 67,937. During the same period of 26 years, the area devoted to turnips increased from 78,823 in 1882 to 120,920 acres in 1908. Within the last few years, however, the area used for turnips has been decreasing, and that for mangels increasing to a considerable extent, owing, no doubt, to the greater development of the dairy industry, in connection with which the mangels prove more serviceable than the turnips.

Root crops may properly include a large number of vegetables, as well as those crops which are usually grown for farm purposes. This article will be confined entirely to that class usually known as field roots, and more particularly to the mangels, sugar beets and Swede turnips. I take it for granted that the members of the American Seed Trade Association are already in possession of a large amount of general information, and in many cases of detailed information regarding the production of field roots as a farm crop, as it relates to the seed trade. I will, therefore, confine my remarks almost entirely to certain experiments and investigations which we have conducted at the agricultural college at Guelph.

CANADIAN GROWN ROOT SEED.

Nearly all the seed of field roots which is used in Ontario is grown in Europe. From certain preliminary experiments and observations which we made previous to the year 1905, we obtained the impression that root seed produced in this country was likely to give very satisfactory crops. During the last three years, we have carried on systematic work in the production of seed of mangels, Swede turnips and carrots, and have been testing the seed so produced with seed of similar varieties which has been imported. In the autumn of each of the past four years, roots were selected and stored during the winter and were replanted in the spring. Some of each class of roots were pitted in the fall, some were stored in piles in the root cellar, and some were placed in sand. We have, however, found it difficult to pit a small quantity of roots and have the roots under the same conditions as those which have been pitted in large quantities. In the other methods of storing, we found we could obtain practically as good results when the roots were stored in loose piles in a cool cellar as when they were packed in sand, but there was less mould and sprout in the early spring from the latter than from the former method.

Professer C. A. Zavitz.

Of the Ontario Agricultural College, Guelph.

During the past few years, we have obtained some very good results indeed from home grown root seed. On the whole, the home grown seed proved to be a little higher in germination and seemed more productive of roots than the seed which was imported. The Ontario grown mangel seed surpassed the imported seed in yield of roots per acre by 8.3 per cent. in 1907, and by 12.4 per cent. in 1908. In the autumn of 1907 the mangel seed did not ripen as evenly as in the year previous, some of the plants producing but little ripened seed. In the fall of 1908, however, all kinds of root seed matured very well, and the germination of the home grown mangel seed, in particular, is decidedly better than that of any of 30 varieties of imported seed which were sown this spring. We are at the present time extending our experiments in the growing of root seeds considerably, and hope to secure additional knowledge along this line of work from year to year.

SELECTION OF SEED.

Within the past few years, a large amount of experimental work has been done to determine the influence of different selections of seed upon the resulting crop. From the numerous experiments which have been conducted at our college on seed selection, only those bearing directly on the size of the seeds of field roots which were sown, are here presented. Four tests were made annually with the different selections of seed of the field roots. Duplicate experiments were conducted, in which the seeds of the different selections were planted separately, and duplicate experiments were also conducted by planting three large, five medium and eight small seeds at each place where it was desirable for a root to grow. The plants were afterwards thinned, leaving one plant in place and having the plants of the different selection of each class at an equal distance apart. When the roots were harvested, the yields of the duplicate tests of each method were averaged. The following table gives the average results of the duplicate tests made by means of each of two methods of comparison, in order to ascertain the amount of the influence of the size of root seeds on the size of the roots produced.

	Roots	Number of years of tests	Yield of Crop per Acre: Large seed (tons)	Medium seed (tons)	Small seed (tons)
Plots in which equal numbers of seeds were planted separately.	Mangels	5	31.19	27.02	18.57
	Sugar beets	5	23.25	21.32	13.48
	Swede turnips	5	15.35	12.63	7.03
	Fall turnips	4	25.27	20.78	12.90
	Field carrots	5	22.32	19.31	13.59
Plots in which equal numbers of plants were left when thinning.	Mangels	5	35.17	32.23	24.47
	Sugar beets	5	22.54	22.37	15.05
	Swede turnips	5	18.77	17.85	10.40
	Fall turnips	3	22.98	22.23	22.48
	Field carrots	5	26.62	25.13	18.87

Note.—In the case of mangels and sugar beets the seed clusters instead of the separate seeds were used.

In the foregoing table, there are no less than 94 distinct experiments conducted with large, medium sized, and small sized seeds of five distinct classes of roots. In fully 85 per cent. of the separate tests the larger seeds yielded more heavily than the smaller seeds.

For several years in succession, we planted root seeds to the depth of one-half inch, one inch, one and one-half inches, two inches, three inches and four inches, in order to ascertain the depth at which we might expect to obtain the best results throughout a series of years. The experiments were conducted on comparatively low land, and also on land of considerable elevation. The soil was what might be termed an average clay loam, and in no instance was it very light or very heavy. Level cultivation was used throughout. In each instance the experiment was conducted in duplicate for each of five years with mangels and sugar beets, and for each of four years with Swede turnips and carrots. The average results show that with each class of roots the best yields were obtained from sowing the seed at a depth of one-half inch below the surface. The following are the average results of the 10 tests made in the five years with mangels, and represent the yield of roots per acre from each depth of planting: one-half inch, 23.6 tons; one inch, 19.8 tons; one and one-half inches, 19.3 tons; two inches, 17.9 tons; three inches, 13.8 tons; and four inches, 6.3 tons.

In each of five years, an experiment was conducted in duplicate by thinning mangels, fall turnips and Swede turnips 4, 8, 12, 16 and 20 inches apart in the rows; and carrots 2, 4, 6, 8 and 10 inches apart in the rows. The rows were 3 1-3 links or 26 2-5 inches apart in all cases. The average results of the experiments show that in almost every instance as the distances between the roots in the rows were increased, there was an increase in the average size of the roots, but a decrease in the dry matter in the roots and also in the yield of roots per acre.

An experiment was conducted in duplicate in each of five years by sowing sugar beet seed in rows which were made at different distances apart. Seven rows were sown in each plot. The outside rows were discarded and only the five inner rows were taken into consideration when determining the yield of the plots. The roots were thinned to a distance of seven inches apart in the rows. The Kleinwanzlebener variety of sugar beet was used throughout. Not only were the yields per acre determined, but the roots were also analyzed in the chemical laboratory at the college, and the quantity and the quality of sugar was thus ascertained. The following table gives the average of the five years' results of the percentage of sugar, the purity of juice, the average weight per root, and the yield of roots per acre for each of the different distances allowed between the rows.

Inches between rows	Percentage of sugar	Purity of juice	Average weight per root (lbs.)	Yield of roots per acre (tons)
12	17.1	85.7	.62	20.5
14	17.2	87.2	.65	20.2
16	16.8	86.4	.73	19.3
18	16.9	87.8	.80	18.9
20	17.0	86.3	.87	18.7
22	16.4	85.2	.94	18.4
24	16.9	87.3	.99	18.1
26	16.9	88.8	1.04	17.7
28	16.8	86.8	1.11	17.0

In Germany, where the sugar beet is used very extensively for factory purposes, the rows are made rather close together, being only 18 to 20 inches apart in many instances. By having the rows fairly close together and the plants quite near to each other in the rows, it is claimed that the largest percentage of sugar is obtained from the beets. Our results tend to show that in this country, however, the composition of the roots, grown in rows at different distances apart, show but slight variations either in the percentage of sugar or in the purity of the juice

THINNING AT DIFFERENT STAGES.

In thinning sugar beets at four different stages of growth in each of five years, it was found that the greatest average yield per acre was obtained when thinning the plants when about 2 inches in height. There was an average increase of 1.3 tons per acre when the roots were thinned at a height of 2 inches as compared with those which were thinned at a height of 8 inches.

Numerous other experiments with field roots have been conducted at the college, but as the results are of interest more particularly to those who are engaged in practical agriculture than to those connected with the seed trade, their presentation is omitted from this paper. From the results of the experiments here presented regarding the source of the growth of the seed, the selection of the seed itself, and the influence on the resulting crop from sowing at different depths, from thinning to different distances apart and at different stages of growth should, I think, form a good basis for a profitable discussion and for further investigation.

THE WARETOWN ROD AND GUN CLUB AT BARNEGAT BAY. (See Last Issue.)

Left to Right: H. B. Beatty, Robt. Craig, Wm. Graham, Dr. Lane, Charles Eimerman, W. J. Stewart, Edwin Lonsdale, D. C. Donoghue, John Westcott, George Craig, John Durham.

GROUP AT THE NINTH ANNUAL OUTING, NEW YORK FLORISTS' CLUB, JULY 1.—See Page 1252.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50 Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:
A. F. FAULKNER, 1133 Broadway, New York.
ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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THE AMERICAN FLORIST desires the names of members who have been very regular in attendance at the recent annual conventions. It desires to compile a list of those who have attended the most meetings, and will be glad to receive records from its subscribers who have been constant in their attendance at the S. A. F. conventions.

Plant to Name.

ED. AMERICAN FLORIST:

Enclosed you will find leaf of a plant. Please let us know, through the columns of the AMERICAN FLORIST, the correct botanical name. L. C.

The specimen sent was much too small, besides being withered, to determine what it was.

THE senate voted, June 18, to raise the duty on print paper above that paid by the house bill.

A MEETING of the Illinois florists' advisory committee is called for Tuesday, July, 13, at Champaign.

EDWARD VALENTINE HALLOCK is remembered, with portrait, by a memorial page in the New York Florists' Club souvenir outing book.

AND it's going to be a warm reception at the S. A. F. convention. Still if those Cincinnati people put their money for decorations into electric fans there seems to be no reason for anyone becoming unduly heated about it.

THE preliminary premium list of the St. Louis Horticultural Society's third fall exhibition is out and may be obtained of Otto G. Koenig, 6473 Florissant avenue, St. Louis. The show will be held in November, but the date has not yet been fixed.

THE premium list of the plants, flowers and fruit section of the seventy-eighth fair of the American Institute, New York, to be held at the Berkeley lyceum, September 21-23 is out and contains a long and varied selection of prizes in all these classes of produce. Correspondence should be addressed, W. A. Eagleson, Secretary Board of Managers, American Institute, 19-21 West Forty-fourth street, New York.

Society of American Florists.

TRANSPORTATION TO THE CONVENTION.

It seems to be settled that no special rates will be granted for the convention, the traffic associations pointing out that the regular rates now quite generally charged, namely, two cents per mile or four cents for the round trip, are precisely the same as the special rate of a fare and a third which the society used to have under the old three cents a mile system, and they claim that nothing beyond this can be allowed. The fact is pointed out, however, that tourist rates are in effect from a great many points in the country to all the larger cities, and that by a little inquiry most of the members of the society can obtain a very low rate to some large city like St. Louis, Chicago or Buffalo, and from there join the local club and get advantage of any special arrangements which they are able to make.

This being the twenty-fifth annual meeting of the society and Cincinnati being such a central point, such great exertions being made by the Cincinnati people to make the reception and entertainment something out of the ordinary, all seem to insure a large attendance at the convention. Reports from all points indicate great interest in the convention and that an unusually large number have signified their intention of attending.

Superintendent Murphy reports an extraordinary demand for space, both in the number of applicants and in the large spaces required, which seems to insure a phenomenally good exhibition. The hall set aside for the trade exhibition is perhaps the best which the society has ever had and the meeting hall, both in size, comfort and convenience and also in its easy access to the trade exhibition, seems to be nearly ideal. In the meeting hall is a magnificent pipe organ, and Vice-President Gillett has secured the services of one of the leading organists in Cincinnati for organ recitals previous to the opening of each session.

The preliminary programme for the convention will be issued shortly and mailed to all members. Copies will be cheerfully sent to all others on application.

DELEGATE TO SWEET PEA SOCIETY.

Pursuant to a request of Secretary Bunyard of the National Sweet Pea Society, President Valentine appointed F. H. Traendly to represent the S. A. F. at the meeting of this society, July 7-8.

July 2, 1909. W. N. RUDD.

Louisiana Red Cypress.

ED. AMERICAN FLORIST:—

It has been called to the writer's attention that there is being offered for sale pecky cypress which comes from the middle states, and which has not the lasting qualities of the Louisiana red or gulf pecky cypress. As to the lasting qualities of the Louisiana red or gulf cypress there is no question. Such concerns as Bassett & Washburn, Hinsdale, Ill.; Poehlmann Bros., Morton Grove, Ill.; Emil Buettner, Park Ridge, Ill.; Peter Reinberg, Chicago; J. F. Wilcox, Council Bluffs, Ia.; A. Graham & Sons, Cleveland, O.; J. Breitmeyer's Sons, Mt. Clemens, Mich.; Wm. L. Rock Floral Co., Kansas City, Mo.; Griswold Greenhouse Co., Ashtabula, O.; Geo. F. Hartung, Sandusky, O., and hundreds of others too numerous to mention, have used Louisiana cypress for years and can attest to its lasting qualities. Some of the above named have used it for 10 years or more. Others possibly for less time.

George F. Hartung, Sandusky, O., made a statement at the gardeners' convention in Cleveland last year, that after having been in use in his benches five years, he turned over Louisiana red pecky cypress which we had shipped him, and found that it had not started to rot anywhere, even at the cross supports.

Within the past week florists have advised us that when they departed from using Louisiana red pecky and bought that which was offered by others at a little less money, in some cases even not at a less price, they got a very inferior article which did not last, and it would be a great injustice to any florist to invest his money in lumber for benches, to find that instead of lasting 10 or 15 years, it would only last two or three. Experience has taught that Louisiana red pecky is the stock that lasts. Can you beat it? If so, we want to know what is better, as the best is none too good to offer to our friends. We believe that florists in buying pecky cypress, should insist on getting a guarantee that it is the genuine or refuse to buy it. There is nothing cheaper on the market today, considering the lasting quality of the wood, than Louisiana red pecky cypress, so why use a cheap substitute that will not last half as long? No matter who you buy it from, insist on having Louisiana red gulf stock. There are plenty of people to buy it from, and gulf red stock is practically free of sap. Sap will rot out in a very few years, while heart red lasts many years.

THE FOLEY MANUFACTURING CO.

National Sweet Pea Society.

FIRST EXHIBITION (by wire).

The National Sweet Pea Society is now an accomplished fact, having been organized, officers elected and the first exhibition held July 7-8. The exhibition was held in the museum of natural history, Seventy-seventh street and Columbus avenue, New York, John Craig acting as temporary chairman and delivering an address. The following are the officers elected:

Harry Turner, president.
H. W. Waite, vice president.
Harry Bunyard, secretary.
Wm. Duckham, treasurer.

The exhibits by the leading growers were of excellent quality and the first show will go on record as a great success. We give below the first prize winners in each class:

The Arthur T. Boddington cup; for the largest collection of sweet peas, number of varieties to count.—Howard Gould.

The W. Atlee Burpee cup; for the largest collection of sweet peas, the number of varieties to count.—Wm. Duckham.

The Peter Henderson & Co. cup, or its value; for the best 25 vases of sweet peas, distinct varieties.—W. W. Rawson & Co., Boston, Mass.

The W. W. Rawson silver medal; for the best 12 vases of sweet peas, distinct varieties.—Chas. R. Hedden, Madison, N. J.

The Stumpp & Walter prize, $10 in gold; for the best six vases of sweet peas, distinct varieties.—Seth Low.

The Henry A. Dreer prize, $10 in gold; for the best 10 vases of sweet peas, Spencer or Unwin flowered, in 10 varieties.—Seth Low.

The Morris County Gardeners' and Florists' Society's prize; for the best six vases sweet peas, six varieties, 20 stems to a vase.—Wm. Duckham.

The C. C. Morse & Co.'s cup; for the largest collection of sweet peas, number of varieties to count. Open to the trade only.—A. T. Boddington.

The J. M. Thorburn & Co.'s prize; for the best 15 vases sweet peas, 15 varieties.—Seth Low.

The W. Atlee Burpee prize; for the best vase of waved or Spencer type sweet peas introduced in 1909.—W. W. Rawson & Co.

The Watkins & Simpson prize (London, Eng.); for the best three vases of sweet peas disseminated in 1909.—Wm. Duckham.

The Henry F. Michell prize; for the largest and best vase mixed sweet peas.—F. S. Orminston, Bernardsville, N. J.

The F. R. Pierson & Co. prize; for the best three vases of sweet peas, three distinct colors.—Seth Low.

The John Young prize; for the best vase of sweet peas, crimson, one variety only.—Seth Low.

The Jerome B. Rice prize; for the best vase of sweet peas, white, one variety only.—Seth Low.

The Harry Turner prize; for the best vase of sweet peas, light pink, one variety only.—F. S. Orminston.

The Frank H. Traendly prize; for the best vase of orange shades sweet peas, one variety only.—W. W. Rawson & Co.

The Chas. H. Totty prize; for the best vase of yellow, one variety.—W. W. Rawson & Co.

The A. T. Boddington prize; for the best vase of bicolor, one variety.—W. W. Rawson & Co.

The judges were W.... Sim, Cliftondale, Mass.; A. C. Zvolanek, Boundbrook, N. J., and G. W. Kerr.

Meetings Next Week.

Chicago, July 14.—Gardeners' and Florists' Union No. 10615, 10-12 Clark street.

Cleveland, O., July 12, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

La Crosse, Wis., July 13.—La Crosse Gardeners' and Florists' Society, Hotel Stoddard.

Lake Geneva, Wis., July 17, 8 p. m.—Lake Geneva Gardeners' and Foremen's Association, News building.

Madison, N. J., July 14, 7:30 p. m.—Morris County Gardeners' and Florists' Society, Masonic hall.

New London, Conn., July 14.—New London County Horticultural Society, Elks hall.

New Orleans, La., July 11, 2 p. m.—Gardeners' Mutual Protective Association, 118 Exchange alley.

New Orleans, La., July 15, 8 p. m.—New Orleans Horticultural Society, Kolbs hall, 127 St. Charles avenue.

New York, July 12, 7:30 p. m.—New York Florists' Club, Grand Opera House building.

New York, July 14, 4:30 p. m.—Horticultural Society of New York, American Institute rooms.

Pasadena, Calif., July 16, 8 p. m.—Pasadena Gardeners' Associatioin, G. A. R. hall, East Colorado street.

Rochester, N. Y., July 12, 7:30 p. m.—Commercial Florists' Association of Rochester, 24 Stone street.

San Francisco, Calif., July 17.—Pacific Coast Horticultural Society.

Scranton, Pa., July 16, 7:30 p. m.—Scranton Florists' Club, Guernsey building.

Springfield, O., July 12.—Springfield Florists' Club, office of the Good & Reese Co.

Florists' Hail Association.

The following list of losses has been paid by the Florists' Hail Association from June 1 to July 4, 1909:

F. L. Lainson, Council Bluffs, Ia..	$44.74
L. G. McKenzie, Olathe, Kans.....	45.64
Joseph Tosini, Sioux Falls, S. D...	117.26
P. Rizer, Blackwell, Okla.....	52.00
Nellie Wright Fabyan, Geneva, Ill.	74.11
James M. Tanner, Emporia, Kans.	14.70
F. Calvert & Son, Lake Forest, Ill.	13.75
C. H. Kunzman, Louisville, Ky....	63.46
C. W. Strubel, La Fayette, Ind....	43.13
H. W. Buckbee, Rockford, Ill.....	206.80
Furrow & Co., Guthrie, Okla.....	255.52
G. Van Bochove & Bro., Kalamazoo, Mich.	1,629.66
The Kindler Floral Co., St. Cloud, Minn.	2.20
A. J. Raub, La Fayette, Ind.....	85.88
Margarethe Ergelland, Blue Island, Ill.	101.22
C. J. Lempe, Concordia, Kans.....	10.80
Keeling & Leuner, Canton, Ill.....	13.75
J. J. Thomas, (Mgr.), Pueblo, Colo.	329.80
Summerfield Floral Co., Springfield, Mo.	129.22
Chas. Summerfield, Springfield, Mo.	350.98
Nussbaumer Floral Co., San Angelo, Texas	107.66
Percy R. Walter, Wakefield, Kans.	95.60
Jefferson Floral Co., Jefferson City, Mo.	11.90
Ki-ote Seed Co., Sioux Falls, S. D.	37.80
W. T. Atkinson, Pueblo, Colo.....	45.00
C. H. Wallace, Pueblo, Colo.....	99.90
F. B. Battles, Pueblo, Colo.....	223.70
Thos. Burnett, Cincinnati, Ohio...	16.80
Oscar Tweed, Pueblo, Colo.....	543.00
A. J. Baldwin, Newark, Ohio.....	36.58
Sherman Nursery Co., Charles City, Iowa	56.91
C. L. Shanks, Newton, Kans.....	141.38
Helm Bros., Blue Island, Ill.....	487.83
A. Gardner, Greeley, Colo.....	163.00
Colorado Springs Floral Co., Colorado Springs, Colo.....	792.54
Dole Floral Co., Beatrice, Neb.....	35.60
Dr. Chas. Jordan, Wauseon, Ohio..	55.02
W. H. Kelley, Pueblo, Colo.....	384.90
G. Fleischer, Pueblo, Colo.....	2,800.92
E. E. Weed, Pueblo, Colo.....	48.80
W. D. Alt, Pueblo, Colo.....	99.30
George J. Dunbaugh, Pueblo, Colo..	385.60
E. R. Ripley, Colorado City, Colo..	119.00
Lee E. Dalton, Pueblo, Colo.....	160.10
John W. Smith, Colorado Springs, Colo.	68.46
M. D. Hoagland, Pueblo, Colo.....	26.04
E. H. Divelbiss, Pueblo, Colo.....	117.70
Charles Willworth, Pueblo, Colo..	16.30
E. G. Donley, Pueblo, Colo.....	231.50
	$10,993.46

JOHN T. ESLER, Sec'y.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc

Situation Wanted—By competent florist and gardener single; private place perferred. Key 846, care American Florist.

Situation Wanted—Young man studying for estry and paying his expenses through college wants outdoor work until fall in or near Chicago. Key 850, care American Florist.

Situation Wanted—As general manager or superintendent of work landscape department thoroughly experienced. SAMUEL SCOTT. Box 278, Wakefield, Rhode Island.

Situation Wanted—By florist and gardener; can come well recommended; life experience growing plants. Address HENRY GREEN, Stag Hotel, Van Buren St., Chicago.

Situation Wanted—To recommend a sober and trustworthy greenhouse man; single; any firm wishing a man they can rely on. Address THE MINGE FLORAL CO., Mobile, Ala.

Situation Wanted—By young man; married; German; as foreman and grower of roses and carnations, can show best results please state wages in first letter also full particulars. Address Key 848, care American Florist.

Situation Wanted—As foreman, good grower of roses, carnations cut flowers, bedding plants; used to store work, seeds, designing, etc; up to date methods; age 35; references. Address Key 851, care American Florist.

Situation Wanted—German, 22 years old, wishes position in rose houses as section man; near Chicago preferred. Address ERWIN EINSMANN, 111 Mead Ave., Port Chester, N. Y.

Situation Wanted—Gardener and florist; single; 30 years of age; 14 years' experience in private and commercial places; grower and propagator of pot and bedding plants, cut flowers, carnations, roses, violets, mushroom and landscaping; wish for position before Aug. 1st. Private or institution preferred; can furnish the best of references. Address Key 849 care American Florist.

Partner Wanted—To engage in florist business; good opening; A 1 proposition. Address R. A. WILLIAMS, Toulon, Ill.

Help Wanted—Competent carnation grower to take section under foreman. G. VAN BOCHOVE & BRO., Kalamazoo, Mich.

Help Wanted—Strong young men for handling wheelbarrows and as helpers in greenhouses; steady employment to the right kind POEHLMANN BROS. CO., Morton Grove, Ill.

Help Wanted—First-class designer, decorator and storeman for retail store. Address, giving particulars, salary, etc., Key 844, care American Florist.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address Key 857, care American Florist

Help Wanted—Reliable traveling salesman to work market garden trade also to work in store; must have experience on the road also a thorough knowledge of the seed business; good salary to right party; best of references required. J. F. NOLL & CO., 115 Mulberry St., Newark, N. J.

For Sale—Greenhouse in Salida, Colorado, 6000 feet of glass, good trade, no competition; price low; address owner. J. H. FREEMAN, Salida, Colo.

For Sale—15,000 feet of glass 20 acres of land; well located, well stocked; good reasons for selling; Eastern Ohio; wholesale; carnations a specialty; a bargain if sold at once. Address Key 842 care American Florist.

For Sale—Florist's establishment, 12,000 ft of glass, two acres of ground large dwelling house, barn, etc; greenhouses nearly all new; best in town; property is on a corner, east front on best residence street in town; both interurban and city cars pass the place; progressive town of 30,000 inhabitants near Chicago; good reasons for selling. Key 845, care American Florist.

For Sale—Greenhouse plant of about 19 000 feet of glass; steam heat; cheap coal; all stock goes with the plant; six-room cottage; about one acre of ground; on car line; horse, wagons, tools, designs and all go with plant; a rare chance for a good florist with $5 000 cash; balance on easy terms; reason for selling, poor health, not able to look after the business. Address A. D. JONES, Colorado Springs, Colo.

Boilers for Sale.

One 100 H.P. Scotch type internal fired boiler, safe for 125 lbs. of steam and practically new.

One 125 H. P. return tubular boiler, one plate on bottom, safe for 80 lbs. of steam.

Above boilers will be guaranteed first-class, and will be sold at a low price. Full specifications and price on application.

The D. Connelly Boiler Co., Cleveland, O.

Situation Wanted

As foreman, able to take entire charge; have been very successful with roses and carnations; married; 20 years' experience in all lines; best of references from former places. Address

FLORIST, 284 E. Huron St., Chicago.

WANTED --- At Once

A good grower of roses, carnations, 'mums and general line of pot plants; must be able to produce results; permanent position and good pay.

—— Address ——

Key 839, care American Florist.

New Crop FERNS

Fancy and **Dagger** can never be better than now. They are just now fully matured (in these high mountains) and we **guarantee** them to reach you in good condition.

We name the price, $1.00 per 1000, but you must pass on the quality. We allow the usual wholesale discount on wholesale quantities.

Cash must accompany first order, or reference and time to investigate. We are prepared to fill **all orders quickly.**

T. J. Ray & Co.,

Elk Park, N. C.

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.

BUFFALO, N. Y.

Florists' Supplies and Wire Designs.

—THE—

J. M. McCullough's Sons Co.,

Wholesale Commission Florists.

—CONSIGNMENTS SOLICITED.—

Special attention given to Shipping Orders.

Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.

Price List on Application.

316 Walnut St., CINCINNATI, OHIO.

Phone Main 584.

Canadian-Pacific Turns Gardener.

The Canadian Pacific railroad has gone into gardening. It has established on land it owns near Winnipeg a model garden of 20 acres and has started in to raise flowers and vegetables. The railroad is not going into the business for profit except indirectly. It has been in the hotel business for years, owning and operating many hotels on its line across Canada. This garden at Winnipeg will supply flowers and vegetables for the hotel at Winnipeg, and probably for others to which quick shipments are possible. Greenhouses are to be erected before next winter, so that vegetables and flowers may be raised the year round. Bulbs and plants will be propagated for the beautification of the grounds around the company's hotels and stations all along the line.

Fancy and Dagger FERNS $1.25 per 1000

Discount on large orders.

New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50

Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.

MICHIGAN CUT FLOWER EXCHANGE, Inc.,

WHOLESALE COMMISSION FLORISTS,

38-40 Broadway, All Phone Connections. **DETROIT, MICH.**

HENRY M. ROBINSON & CO.

15 Province St. and 9 Chapman Place, **BOSTON, MASS.**

WHOLESALE COMMISSION FLORISTS

Hardy Cut Evergreens and Florists' Supplies

We have the stock and can fill all orders, large or small.

New Crop Fancy and Dagger Ferns, $2.00 per 1000.

FANCY. **WE NEVER DISAPPOINT. SATISFACTION GUARANTEED.** DAGGER.

WM. C. SMITH

Wholesale Floral Co.

WHOLESALE FLORISTS

1316 Pine St., Both L. D. Phones. **ST. LOUIS, MO.**

Supplies and Everything in Season always on hand.

Wholesale Flower Markets

ST. LOUIS, July 7.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Kaiserin	2 00@ 4 00
" Killarney	2 00@ 4 00
" Rhea Reid	3 00@ 5 00
" Richmond	2 00@ 4 00
Carnations, fancy	2 00@ 2 50
" common	1 00@ 1 50
Lily of the Valley	2 00@ 3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy .....per 1000,	2 00
Smilax	12 50

CINCINNATI, July 7.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches.....per bunch,	50c
Boxwood.....per lb,	15c
Ferns, Eastern.....per 1000,	$1 50
Galax, Green and Bronze	1 00
Leucothoe.....per 100,	50
" .....per 1000,	4 50
Smilax	1250@15 00

BUFFALO, July 7.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	2 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	1 00@ 2 00
Gladiolus	4 00@ 5 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Snapdragon	1 00@ 2 00
Sweet Peas, outdoor...doz, bu	50@ 1 00
Water Lilies	2 00@ 3 00
Asp. Plumosus strings...each	50@ 60
Ferns.....per 1000	1 50
Galax.....per 1000	1 50
Smilax strings	15 00

DENVER, COLO.—Fine progress is being made by the city in the construction of the new park and sunken garden at Ninth and Cherokee streets.

New Crop Hardy Cut Ferns

FANCY and DAGGER.

60c per 1000.

Laurel Roping, Fine quality. 5c per yard.

Bouquet Green, in bulk or roping. 7c per lb 5c per yd.

Sphagnum Moss, fine qualty, 60c per bbl

Florists' Supplies of all kinds.

Cash with all orders.

All orders promptly attened to

THOMAS COLLINS,

Box 241, HINSDALE, MASS.

E. A. Beaven

LOG MOSSES

Natural and Perpetuated.

Special prices for quantity lots for future delivery.

EVERGREEN, ALABAMA.

George Cotsonas & Co.

Wholesale and Retail Dealers in all kinds of

Evergreens.

Fancy and Dagger Ferns, Bronze and Green Galax.

Phone 1202 Mad. Sq.

Main Store, 50 W. 28th St., NEW YORK.

New Crop Ferns

FANCY and **DAGGER** ready May 1st.

Special price for large orders

Price $1.25 per 1000.

CALDWELL THE WOODSMAN CO.,

Evergreen, Alabama.

Ferns

NEW CROP.

Fresh from the patch

Fancy and Dagger Ferns, $1.00 per 1000.

Discount on large orders. If you want the cream of the season, send orders now. Sixteen years' experience. Send cash with first order.

Green Galax, 50c per 1000.

J. N. PRITCHARD, Elk Park, N. C.

H. G. BERNING,

Wholesale Florist,

1402 Pine St.. ST. LOUIS, MO.

Summer Roses

We make a specialty of **Kaiserin, Pres. Carnot, Killarney, Richmond, Perles** and **New Beauties** during the hot weather, and have built cold storage facilities to handle **Summer Roses** alone.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$3 00
30 inch	2 00
20 inch	1 50
18 inch	1 00
Shorter stems	50 to 75

KAISERIN, KILLARNEY, RICHMOND Per 100

Long and select	$6 00 to $8 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	2 00 to 3 00

CARNOT, BRIDE and PERLE

	Per 100
Long and select	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$2 00 to 3 00

Short Roses in not less than 500 lots, per 1000 $15 00

CARNATIONS. Per 100

Fancy, long, Red O. P. Bassett	$1 50
White and Winsor	1 50
Enchantress, fancy	1 50

PEONIES, Pink and white, per 100	$2 00 to $4 00
EASTER LILIES, per 100	6 00
" " per doz	1 00
LILY OF THE VALLEY, per 100	2 00 to 3 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, new crop, per 1000	2 00

BASSETT & WASHBURN

Store and Office: 76 Wabash Ave. CHICAGO Greenhouses: HINSDALE, ILLINOIS.

Cincinnati.

TRADE FALLING OFF.

There was a decided falling off of business the past week. The weather was exceedingly warm, which told on the quality of stock that came in. Roses are getting scarce and the same may be said of carnations. Sweet peas were not quite as plentiful as the previous week, while Lilium. longiflorum were to be had in quantity every day. Shipping trade was a feature; several good-sized funeral orders from out of town relieved this market of quite a lot of stock.

S. A. F. MATTERS.

The time for respite and recreation has arrived and in the different trade journals we read of this and that party taking a vacation. However, very few of the local craft are figuring on vacations at present as the majority are getting things in shape for the convention next month. We realize that it is quite a task to be the hosts of from 1,500 to 2,000 guests and have them leave our city well satisfied, returning to their homes with the impression that the time and money was well spent.

There was a meeting of the local Ladies' S. A. F. at Lou Kyrk's wholesale house last Friday afternoon to map out a programme for entertaining the Ladies' S, A. F. next month. There were so many different ideas advanced that it was deemed necessary to think the matter over and decide upon something definite at the next meeting. Miss Edith Kyrk reported eight new members and she will notify the members by letter where the next meeting will be held.

The Florists' Society will hold its next regular monthly meeting at the zoological gardens on Saturday, July 10 at 4 p. m. This is second last regular meeting previous to the S. A. F. convention and we want all the members who can possibly attend to do so. Tickets of admission will be mailed by the secretary and if any member who has not received his ticket will notify Albert Sunderbruch he will leave one at the gate for you.

Secretary Rudd was a caller last Friday, having come down from Chicago to consult with the local advisory board of the S. A. F. They were in session until 11 o'clock Friday night and a whole lot of work was accomplished.

C. C. Murphy is the first carnation grower to purchase an automobile. Christ says he is getting too old to risk driving thoroughbreds, having been spilled twice in the last six months.

M. Shattls, representing Lion & Co., New York, was a caller the past week, making arrangements with Will Murphy for space and you can bet he picked a dandy spot.

S.

C. A. KUEHN,

Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.

A Complete Line of Wire Designs.

RICE BROTHERS

Wholesale Florists and Supplies.

115 N. 6th St., MINNEAPOLIS, MINN.

Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

Shibeley-Mann Co., Inc.

WHOLESALE DEALERS IN

FLORISTS' SUPPLIES and Cut Flowers

1203 Sutter St., SAN FRANCISCO, CAL.

San Francisco.

Albert O. Stein, of the firm of Stein & Levin, left this city on June 26 for an eastern trip through the principal cities of the Atlantic coast. Mr. Stein is eastward bound to make purchases of goods for the coming decorative season. This is only a small part of the progressiveness of this firm and the first time we have learned wherein a florist of this city has sent east to buy direct from the wholesale houses. Messrs. Stein and Levin are to be congratulated on their success since the fire which threw them both out of employment; without any means or assistance other than their ability they have been able to work and build up a business that is probably unequaled by that of any other florist in this city.

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..

51 Wabash Avenue, CHICAGO.

PRICE LIST

American Beauty	Per doz.
Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75

	Per 100
Killarney, select	$6 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Valley	2 00 to 4 00

Asparagus Plumosus Extra quality, per bunch 75c

Fancy Ferns, per 1000 $ 4.00

All other stock at lowest market rates. Prices subject to change without notice. No charge for packing.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000

Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,

462 MILWAUKEE STREET,

MILWAUKEE, WIS.

H. N. BRUNS,

1407-11 W. Madison St., CHICAGO.

LILY OF THE VALLEY.

Killarney It is acknowledged that we have the finest Killarney that can be found anywhere. A trial order will convince you.

Peonies While the season is almost over, our stock is holding up well, and every bunch will give you entire satisfaction.

Carnations Our Carnations are much better than the average — in fact, are especially good for this season.

Fancy Valley You will always find here.

We are headquarters for **Fancy Ferns**

Complete Stock of Florists', Growers' and Nurserymen's Supplies.

Send for our Weekly Price List unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago.**

Chicago.*

THE SERE AND YELLOW LEAF.

While the glorious Fourth is a holiday, and spread itself over two days this year, the only effect it had on the market was to make things more quiet —if that be possible. Everything is in the sere and yellow leaf with the exception of a few of the summer roses that are given undue prominence because everything else is so poor. Killarney and Kaiserin are the two flowers that stand forth in the limelight and prices held up fairly well on these, but the demand was even less than last week, when (if the bull will be forgiven) there was no demand at all.

The peony situation shows little change. A little stock has been taken out of cold storage, but thousands of dozens still remain and it is an open question as to what will become of the great bulk of them. None of the interested parties are willing to go on record as to the final outcome and, like Micawber, are waiting for something to turn up. While the peony crop this year has been more prolific than in any previous season, and more peonies have been sold, prices have not been as good as last season. This may be accounted for by the fact that while some of the choice varieties were very fine and brought good prices, there was so much poor stock and so much that was almost unsaleable, that the average price was lowered.

Carnations have ceased to be a factor and in fact a great many of the growers are already throwing them out and getting ready for their new planting. There are some fairly good ones on the market that bring from a cent and a half to two cents, but most of them are of very poor quality that sell for almost any offer. Indoor sweet peas, gladioli and Easter lilies are things of the past but there is still a fair supply of the Shasta and yellow daisies. Outdoor flowers are in immense supply with low prices and small demand. A few asters are seen, but not enough to make their presence felt and several growers of this flower state that there will not be such a large supply this year as in former seasons.

Fancy ferns are in great profusion and have a ready sale. Adiantum is the only other green for which there is any call. Taken as a whole the business for the first six months of the year shows a very healthy increase over the first period of 1908 and there seems to be a general feeling that the second half of the year will show a corresponding increase, though this is conjecture, based to a large extent on hope.

NOTES.

Bids for the reconstruction of the greenhouses at Garfield park were opened on Wednesday evening, June 30, at the office of the West Park commissioners and for some reason, not made public, were thrown out and it was intimated that new bids under different specifications would be called for. Lord & Burnham Co., and Hitchings & Co. were the only bidders and there seemed to be some slight feeling of disappointment that no local builders had entered the lists. It is understood that the new specifications will contain a change in the size of the glass used which will increase the expense with no appreciable increase in the efficiency of the houses. No action has yet been taken by the attorney for the board relative to the bringing of suit against the C. E. Carson Contracting Co., who, it is claimed, is responsible for the alleged defects that necessitate the present contemplated reconstruction.

The premium list for the third annual show of the Horticultural Society of Lake Forest, is now out. Many good prizes are offered for all classes of horticultural produce and include a gold medal from the Lord & Burnham Co., New York and Chicago, and special prizes from A. T. Boddington and Harry Bunyard, New York and Vaughan's Seed Store, Chicago. The date of the show is July 21.

Eight new members of the school board having been appointed by the mayor, and several of the reactionaries dropped, it behooves the florists to get busy and see what can be done with the new board relative to having the ban on flowers at school exercises removed.

Ernest Oechslin, who was accidentally shot by the discharge of a rifle that was not loaded in the hands of his nephew last spring, is on the high road to complete recovery and contemplates the building of several new houses next year for the growing of pot plants.

John Thorpe continues in a serious condition. Some heart weakness developed Tuesday of this week, but he had rallied to some extent from this on Wednesday. He is at home, cared for by his three daughters, Margaret, Hattie and Annie, the latter having arrived this week from New York.

The eight new houses at Peter Reinberg's range are nearing completion. The cement bench posts are all in and the glazing is now being finished. These houses will be devoted exclusively to carnations and will almost double the output from this grower.

The attendance at the annual picnic of the Florists' Club should break all records this year as practically all of the retailers, following the lead of the wholesale houses, have agreed to close their places of business at noon on July 22.

Adrian Vanderpoel and wife announce the marriage of their daughter, Henrietta, to John S. Stemper on June 30. Mr. and Mrs. Stemper will make their home at 1813 Springfield avenue after July 15.

John Fuhrmann is remodeling and enlarging his store at 1651 North Clark street. During operations business is going on in temporary quarters a few doors south.

Henry Strail, of A. Lange's, left Friday last for a three months' vacation in Michigan. Mr. Lange will leave July 10 to spend six weeks in the west.

Mount Olson, salesman for the Poehlmann Bros. Co., has the sympathy of the trade in the loss of his son last week by drowning.

Wietor Bros. are not growing any asters this year owing to the fact that all the life has been taken out of the soil and it will be given a rest for a year.

John Smely of Aurora, who met with a painful accident last week, is getting along very satisfactorily and expects to be about again in a few days.

Charlie McKellar, with his wife and a party of friends, took a trip to Milwaukee in his new car last Sunday, making the distance in record time.

Carl E. Taube, manager of the Muskogee Carnation Co., Muskogee, Okla., passed through the city last week enroute to Europe.

John Zech spent a few days this week fishing at Twin Lakes, Wis. Look out for the big fellows on his return.

E. H. Hunt reports that the new Chicago sprayer is meeting with a ready sale and giving general satisfaction.

Bassett & Washburn are showing some very choice Kaiserin roses. Their crop this year is especially fine.

The J. B. Deamud Co. is receiving a fine selection of Japanese iris that show very large flowers.

A. L. Randall is summering at his farm near St. Joseph, Mich.

The Lake Geneva midsummer fair will not occur this season.

Visitors:—Frank Riley of the Iowa Seed Co., Des Moines, Ia.; I. O. Kemble, Jr., and wife, Marshalltown, Ia.; Carl E. Taube, Mgr., Muskogee Carnation Co., Muskogee, Okla.; Ralph Tuttle, Momence; John Karsten, Chattanooga, Tenn.; R. A. Smythe, Benton Harbor, Mich.

* Chicago Florists' Club meeting report will be found on page 1230.

PETER REINBERG

Grower and Wholesaler of

Cut Flowers

1,800,000 Square Feet of Glass.

HEADQUARTERS FOR AMERICAN BEAUTY.

51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO

Telephone, Central 3284.

Quality Counts..

Let us have your next order for **Roses and Carnations** and other Seasonable Flowers.

JOHN KRUCHTEN,

51 Wabash Ave., CHICAGO.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street,
CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central 6004. Catalogue Free.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.

Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

KENNICOTT BROS. COMPANY

WHOLESALE CUT FLOWERS

48-50 Wabash Ave., Chicago
L. D. Phone, Central 466.

We will have anything in the line of
CUT FLOWERS and GREENS
that you may want if anybody has it at Chicago market prices on day of shipment.

"The Busiest House in Chicago."

J. B. DEAMUD CO.

51 Wabash Ave., Chicago.

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Peonies, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

WM. W. ABRAHAMSON

Florists' Purchasing Agent.

For buyers of recognized standing, I will undertake to save money, as well as obtain the most satisfactory stock the entire market affords. Write me about it.

21 Wabash Avenue, CHICAGO.

Wholesale Flower Markets

CHICAGO, July 7.

Roses, Beauty, extra select		3 00
" " 30 in		2 50
" " 24 in		2 00
" " 20 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select		4 00@ 6 00
" " medium		3 00@ 4 00
" Chatenay, Sunrise		3 00@ 6 00
" Golden Gate, Uncle John		3 00@ 6 00
" Kaiserin		3 00@ 6 00
" Kate Moulton		3 00@ 8 00
" Killarney, select		6 00@ 8 00
" " medium		4 00@ 5 00
" Mrs. Marshall Field		4 00@ 6 00
" Mrs. Potter Palmer		4 00@ 8 00
" Perle		6 00@ 8 00
" Richmond, extra select		6 00@ 8 00
" " medium		4 00@ 5 00
Carnations, select fancy		1 50
" common		1 00
Cattleyas	per doz.	6 00
Daisies		75@ 1 00
Forget-me-nots		1 00
Lilium Harrisii per doz. 1 50@2 00		15 00
Lily of the Valley		3 00@ 4 00
Peonies, select		2 00@ 6 00
Sweet Peas		35@ 75
Adiantum		75@ 1 00
Asparagus Plum, strings	each	50@ 60
" sprays		2 00@ 4 00
" Sprengeri		2 00@ 00
Ferns	per 1000	2 50
Galax, green per 100	15; per 1000	1 00
" bronze per 100	15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax strings	per doz.	1 50

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

WEILAND AND RISCH

Wholesale Growers and Shippers of
CUT FLOWERS
59 Wabash Ave., CHICAGO.
Phone Central 879.
Write for our wholesale price list.
WHOLESALE FLORISTS

Vaughan & Sperry,

Wholesale Florists,

52 and 54 Wabash Ave., CHICAGO.
WRITE FOR SPECIAL PRICES

Always mention The American Florist when you order stock.

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.

Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

The Benthey - Coatsworth Co.

35 Randolph St. Wholesale Florists CHICAGO.

Send Advts. Early for Best Display and Position.

NOTICE!

Manhattan Flower Market WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

LESS EVIDENCE OF GLUT.

The business of the past week was light but there was less evidence of glut and congestion than during the week before. The wholesale district has settled down to accept the situation and little grumbling is heard. Much poor stock in roses and carnations is coming in, an inevitable result of hot weather. A few asters are on the market but scarcely enough as yet to class them as factors in the trade. Notwithstanding the great exodus from the city on Saturday, considerable stock moved, but at low prices. The speculators and peddlers as a rule are now crying their wares at the nearby summer resorts and it cannot be denied that the push and enterprise of these men sell a lot of stock that would otherwise be lost.

July 5.—Arrivals are light, likewise the demand. But few good American Beauty roses are coming in and the price has gone a little higher. On account of the Fourth being celebrated today no business of any account is expected, peddlers being about the only customers in the wholesale district. The weather continues very cool and comfortable. A few asters are coming in but not in sufficient quantity or of a quality that warrants quotations of prices.

NOTES.

Geo. Vladios and wife, who conduct a retail store at Eighty-sixth street and Columbus avenue, sailed last week for a visit to Europe. George first saw the light of day somewhere near old Athens, while Mrs. Vladios was born on John Bull's island. Both countries will be visited, and they will return in time for the fall business.

Charles H. Brown, a well known retailer of 412 Columbus avenue, will, about October 1, open another store in the Belnord apartments building, Eighty-sixth street and Broadway. This is said to be the largest apartment house in the world. The Columbus avenue store will be carried on as formerly.

C. A. Ladiges, who has two retail stores on Amsterdam avenue, sailed July 1 on the North German Lloyd steamer, George Washington, for an extended visit to the "Vaderland." He will attend a family reunion in Hamburg, where his aged parents reside and expects to thoroughly enjoy himself.

The summary dismissal from the office of police commissioner by Mayor McClellan, of General Theodore Bingham, has caused great indignation. General Bingham in his capacity as an army officer was formerly superintendent of buildings and grounds (parks) at Washington, D. C.

A number of the Brooklyn retailers attended the Florists' Club outing at Whitestone park, noteworthy being D. Y. Mellis, S. Masur, Albert Laretz and A. Hanig. The Dailledouze brothers, Louis Schmitz, Sr., David McKenzie and others, represented the growers.

It seems that early closing and Sunday closing are bound to come. Several wholesale stores are now closing at 4 p. m. on week days. On Sunday, July 4, the stores of Traendly & Schenck, A. H. Langjahr and Wm. S. Allen were not open for business.

Young & Nugent of Twenty-eighth street had an immense amount of high class work for the funeral of John R. Considine, former proprietor of the Hotel Metropole, who died on June 26.

Paul and Henry Dailledouze sailed on July 3 for an excursion to the maritime provinces. They will visit Halifax, St. John and other points of interest. All wish them a happy voyage.

One of the finest pieces of bedding work to be seen about this city was recently executed by W. E. Nilsson of Two Hundred and Thirty-third street for Woodlawn cemetery.

A. L. Barnett, after an absence of almost two years spent in the west, has returned to this city and will continue to represent Reed & Keller.

A full account of the Florists' Club outing is given in Our Pastimes department on page 1252.

Baltimore.

NO GOOD STOCK.

The "rare days" of June with us were of rare torrid heat; there was nothing else rare or underdone about them. Yet there was also a torrential rainfall. The total rainfall for the month was 4.38 inches, which is .60 of an inch above the average for the month for 39 years. There were only four clear days in the month, and seven thunderstorms. There was hail on two occasions, but not heavy enough to cause any damage so far as reported. The highest temperature was 99°, but the humidity was markedly great, and the weather people say the cloudy and partially cloudy days prevented a still higher range of the mercury. In time for the Fourth of July holidays there was a sudden change and Saturday, Sunday and Monday were cool and clear, with bright skies and invigorating breezes. The parks and country resorts were crowded consequently with thousands of visitors. Under such weather conditions trade has not proved very satisfactory. A good many flowers are coming in, but in some cases it would be as well to relegate them to the dump, that being their final disposition, their quality, both roses and carnations, being far from good. Indeed, practically, it has been difficult to get first class blooms of any sort. Considering the unpropitious meteorological conditions, the demand has been fairly maintained.

A movement is on foot to promote the retiring in the city of the unsightly board fences which at present enclose most residential lots and the substitution of green hedges. A good many advantages are claimed in favor of the innovation—such as the more sanitary conditions which the absence of fences would encourage, better facilities for police protection, the riddance of the abominable and expensive rat nuisance, the refreshing views from back windows of the houses of the green shrubbery instead of the forbidding aspect of bare fences or even when whitewashed. This innovation would lead also to the planting in the yards of more shrubbery and flowers, it is thought, and gradually transform the present unkempt condition of the majority of city backyards. The effect upon travelers, whose railway view of a city is almost always of their backdoors, alleys and fences, would be to give more favorable impressions of one so treated. A number of property holders, and especially the women who are property holders, approve the plan with enthusiasm. Some ladies who own property on Bolton street have substituted green hedges for the lateral fences which divided four city lots and these are pointed to as examples of the happy results obtainable. Privet, which is of rapid growth, makes a dense and glossy barrier and is very reasonable in price, is recommended for the object in view.

Richard A. Vincent, vice-president for Maryland of the Society of American Florists, has issued an appeal to the craft to make a large and representative turnout at the annual convention in Cincinnati, August 17-20, in view of the prominence in horticulture which the state has acquired in the past few years. It is impossible at this early day to ascertain who are likely to attend. S. B.

25th Annual

Trade Exhibit

OF THE

Society of American Florists

and Ornamental Horticulturists

TO BE HELD

AT CINCINNATI

Aug. 17th to 20th (inclusive)

For space and rates apply to

WM. MURPHY,

311 Main St., CINCINNATI, O.

St. Paul.

THE ROSE SHOW.

The exhibition hall in the Auditorium proved none too large for the Minnesota Rose Society's annual flower show which opened there June 25. There were 227 entries, some of which comprised many vases and jars of flowers, while others were limited to a single blossom. Most of the exhibitors declared that the exhibition anticipated by a few days the height of the rose season. But the peonies were still in their first flush of beauty and so many fine specimens have probably never been assembled here before. The display of perennials of all current varieties was large and interesting, comprising some beautiful pyrethrum from A. H. Stem's Dellwood garden. Iceland poppies and a large display of Siberian and Spanish iris from Miss Helen Bun's garden, Rocky Mountain columbine from the garden of Mrs. T. L. Wann at Dellwood, and smaller exhibits from the city gardens. There were in all 35 exhibitors, all of them members of either the Minnesota State Rose Society or the Institute Gardening Club.

1887 Telephone 167 Madison Square. 1909

J. K. ALLEN, Wholesale Commission Florist, Established 1887.
106 West 28th Street, NEW YORK CITY.

Open the year around to receive shipments of Cut Flowers.
Open Every Morning at 6 a. m. Prompt Returns To Shippers

Traendly & Schenck,
WHOLESALE FLORISTS,
44 West 28th Street, New York City.
Phones, 798 and 799.

CHARLES MILLANG Wholesale Florist
On the ground floor of New York Cut Flower Co. and Cut Flower Exchange,
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NEW YORK. July 7.	Per 100
Roses, Beauty, special	15 00@20 00
" " fancy	10 00@12 00
" " extra	6 00@ 8 00
" " No 1	2 00@ 3 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	3 00@ 4 00
extra and fancy	1 50@ 2 00
No. 1 and No. 2	50@ 1 00
" Kaiserin Aug. Victoria	50@ 6 00
" Killarney special	4 00
extra and fancy	1 00@ 1 50
" Richmond	50@ 4 00
Carnations, fancy and special	1 00@ 1 50
" common	25@ 50
Callas, per doz.	40@ 50
Cattleyas	10 00@35 00
Coreopsis	25@ 40
Daisies	50@ 1 00
Feverfew, per doz.	50@ 60
Gladiolus	5 00@ 6 00
Gardenias, per doz.	1 00@ 3 00
Lilium Longiflorum	1 00@ 2 00
Lily of the Valley	1 00@ 2 50
Snapdragons (Antirrhinum) doz.	15@ 35
Sweet Peas, per 100 bunches	50@ 3 00
Asparagus, doz. bunches	1 50@ 2 50
Smilax, per doz. strings	75@ 1 50

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Telephones: 3532 and 3533 Madison Sq.
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48 West 28th St., NEW YORK.
Telephone 3870-3871 Madison Square.

Meriden, Conn.

Geo. E. Butler reports that in spite of the hard times business has been very fair. Good bedding stock has sold better than ordinarily.

J. A. Greenbacker has started a new 90-foot modern house.

HARRISONBURG, VA.—J. E. Plecker, formerly of Staunton, is building greenhouses here and will soon be ready to start the growing of cut flowers and pot plants.

ST. CATHERINES, ONT.—The annual rose show of the Horticultural Society was opened in the Armory June 25. The display of flowers was larger than at any previous show held by the society. J. Horace McFarland, who has made himself conspicuous in Canada and the United States by his lectures on "Save Niagara Falls," and as president of the American Civic Association, was in attendance as the guest of William B. Burgoyne, president of the society.

HAMILTON, O.—Wm. Lodder, of Lodder & Son, has just celebrated the anniversary of his birthday.

FREEPORT, N. Y.—Three boys, all about 15 years of age, were arrested for breaking into Clarence Anker's retail store June 25.

Philadelphia.

SUMMER DULLNESS.

The usual summer dullness prevails. A little doing in the stores in the morning for the funerals or the steamship and seashore trade and a little shipping for the night expresses winds up the business for the day. There is plenty of stock but the quality is poor the extreme hot weather of the latter part of June being particularly hard on roses. My Maryland is in good shape and there are a few American Beauties of the local stock that are passable but Bridesmaid and Killarney are hardly worth offering. White roses of any kind have been very scarce the past week, the Carnot coming in being eagerly grabbed up. Carnations are fairly plentiful but are getting small and much off color. There are plenty of gladioli and asters are coming along nicely, a few very fine flowers being seen. Sweet peas are in demand but are getting low in quality. Lily of the valley is scarce, the growers apparently working off their weak pips during the dull season. The feature of the past week was the large demand of flowers for the Durham funeral. "Dry" Durham, as he was called, was the great boss politician of the city and when he died all the large and small political lights felt it incumbent on them to send flowers. According to Wm. Graham, of the Habermehl staff, who arranged the pieces, there were 143 separate designs and clusters. These ranged in price from $5 to as high as $300, one large orchid and lily of the valley wreath being valued at the latter figure. Many of the designs were elaborate and well made, while others were far from being a credit to the trade. There were ladders of life, clocks, vacant chairs, gates ajar, broken columns, urns, setting suns, wreaths flat, standing, and on easels. One standing wreath was so large that it had to remain in the back yard, as they could not get it through the door. There were many very beautiful wreaths and elaborate clusters. Orchids were largely used, as were American Beauty roses. The total value was estimated to run between $4,000 and $5,000. After the funeral many of the designs were sent to the hospitals. Such disposition of funeral flowers is past our understanding. Crosses and wreaths, gates ajar, broken columns and the like do not carry a very cheerful message to the sick. "Better wait until I am gone" would be the words of the sick man who would have one of these placed near his cot. When funeral flowers have filled their mission at the house of the deceased they should either proceed or follow the body to the cemetery and there finish their short life of usefulness.

FLORISTS' CLUB MEETING.

The feature of the July meeting of the Florists' Club, July 6, was the paper prepared and read by Edwin Lonsdale on "The Adornment of the Lawn," for which he received the thanks of the club. This was a very interesting essay, full of suggestions and up-to-date ideas. It will appear in the next issue of the AMERICAN FLORIST. Convention matters were taken up and there bids fair to be large delegations from this city. Bowling teams of ladies and gentlemen to represent the club in the various tournaments are working up enthusiasm and hope to make a good showing at Cincinnati. Hotel and pool room committees were appointed and directed to make reports at the August meeting.

NOTES.

Robert Crawford, Jr., 235 South Eleventh street, will open a branch in October at Fifty-second and Market, in one of the stores which Jacob Becker is erecting to take the place of his greenhouses. Mr. Becker was entirely surrounded by stores and they being in such demand he has torn down the greenhouses and will erect stores in their stead. Mr. Crawford's is to be a fine, modern, up-to-date store with a greenhouse 80 feet long in the rear. He expects to open in October with his son William in charge. He is also remodeling his store on Eleventh street, which, when completed, will give him additional room.

John E. Andre of Doylestown has concluded to continue the business of his father, recently deceased. It was first offered for sale but will now be continued and run as before except that the houses are now all planted with Killarney roses. It is an up-to-date place in every respect, the flowers being handled by the Leo Niessen Co. K.

Boston.

VACATIONS IN ORDER.

The local markets and shops show summer quietude and vacations seem to interest everybody more than anything else. Funeral work is coming in slowly and outside of this there is absolutely nothing doing. Stock is in poor condition and anything that is really first class is quickly sold. Roses are about the poorest proposition. Kaiserin is in grand shape, easily eclipsing anything in the way of colored roses. American Beauty is practically out of the market, also Richmond, while Killarney is not much better. A lot of good carnations are being received but $1 per 100 is the best price. Thousands of ordinary quality are disposed of at prices from $2.50 to $5 per 1,000. Sweet peas are poor.

BOUND FOR EUROPE.

P. N. Carbone, accompanied by Mrs. Carbone, sailed on the steamship Romanic July 2, for a summer trip to Europe which will be one of business and pleasure. Mr. Carbone has leased an attractive store at 342 Boylston street, one block from his present location, which will be occupied September 1, after extensive alterations now being attended to are completed. This is one of the best locations in the city and should be a successful step for this firm.

Martin Tuohy, the mayor of South Boston, and incidentally the leading florist of the district, sailed during the week for an extended trip to Europe. From there he has planned a hunting expedition through Africa, returning late in the fall. Martin was given a royal send-off by his numerous friends, many of whom gathered at the dock to say a last good bye.

A. Leuthy, the plant specialist, is booked for his regular trip to Europe and will sail the coming week.

David Welch, of the wholesale house of Welch Bros., has the European fever and will sail this month.

NOTES.

The public spiritedness of our citizens was again exemplified when, through the generosity of Larz Anderson and wife of Brooklyn, the public was invited to inspect the wonderful estate created and maintained by this couple, and upon which they spend their summers. For two days the grounds were visited by thousands of interested sightseers. The chief centers of interest were the Italian and Japanese gardens, the duplicates of which are unknown in this part of the country, the models being secured abroad and erected upon the estate at an enormous expense.

The annual exhibition of the North Shore Horticultural Society was held on the grounds of the Essex county club, Salem, June 30 and July 1. The exhibition was the most successful ever undertaken and the displays possessed unusual merit. B.

Chicago Florists' Club Meeting.

There was an exceptionally large attendance at the Florists' Club meeting July 1, for a hot summer evening. President Asmus was in the chair and some 30 members made themselves comfortable about the room, President Asmus graciously permitting coats off. One of the matters of chief interest was the election of a secretary, the recently adopted rules providing a single secretary in place of the old recording and financial secretaries. Louis Winterson and Frank Johnson were the nominees. As both gentlemen had expressed their disinclination of assuming the role both are to be congratulated, the former at having his wish gratified and latter at being given the job. A new board of three trustees was elected to succeed the old board of five; Leonard Kill, F. F. Benthey and H. N. Bruns were chosen. Chairman P. J. Foley of the transportation committee made a humorous report, the gist of which was that the Monon route was the one decided upon for transportation of the party going from this city to the S. A. F. convention at Cincinnati and that this party would be royally entertained all the way with special music and other features, most of which were left to a well whetted imagination. The hour of leaving after some discussion was left entirely to the committee. W. N. Rudd spoke in favor of a night trip with an evening's entertainment in the city for the out-of-town delegates. He said there would be a party of 15 from Denver with a nice delegation from the northwest, including Omaha and Milwaukee.

Chairman Ed Enders of the Good of the Club committee reported concerning the arrangements under way for a picnic July 22 to be given in the grove adjoining Riverview park. From the glowing report made it would appear that this picnic would eclipse all former ones and its easy accessibility from the heart of the city and the fact that all of the wholesale dealers and most of the retailers have indicated their intention of closing their stores at noon on that date ought, with good weather and the many agreeable features planned, to guarantee a large attendance and a royal time.

Secretary Rudd of the S. A. F. was called upon to speak of the coming Cincinnati convention. He urged a large local delegation and spoke of the prospect of an unusually interesting gathering. He said that the exhibition hall would be the largest any S. A. F. convention has yet had. The well arranged programme, the hotel accommodations of the convention city, as well as the fine bowling team promised by the club, he urged, should induce every member to go.

President Asmus spoke of the sad accident to Joseph Smely, of Aurora, mentioned in our last issue, and T. E. Waters was appointed a committee of one to convey to Mr. Smely a basket of fruit voted him by the club. Two new members were elected: M. D. Neely, 144 Milwaukee avenue, and F. C. Morris of Hinsdale. The following were proposed for membership: James Curran, 2909 Archer avenue; August Dressel, 75 Southport avenue; T. C. Yarnall, representative of the AMERICAN FLORIST, and Frank E. Benthey, W. F. Hoerber and Fred Hoerber of Des Plaines. In accordance with a motion made at the last meeting, President Asmus appointed a committee to print the revised by-laws, together with the names of former presidents, the present roll of members, etc., this committee consisting of Frank Johnson, of the A. L. Randall Co.; Frank Pasternik, of the Ernst Wienhoeber Co., and H. C. Lenington, of THE AMERICAN FLORIST.

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Worcester, Mass.

Business continues good for this time of the year, consisting of funeral work and small wedding decorations. The larger part of the growers are busy planting both in and outdoors; this has been an exceptionally good year for bedding plant sales, nearly all of the plants being sold. Carnations are doing better this year in the field than usual, very few plants being lost from stem rot, probably on account of the dry weather we have had for the past four weeks.

While outdoor crops are good in most cases, due largely to the cold late spring, if there is not some rain in the next few days quite a lot of stock will suffer from the effects of the prolonged drought as well as insect enemies, which are quite numerous this year.

H. F. A. Lange is doing some extensive repairing this season on some of his oldest houses.

The rose show of the Worcester county Horticultural Society held June 24 was exceptionally good. The roses were very good, the campanulas, foxgloves and dianthus were in excellent condition. The feature of the exhibition was a display of peonies by T. C. Thurlow of West Newbury, there being between 60 and 70 varieties in the group. Other exhibitors of peonies were: Mrs. J. F. Record, James Edwin Draper, Mrs. Edward Warren, Mrs. S. E. Fisher. The exhibit of strawberries was the best ever shown in the hall, both in quantity and quality. The hall was open from 3 to 9 and there was a large crowd present from the time the door opened until it closed. The awards were as follows:

Roses 12 blooms.—W. A. L. Bazeley, first; M. J. Whittall, second; Addison L. Bemis, third; Charles R. Fish, fourth.

Roses 6 blooms.—Mrs. J. C. Wheeler, first; W. A. L. Bazeley, second; M. J. Whittall, third; A. L. Bemis, fourth.

Twenty vases hardy plants.—M. J. Whittall, first; Mrs. J. C. Whitin, second; W. A. L. Bazeley, third.

Vase rose, one color.—M. J. Whittall, first; Mrs. J. C. Whitin, second; Clifford H. Wilson, third.

Mixed.—M. J. Whittall, first; Mrs. J. C. Whitin, second; Mrs. F. W. Hixon, third.

Campanula Media.—Charles R. Fish, first; L. C. Midgley, second; Addison L. Bemis, third.

Dianthus barbatus.—C. R. Fish, first; Mrs. S. E. Fisher, second; W. A. L. Bazeley, third; Mrs. Percy G. Forbes, fourth.

Foxglove.—C. R. Fish, first; W. A. L. Bazeley, second; Harriott B. Andrews, third; J. E. Draper, fourth.

Gratuities.—Delphinium, A. L. Bemis, C. R. Fish, Mrs. A. E. Underwood. Peonies, J. P. Porter, Mrs. E. Warren, J. E. Draper, Mrs. J. Frank Record. Hardy perennials, C. R. Fish. Hardy pinks, Mrs. E. J. Whitney.

Wholesale Flower Markets

PHILADELPHIA, July 7.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	3 00@ 6 00
" " extra	8 00@12 00
Carnations	2 00@ 3 00
Asters	1 00@ 2 00
Cattleyas	50 00@60 00
Gardenias	15@ 25
Gladiolus	6 00@10 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	75@ 1 00
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, July 7.	Per 100
Roses, Beauty, specials	10 00@15 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	1 00@ 4 00
" Chatenay	1 00@ 4 00
" Killarney	1 00@ 4 00
" Richmond	1 00@ 4 00
Carnations	1 00@ 2 00
Iris	1 00@ 3 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Pansies	50
Peonies	2 00@ 4 00
Sweet Peas	25@ 50
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	15 00

BOSTON, July 7.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

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Carnations, Roses, Beauties,

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Montreal.

FUNERAL WORK PLENTIFUL.

Trade was considerably quieter last week; the schools are all closed and most people gone to the country or seaside. The wedding decorations are still the most important part of the business. There has been some very elaborate ones lately, notably the one at the Rawlings wedding; the decorations were furnished by Harris & Hopton. This was the biggest of the season, immense quantities of laurel and white lilacs being used with great skill. The demand for funeral work has been quite active lately; automobile accidents and drownings seem to stand on the order of the day amongst the wealthy. Roses under glass perhaps will be less grown than last year. There is an increased demand for pot plants during the winter months, especially at the holidays and it is pretty difficult to produce them as good as the western specialists.

JUNE FLOWER SHOW.

The June show of the Gardeners' and Florists' Club came off very successfully. The prize winners were as follows:

Twelve pansies.—S. Vril, first; J. Pidduck, second; J. Luck, third.

Twenty-five pansies.—J. Luck, first; G. Miles, second; Hall & Robinson, third.

Six peonies.—J. Pidduck, first; S. Vril, second; Hall & Robinson, third.

Six iris.—J. Luck, first; W. S. Watts, second; G. Miles, third.

Twenty-five peas.—Hall & Robinson, first.

Six roses, red.—Hall & Robinson, first.

Six roses, pink.—Hall & Robinson, first.

Six carnations, pink.—J. Luck, first.

Vase iris.—R. Burrows, special prize.

Vase peonies.—R. Burrows, special prize.

Vase double nasturtium.—J. Luck, special prize.

One Gloxinia.—G. Miles, first.

The judges were John Walsh and Charles Eddy.

L. J. Forget Ste. Anne de Belleuve is building a U Bar greenhouse, and Sir William Van Horne builds two conservatories of the same make.

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July 13.

Saxonia (C.) 5 p. m.—Boston-Liverpool, Boston Pier, Cunard wharf, East Boston.
Ivernia (C.)—Liverpool-Boston.
New Amsterdam (H. A.) 10 a. m.—New York-Rotterdam, Pier foot of 7th St., Hoboken, N. J.
Kronprinzessin Cecilie (N. G. L.) 10 a. m.—New York-Bremen, Pier foot of 2nd St., Hoboken, N. J.
Kaiser Wilhelm II (N. G. L.)—Bremen-New York.

July 14.

Mauretania (C.) 10 a. m.—New York-Liverpool, New Pier 54, North River foot of 14th St., New York.
Teutonic (W. S.) 9:30 a. m.—New York-Southampton.
Haverford (Am.)—Liverpool-Philadelphia.
President Lincoln (H. A.) 3 a. m.—New York-Hamburg.

July 15.

Corsican (Al.)—Liverpool-Montreal.
La Touraine (Fr.) 10 a. m.—New York-Havre, Pier 42 North River, New York.
Cretic (W. S.)—Genoa-Boston.
Cleveland (H. A.)—Hamburg-New York.
Bulgaria (H. A.) 3 p. m.—New York-Genoa, Pier foot of First St., Hoboken, N. J.
Prinz Friedrich Wilhelm (N. G. L.) 10 a. m.—New York-Bremen, Bremen Piers foot 2nd and 3rd Sts., Hoboken, N. J.
Breslau (N. G. L.)—Bremen-Baltimore.
Hellig Olav (S. A.)—Copenhagen-New York.

July 16.

Tunisian (Al.) 1 p. m.—Montreal-Liverpool.
Celtic (W. S.)—Liverpool-New York.

July 17.

Pomeranian (Al.)—Boston-Glasgow.
Furnessia (A.) 10 a. m.—New York-Glasgow, Pier No. 54 North River, foot of West 24th St., New York.
Calabria (A.)—New York-Naples.
New York (Am.) 10 a. m.—New York-Southampton, Pier 15, North River, foot Fulton St., New York.
Carmania (C.) 10 a. m.—New York-Liverpool, Piers 51 and 52 North River, foot of Jane St., New York.
Lusitania (C.)—Liverpool-New York.
La Provence (Fr.)—Havre-New York.
Floride (Fr.)—New York-Havre, Pier 84 North River, foot of W. 44th St., New York.
Lapland (R. S.) 11 a. m.—New York-Antwerp, Pier 14 North River, foot Fulton St., New York.
Zeeland (R. S.)—Antwerp-New York.
Baltic (W. S.)—New York-Liverpool.
Cincinnati (H. A.) 10 a. m.—New York-Hamburg.
Noordland (H. A.)—Rotterdam-New York.
Prinzess Irene (N. G. L.) 11 a. m.—New York-Genoa, N. G. L. Piers, Hoboken, N. J.

BOSTON, MASS.—Martin Edward Touhy has gone on his bi-annual visit to relatives in Ireland.

PEORIA, ILL.—Ed Dusinberry, formerly foreman of the Kuhl greenhouses, has been visiting here.

BAY CITY, MICH.—H. F. Potratz and C. B. Schweers, conducting the Schweers & Potratz Floral Co., have dissolved partnership and the former is conducting the business under the name of the H. F. Potratz Greenhouses.

Alexander McConnell,
571 Fifth Ave., Windsor Arcade.
NEW YORK CITY.

TELEGRAPH Orders forwarded to any part of the United States, Canada and all principal cities in Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL. Western Union Code.

Detroit, Mich.

John Breitmeyer's Sons
Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.
We cover all Michigan points and good sections of Ohio, Indiana and Canada.

St. Paul, Minn.

HOLM & OLSON,
ST. PAUL.
THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Los Angeles, Calif.

J. W. Wolfskill,
FLORIST.
Telegraph Orders A Specialty. **218 W. 4th St.**

St. Paul, Minn.

L. L. MAY & CO.
Order your flowers for delivery in this section from the
Leading Florists of the Northwest

San Francisco, Calif.

J. B. BOLAND
Successor to Sievers and Boland.
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.
Will take proper care of your orders in **Wisconsin.**

The Seed Trade.

American Seed Trade Association.

I. C. Robinson, Waterloo, Neb., Pres.; M. H. Durvea, New York, First Vice-Pres.; F. W. Bolgiano, Washington, D. C., Second Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas.; Leonard H. Vaughan, Chicago, Asst. Sec'y. Twenty-eighth annual convention, June, 1910.

CALLA bulbs are a short crop in California.

EARLY shipments of French bulbs are now traveling on the water.

THE A. C. Kendel Seed Co.'s store in Cleveland, O., is being remodeled and rebuilt.

ONION SETS at Chicago seem to be doing very well and at date promise a good crop.

W. ATLEE BURPEE and his son, David Burpee, returned to Philadelphia June 28 and report a terribly hot trip across the desert.

OKLAHOMA CITY, OKLA.—The Western Seed Co.'s bankrupt stock will be sold, July 12, in this city. There is a fresh stock of seed and a complete line of florists' supplies, with large refrigerators.

THE Detroit Free Press of July 1, referring to $800,000 capitalization of the D. M. Ferry & Co., says that $25 shares are estimated to be worth $250 each and says there is strong sentiment for larger capitalization.

COLUMBUS, O.—The Livingston Seed Co., in order to meet the demand for larger quarters, has closed a long-time lease for a new four-story brick building in East Chestnut street. The company will occupy the entire building with its seed and mail order departments.

Maurice Denaiffe.

The accompanyng portrait is of Maurice Denaiffe, the junior member of the firm of Denaiffe & Son, Carignan, France, which was established in 1810. He is at present making a tour of the eastern section of the United States, this being his first visit to this country. His house stands high in France as growers on contract. It also does an extensive mail order seed business, issuing 1,000,000 catalogues by mail annually and is one of the largest grass seed houses in France. Mr. Denaiffe's grandfather, who is still living, and his father, have both been decorated with the Legion of Honor for their meritorious work in agriculture and horticulture in their native land.

Braslan Seed Growers' Co.

Lettuce Onion, Sweet Peas.

Growers For the Wholesale Trade Only.

SAN JOSE, CALIF.

Government Seed Contract for Distribution Spring of 1910.

BY BURNET LANDRETH.

If the National Department of Agriculture is determined to give out a so-called seed-growing contract, I would just as soon see my respected acquaintance, A. J. Pieters, get it as any person, yet why should anyone get a growing contract when the seeds later on could be purchased in the open market and their absorption be a benefit to the seed business? It will not do to allege that without an advance contract varieties cannot be obtained, and that consequently they must be grown expressly, because the

Maurice Denaiffe.

Of Denaiffe & Son, Carignan, France.

sorts actually ordered are not new introductions, only common seeds of hackneyed varieties, obtainable at any period of the year and from many sources.

A brief review of the so-called growing contract may be interesting as indicating what families of vegetables, in the opinion of the wise heads of the Bureau of Agriculture, at Washington, are the things most wanted by the hungry farmers of the United States, men who are eager for Brussels sprouts, endive and kohl rabi, men who dream about Brussels sprouts, endive, kohl-rabi, almost with the same burning impulse as politicians cry out for an appropriation and the flag. The following is the list of seeds appearing as wanted on the list of the Department of Agriculture, dated February 1, 1909:

	Bushels.
Dwarf beans	594
Pole beans	628
Lima beans, dwarf and pole	800
Corn	2,006
Peas	1,314
	Pounds.
Beet	6,053
Carrot	11,819
Collards	1,360
Cucumber	2,328
Kale	2,720
Lettuce	27,830
Muskmelon	3,940
Watermelon	5,112
Mustard	1,316
Okra	3,400
Parsley	5,134
Parsnip	12,850
Radish	56,667
Squash	2,375
Tomato	2,214
Turnip	15,364
Brussels sprouts	2,974
Endive	1,506
Kohl Rabi	2,947

No sane seedsman will believe for an instant that these seeds will all be of crop 1909. The peas, beans and corn probably will be, although not all necessarily so, but of the small seeds it is not likely one-tenth will be new crop, 1909, whether American or imported. Considerable portions of everything no doubt will be imported, and most imported seeds may be of old crop seed which could be bought in midsummer or autumn just as well as they could be engaged last spring before any appropriation was made by congress for the distribution of spring 1910, or, if the particular varieties named could not have been procured, other sorts as good, or better, could have been, but no doubt many of these seeds were on hand, and no doubt there will be cheap substitutes enough to please the band.

It is really interesting to read the items governing the bid. Take item 6, for example, where in the language of the circular: "The department's representatives shall at all times inspect the growing crop, wherever it may be." The reader will notice that several representatives are thus mandatorily provided with "joy rides," even as far as California, for does it not state "wherever the crop may be." Oh, what a good time!

In article 7 is the stipulation that "the contractor, may upon written order from the department, substitute any other variety of seed in place of the variety contracted." This looks like a big opportunity—the contract is mush—just mush to be juggled with.

Article 3 states in the choice English of the circular: "Bids to be made upon the total quantity of seed, and not upon 'individual' items." This provision cuts off many reputable seed growers who might be bidders on specific items. More than this, it is rumored that only eight or nine parties were favored with being asked to make bids, and it would be interesting to know who were the chosen seedsmen.

Is it not time that the American seed trade should in some way adopt measures to put a stoppage to this most ridiculous distribution of free seeds? On the one hand a restraint of trade, and on the other hand a parody on national management, a practice which brings the Department of Agriculture into disrepute and satire, and which would be deeply humiliating to any secretary of agriculture possessing the attributes of those other men who occupy like positions

(CONTINUED ON PAGE 1236.)

Peas AND Beans

Alfred J. Brown Seed Co.,

Growers for the Wholesale Trade,

GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.

The Largest Seed Growers on the Pacific Coast.

ONION, LETTUCE, SWEET PEAS.

Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

CYCLAMEN SEED CROP 1909.

Just Look at this Plant! This is a sample of our seed-bearing plants, **and only one year old.** You cannot equal the strain elsewhere. Our specialty for 36 years.

Have you tried **"Our Own"** Giant Salmon King, the finest salmon grown.

Personal attention given to the hand fertilization of all seed blooms.

We are anxious to serve you well.

Seed per oz. on application. List free.

Primula Sinensis

In seven distinct colors as selected for market.

Terms net cash with order.

ST. GEORGES NURSERY CO.,

Floriculturalist Trade Seed Growers

HARLINGTON, Middlesex, ENG.

P. S. Regents Park Gold Medal and Certificates, etc. from Royal Horticultural Society.

S. M. Isbell & Co.

Jackson, Mich.

Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,

Correspondence solicited.

☞Write for Prices on Surplus Stocks for☜ Immediate Shipment.

STOCK SEED

For Winter Blooming. Our strain of **Double Branching Stocks** is exceptionally true. About **90 per cent.** Double Flowers

In colors,.....⅛-oz. 60c; oz. $4.00
Pure white.....⅛-oz. 75c; oz. 5.00

H. E. FISKE SEED CO.,

Faneuil Hall Square. BOSTON, MASS.

Waldo Rohnert

GILROY, CAL.

Wholesale Seed Grower

Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.

Correspondence solicited.

PANSIES

THE JENNINGS STRAIN New Crop Seed now ready. My own saving from finest selected stock. Large flowering in great variety of fancy colors.

Finest mixed, 1 oz., $5.00; 3 oz., $12.00; ½ oz., $2.50; pkgs. of 4000 seeds $1.00; ½ pkg., 50 cts.

E. B. JENNINGS, Southport, Conn.

Lock Box 254. Cash with Order.

Grower of the Finest Pansies.

H. WREDE,

LUNEBURG, GERMANY

PANSY SEED

175 First Prizes, the highest awards Chicago, Paris, London, Dusseldorf

1000 seeds, finest mixed.. 25c
1 oz. " " ..$2.25

☞ Price list on application. Cash with order

The Everett B. Clark Seed Co.

Growers for the Trade.

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches; Michigan, Wisconsin.

MILFORD, CONN.

O. K. Quality

BERMUDA **ONION SEEDS**

VARELA'S

Contract **NOW** for 1910 delivery. No seedsman is well equipped without **my seeds.**

FEDERICO C. VARELA, Grower and Exporter **Teneriffe, Canary Islands.**

Seed PANSY Seed

Brown's Extra Select Superb Giant Prize Pansies,

awarded medals wherever exhibited. Flowers are of enormous size; in beauty and color they are incomparable. Giant yellow with dark eye and pure white, in separate colors. New 1909 seed of my own growing.

3,000 seeds	$1 00	1 oz.	$ 5 00
¼ oz	1 50	¼ lb	14 00
½ oz	2 50	½ lb	25 00
		1 lb	$50 00

Cash with order.

PETER BROWN, Lancaster, Pa.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

MICE PROOF SEED CASES

SEND FOR BOOKLET.

HELLER & CO., Montpelier, O.

GIANT PANSY SEED

THE KENILWORTH STRAIN

is unsurpassed: the immense flowers 3½ to 4-in. are of perfect form and substance; every tint and shade is produced in striking combination and endless variations of beautiful colors and markings: it is the result of years of selection, it embraces the largest and best of English, French, German and American novelties. 1909 seed greatly improved by rich shades of brown, bronze red and mahogany New seed, 1000, 25c; 2000, 40c; 6000, $1.00; oz. $5.00. **Rainbow** is a blend of over 50 of the latest introductions of giant pansies of the most beautiful, gorgeous colors, blocked, striped, veined, margined, etc. With every $1.00 worth of Kenilworth strain I will send 1000 of Rainbow free, and with other amounts in like proportion.

Chas. Frost Kenilworth, N. J.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

Telegraph Code Am. Seed Trade Association

—$2.00—

In either stiff or flexible cover. Address orders AMERICAN FLORIST CO., CHICAGO.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN
WELL ESTABLISHED Plants

Kentia Belmoreana

		Each	doz.
6-in. pot,	22 to 24 in. high	$ 1 00	$12 00
6-in. "	24 to 26 in. "	1 25	15 00
6-in. "	26 to 28 in. "	1 50	18 00
9-in. tub "	42 to 48 in. "	5 00	

Kentia Forsteriana

	Each	Per doz.
6-in. pot, 5 to 6 leaves, 28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves, 30 to 32 in. "	1 25	15 00
6-in. " 6 leaves, 34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high.....$ 4 00 each
12-in. " 4 plants, 6 feet high heavy..... 15 00 each
12-in. " 4 plants, 6 to 8 feet high, heavy..... 20 00 each

Joseph Heacock Co., Wyncote, Pa.

under any dignified department of government.

Our national post office department looked at in a commercial way is not profitable and surely this department would be relieved of great expense if it had not to transport a great many tons of garden seed packages all over the United States. Surely, here is a great chance for President Taft to reduce expenses for the national government.

[The valuable and unusual provision in the contract referred to, allowing the bidder to substitute certain other varieties of one family of seeds if the bidder is short of the one called for, is a new one.—ED.]

Imports.

During the week ending July 3 imports were received at New York as follows:

Julius Roehrs Co., 71 pkgs. plants.

Maltus & Ware, four cases plants, two cases bulbs.

Yokohama Nursery Co., 1 basket plants.

T. W. Wood & Sons, 55 bags seed.

To others, 14 cases plants, 903 bags, 101 cases seed, 9 pkgs. bulbs, 6 cases orchids.

Thought Millionaire in Need.

Jerome B. Rice, a millionaire seedsman of Rochester, an invalid who travels in a wheel chair, was waiting with a lapful of papers at Detroit for a boat. "Here, I don't want any papers," said a ragged-looking dock rat, mistaking him for a needy newsdealer, "but you can put these in your kick." He left two pennies.—New York Herald.

Cleveland.

STOCK TOO PLENTIFUL.

Business the past week continued slow. Carnations, although not quite so plentiful, are still overabundant, and many are being sold in job lots; still others go to the dump. The quality is not as good as it might be, either in size or lasting. Sweet peas are coming in by the wagon load; every commercial grower and some who are not, are sending the outdoor peas in in immense quantities, with the result that they are being sold at very low prices even for the best grades. A fine lot of Japanese and Harrisii lilies are now in but the call is limited. Water lilies have a good call and the quality is exceptionally good. Smilax and asparagus have been poor sellers the past week. Dagger ferns are getting cheaper.

NOTES.

The A. C. Kendel Seed Co. has moved its store up stairs next door to the old place, while contractors are rebuilding and remodeling the old store. Yollis Bros., who conducted a flower and postal picture card stand in front of this place will have to move to some new location.

William G. Nauman, Doan street, and his cousin, will leave for an extended trip through Germany and France about July 14. They expect to be gone about two months, and will combine business with pleasure.

Fifteen florists and floral concerns of this city have agreed to co-operate with Supervisor Bloomberg of the city playgrounds in carrying out a plan that will bring a day of flowers once each week to the children of the crowded city districts. Friday, July 2, was the first flower day. Flowers have been donated by the florists for distribution among the children of east side playgrounds. C. B.

St. Louis.

LITTLE DOING.

We have had during the past week a spell of extremely hot weather, the humidity making it most uncomfortable for every one. There is little doing, an occasional wedding or funeral causing the only outlet for flowers. The intense heat has told on the sweet peas and they will soon be a thing of the past. The Florists' Club meeting next week, the picnic, and then the dull summer season. The growers, however, will be kept busy cleaning, painting and renovating their houses.

Carnations and roses of good quality are eagerly sought after. Light colored gladioli are in demand. Fancy ferns are now quoted at $2 per 1,000.

The Missouri State Board of Agriculture met Tuesday for three days' session at the Woman's Magazine building. Mayor Lewis presided on the first day. E. W. Allen, of the University of Missouri, spoke on "Picking, Packing and Marketing of Fruit." Professor Irish spoke on "Model Farms for the City." A banquet by the mayor, also a banquet at Shaw's Garden was given by Director Trelease. Many members of the Florists' Club attended.

The wholesale houses are now closing at 5 o'clock in the evening and 12 o'clock on Saturdays. This is much enjoyed by the employes. The retailers are not so fortunate.

Mrs. George Angermueller will leave on a visit to her folks at Buffalo. George, however, has to be satisfied with a 10-day local fishing excursion.

F. C. Weber's window was decorated with a large American flag on the Fourth. F. C. Weber, Jr., has full charge in the absence of his father.

Kahr's Floral Co. will remain open all summer with reduced help.

W. F.

Kentias, Arecas, Asparagus.

Kentia Belmoreana.

The above cut shows the plant in 8-in. pot, at $6.00 each.

Kentia Belmoreana

The following lis of **Kentias** shows an exceptionally fine lot of perfect plants, sure to give satisfaction:

					Each
3-in. pot,	4 leaves,	height	10-12	.....	$2 00 per doz.
4-in.	" 4-5	"	"	14-16	$0 35
5 in.	" 5-6	"	"	18-22	75
6-in.	" 5-6	"	"	20-24	$1 00 to 1 25
6-in.	" 5-6	"	"	24-28	1 50
7-in.	" 6-7	"	"	24-30	2 50
8-in.	" 7-9	"	"	36-42	6 00

Areca Lutescens

We have an exceptionally fine lot of **Areca Lutescens.**

Size pot	Each	Doz.
3-in		$ 2 00
4-in	$0 25	3 00
5-in	50	5 00
6-in	75	9 00
7-in	2 00	24 00
8-in	3 00	36 00
10-in	5 00	60 00

Also an exceptionally choice lot of

Asparagus Plumosus

in 2, 3 and 4-in. pots that is sure to give entire satisfaction.

	Doz.	100
2-inch pots	$ .50	$ 3.00
3-inch pots	.75	6 00
4-inch pots	1.50	12.00

Areca Lutescens.

The above cut shows one of our largest sizes in 10 in. pot, at $5.00 each.

We can recommend the above as good values, and will say they are fine, perfect made-up plants, thoroughly established and are sure to give satisfaction.

Get your name on our mailing list by sending for our catalogue.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago.

Albany, N. Y.

SCHOOL FLOWERS AGAIN.

Thirty-eight members, besides guests, attended the July meeting of the Florists' Club, held at the establishment of President Frederick Goldring, Slingerlands. The principal subject discussed was brought up by Fred A. Danker, who called the attention of the members to the recent ruling of the school board of the city prohibiting the delivery of flowers at the halls in which the commencement exercises of the public schools are held. Mr. Danker called attention to the successful efforts of the AMERICAN FLORIST and the Florists' Club of Chicago against the action of the school boafd who had promulgated a similar edict. The speaker said that the matter has come up in several cities in the country and is of sufficient importance to be taken up at the annual convention of the S. A. F. in August, where it is expected that the matter will be thoroughly discussed. The board did yield to the extent of waiving the enforcement of the ruling until 1910 but the local florists are anxious that the board leave the matter as it has been for years in this city. It was finally decided to leave the matter to a committee of 10 to investigate and to report as to ways and means. The committee named by President Goldring is composed of: Fred A. Danker, H. G. Eyres, Edward F. Meaney, W. C. King, Alfred E. Whittle, Louis Menand, Patrick Hyde, Fred Henkes, Herbert E. Whittle and W. C. Gloeckner.

The subject of closing Saturday afternoons during July and August and at 5:30 p. m. on week days was referred to a committee composed of Thomas F. Tracey, John J. Butts and A. D. Wemple. Two proposals for membership were submitted: Arthur J. Smith and Fred Keller. Mr. Keller a short time ago purchased the establishment of Reinhold W. Zebel on the Troy road. Among the visitors who greatly enjoyed the meeting and the social features was R. J. Irwin of the Skidelsky & Irwin Co., of Philadelphia, who was in this section calling upon the trade at the time. Following the meeting, refreshments were served by the host and after an informal social time the members went home to meet again at the establishment of Fred A. Danker on Thursday, August 5. The flower show committee, of which Fred A. Danker is chairman, has distributed among the school children of the city 200 chrysanthemum plants which the owners are to grow for the show to be held in the state armory in November. The club has stimulated interest by offering gold prizes for the best plants in bloom, $5 for the best specimen and $2.50 for the second. R. D.

Rose Leaf Hopper.

At this season of the year when the roses are in bloom, the damaging effects of the leaf-hoppers or white bugs under the rose leaves, are most noticeable, because everybody is attracted to the beautiful blooms, and then confronted with the spectacle of bleached and withering leaves and bushes being denuded of foliage.

The rose hopper is most active in its operations about the middle of June. Professor H. A. Surface, the state zoologist, Harrisburg, Pa., says: "It has a piercing or suctorial mouth, and consequently does not eat away the tissue of the plant, but injects a poison and sucks the juices. Owing to their immense numbers they cause considerable damage. The eggs are laid on the underside of the leaves. The young are hatched there, and first look like small white plant lice, but are active and run quickly. The white castoff skins remain on the under sides of the leaves. The young insects have no wings and, therefore, do not fly, and cannot escape the insecticides applied as sprays. When full grown they are light in color and winged, and jump and fly quickly, and may escape the spray. Where the hoppers are at work the upper sides of the leaves will present a grayish appearance along the midribs. The whitened leaf denotes their presence.

"Spray the under sides of the leaves with a solution made by dissolving one pound of whale-oil soap in six gallons of water, or with a very strong tobacco decoction, or eight per cent kerosene emulsion, or with a strong solution of any kind of soap. Being sucking insects, they cannot be killed by the arsenical poisons, which are used effectively against the chewing insects. If the insects hop to the ground they can be killed by spraying the ground with a stronger solution which will not there do any injury to the plants."—Pittsburg Dispatch.

ASTER PLANTS

Semple's, Vick's and **Queen of the Market,** fine plants, grown from the best seed, three colors: $2.50 per 1000: $10.00 per 5000.

GERANIUMS, 4-in., in bloom, $4 00 per 100: 2½-in., $1.50 per 100; best varieties.

CABBAGE PLANTS, all kinds, from the field, $1 00 per 1000: 5000 for $4.00.

CAULIFLOWER, and **PEPPERS,** $2.50 per $1000.

TOMATOES, all kinds, $1 50 per 1000.

J. C. SCHMIDT, Bristol, Pa.

To Close Out the following ROSES, in 2½ and 3-in rose pots. Cash or reference.

Brides, Maids, Ivory, Chatenay, Uncle John, Richmond and **Perles** at $2.50 **Kaiserins** and **LaFrance** at $3.50, all 2¼-in. rose pots. **Kaiserins** and **LaFrance,** 2½ x 3 at $5 00. **Brides, Maids, G. Gate, Wootton, Richmond, Perles,** at $4.50 for 3-in rose pots **Killarneys** at $6 00.

Rush your orders. Subject to being unsold. Tell us if you want us to substitute.

GEO. A. KUHL, Pekin, Ill.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary.

CONSUL HARRY A. CONANT, of Windsor, writes that a branch Canadian factory is being erected at Leamington, near there, by a Pittsburg pickle concern, and will start operations during June.

CHARLES FEIRSTEIN, a prosperous truck farmer of Hyattsville, Md., met his death under peculiar circumstances June 26. He was driving his cows home and one of them, it is thought, in fighting a fly drove her horn through Mr. Feirstein's leg. Bleeding profusely he fell or lay down and was found later having bled to death.

Up-To-Date Manuring.

It is now recognized that mixed manures—manures, that is, which consist of more than one constituent—are more valuable than those which only give one kind of plant food, such as nitrate of soda. This is well seen in the fact that though nitrogenous manures alone are very useful for cereal crops, they do much more good when mixed with other mineral fertilizers. Where this is the case a lot more corn is grown, as the Woburn and Rothamsted experiments have clearly brought out, and another point worth mentioning is that quality does not seem to suffer in the way that it does, judging by the weight per bushel, when nitrogenous manures are used alone. The latter do not give corn of the highest value, as the experiments of recent years have proved, and nitrate especially has consistently been responsible for some of the lowest bushel weights as compared with mixed manures.

Lime, again, is best used in conjunction with a manure, and experiments point to improved quality and early ripening, as well as a sometimes noticeable increase in weight per bushel. The old adage, "Lime and lime without manure will make the farm and farmer poor," may be recalled, dating, doubtless, from a time when the value of a good complete natural manure was perhaps more appreciated than it is now. Farmyard manure is, of course, the best of these, and except for its bulk and rather slow action it has everything in its favor. Where artificials continuously used are apt to fall off in their results after a term of years, farmyard manure comes out strong in continuous merit, as 30 years of experiment at Woburn prove, the last 10 years' average showing but little falling off from that of the previous 20. The same cannot be said of the plots manured with artificials, which show a considerable shrinkage as the years roll on, although the complete manuring—nitrogen, potash and phosphates—still goes on giving a markedly good result in the corn grown, more especially in the wheat than in the barley of recent years. Indeed, experiments of all kinds have often shown the economy and wisdom of not limiting the manure to one constituent, though this, of course, may be done if the others are known to be present in the soil in sufficient quantity; but this is a point which must often be merely guesswork.

In this case nitrate as a top dressing for roots or corn, or phosphates, may be more cheaply and simply used than a mixture, some of the constituents of which would not be required. They should not be used in excess, however, in any case, as the residium left in the soil is less likely to be useful than that of a mixed manure; and much waste has been incurred at Rothamsted, it is found, by using very heavy dressings—that gave, in fact, no better return than about half the quantity used. Nitrate was noticeable in this way. There are natural limits, it has been found, to what a plant will take up in the way of food even on a poor soil, and it is wasteful to go beyond these, as a rule, because the balance left in the ground may be deteriorated in character or washed out of the land.—Journal of Horticulture.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

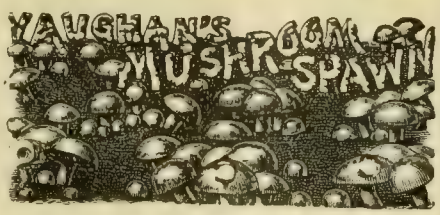
Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.



New Spawn Both Grades Now in Store.

Vaughan's English Spawn	25 lbs.	$ 2.00
	100 lbs.	6 50
Garden City Pure Culture Spawn	25 bricks	3.75
	100 bricks	12 00

VAUGHAN'S SEED STORE,
CHICAGO: 84-86 Randolph St.
NEW YORK: 25 Barclay St.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10,000 and over	85
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 00
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	2 00
Chinese Giant and Cayenne	50c per 100
Parsley,	1 25

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS
HOW TO GROW THEM
BY WM. FALCONER.
The Best American Book on the Subject.
170 Pages. 89 Illustrations.
Price $1.00.
AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

THIS SEASON'S FRESH
MUSHROOM SPAWN
which is now being supplied by
JOHNSON'S, LIMITED,
(The actual makers.)
IS IN SPLENDID CONDITION.
All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.
Correspondence invited for **OVER-SEA ORDERS**
Special quotations for large quantities. Prices and particulars on application to
JOHNSON'S, Limited,
44 Bedford Row, LONDON, ENGLAND.

Dearborn Engraving Co.
Designers, Printers & Engravers
1322 Wabash Ave., Chicago.
...Engravers for this Paper.

Reliable Seeds, SOW NOW

PANSIES	Oz.	Packet
Special Florists' Mixture	$ 4.00	$ .50
Cassier's Giant, Improved mixture	5.00	.75
Cassier's Yellow and White grounded, each separate	6.00	1.00
Germania, most beautiful shades.	8.00	1.00
Parisian Giants, splendid colors, mixed	3.00	.50
Trimardeau, as: Black King, Emperor William, Golden Yellow, Beaconsfield Purple White Yellow with black eye, each seperate	2.00	.30
Trimardeau Mixture	1.50	.25

O. V. ZANGEN, Hoboken, N. J.

New Price List of My Celebrated
WINTER FLOWERING
Sweet Pea Seed
Is being mailed. If you have not received a copy, please send for one. New crop of seed will be ready around July 15 next.
ANT. C. ZVOLANEK, Bound Brook, N.J.

Watch for our Trade Mark stamped on every brick of Lambert's
Pure Culture Mushroom Spawn
Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address
Trade Mark. **American Spawn Co., St. Paul, Minn.**

Lilium Harrisii, Now Ready for Delivery :: ::

Our first consignments have just reached us, and we are now filling early orders. **Easter comes very early next year, March 27th,** and a good many growers will have difficulty in getting Japan Longiflorum in flower in time, and there will be an extra demand for Harrisii in consequence.

In view of the fact that **crop is short,** we advise those who have not already placed order to lose no time doing so. Last year we were not able to meet the demand for our selected Harrisii on late orders, so we urge customers to order without delay. At present we have a good supply still to offer, and will be able to take care of early orders, but there should be no delay in ordering, as there is sure to be a scarcity of good stock, especially in the large sizes.

We offer a selected stock of the original true Harrisii for early forcing. These bulbs have been grown from the original pure Harrisii, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. We have had the stock inspected, and are assured that it is almost absolutely pure and almost entirely free from disease. It is not stock picked up indiscriminately from different sources, but is grown from one stock, and will be found very superior to the ordinary Harrisii usually offered, both in regard to purity and freedom from disease, and not the late type now so often furnished.

6- 7-in. bulbs, 350 to the case.....$ 6.00 per 100; $ 55.00 per 1000
7- 9-in. bulbs, 200 to the case..... 9.00 per 100; 85.00 per 1000
9-11-in. bulbs, 100 to the case..... 20.00 per 100; 180.00 per 1000

Full case lots at thousand rate.

Large Specimen Hydrangeas

In tubs and half-barrels. For July and August flowering.

We make a specialty of these plants, and have a grand lot in the finest possible condition. Our plants have never been so well budded as they are this season; flowers are just beginning to show color. Extra fine plants in tubs, $3.00 each; very large specimens in half barrels, $5.00 and $7.50 each.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1, 235 Broadway. **T. MELLSTROM,** Agent.

ORCHIDS

Just arrived, the following:—C. Labiata, C. Mossiæ, C. Mendelii, C Harrisoniæ, C. Granulosa. C. Dowiana Dend. Nobile D Wardianum, D. Formosum Giganteum, D. Thrysiflorum Oncidium Varicosum Rogersi Oncid Phymatochilum, Burlingtonia Fragrans. To arrive shortly: C Trianæ, C. Percivaliana C Gaskelliana C Schroederæ.

CARRILLO & BALDWIN, Secaucus, N. J.

Orchids

Just to hand, a fine lot of **East Indian Orchids** in the following varieties: Dendrobium Wardianum D. crassinode. D. primulinum. D. thyrsiflorum, and D. chrysotoxum. Others to follow.

Write us for prices.

Lager & Hurrell, Summit, N. J.

BAY TREES.

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

SPECIALTIES.

ROSES, from 3-inch pots. CHRYSANTHEMUMS. CARNATIONS, for fall delivery. SMILAX. VIOLETS

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Roses = Sold

Except H. P's, H. Cl's, Mosses, and M. Niel. New crops coming along finely.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD-OHIO

Splendid Plants. # ORCHIDS Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas:

Labiata, Mendelii, Mossiae, Gigas. Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Mountain Fastness to Grower. Send for Prices.

G. L. FREEMAN, 388 Appleton St., Holyoke, Mass.

Primroses

	Per 100
Chinese and **Forbesi,** July 15	$2.00
Ob. Grandiflora, Alba and Rosea	2.00
" " Gigantea and Kermesina	3.00
Smilax	1.25

Asparagus

	Per 100
Plumosus, July 10	$2.00
Sprengeri, ready Aug. 1	2.00

Pansy Seed

Giant flowering, new crop, per oz., 4.00

Cash. **JOS. H. CUNNINGHAM, Delaware, O.**

FERNS

Whitmani, 4-in.....$10.00 per 100
Boston, 4-in..... 10.00 per 100

New White Hardy

Hydrangea Arborescens Grandif. Alba,

2½-in., $3.00 per 100; $25.00 per 1000

JOHN A. DOYLE
Springfield, Ohio.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.

2½-in ..... $5.00 per 100; $45 00 per 1000

CYCLAMEN.

3-in.....$7.00 per 100 4-in ... $15 00 per 100
5-in $25 00 per 100

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO., 144 N. 7th St., Philadelphia, Pa

For RELIABLE STOCK From RELIABLE DEALERS

Keep Tab on Advts. in THE FLORIST

The Nursery Trade

American Association of Nurserymen.

C. J. Brown, Rochester, N. Y., President; C. M. Hobbs, Bridgeport, Ind., Vice-President; Geo. C. Seagar, Rochester, N. Y., Sec'y.

Thirty fifth annual convention to be held at St. Louis or Denver, June 1910.

VERY elaborate precautions are being taken in Maine to locate incipient forest fires and prevent their spreading.

TRENTON, N. J.—D. A. Marshall has purchased the nursery recently owned by Geo. Wainwright and will continue to run the place.

THE Denver Convention League is offering strong inducements in a letter sent out June 26 to secure the convention of the American Association of Nurserymen there in June, 1910.

LEE'S SUMMIT, N. J.—M. Butterfield & Son of the Lee's Summit Star Nurseries have dissolved partnership. M. Butterfield, the senior partner, has retired. His son, J. S. Butterfield, will continue the business.

ROCHESTER, N. Y.—The rose grounds at Ellwanger & Barry's nurseries have been thrown open to the public the last two weeks and there has been a splendid display all over the 10 acres or so given up to the culture of hardy roses.

MONTCLAIR, N. J.—Henry E. Wrensch, Sr., a landscape architect and a member of the Montclair Shade Tree Commission, is at his home, 51 Portland place, suffering from the effects of a shot wound in the forehead. The shot has been removed. It struck a bone of the skull just over the right eye and flattened out. Had it hit one inch lower Mr. Wrensch would probably have lost the sight of his right eye. No serious consequences are feared, although the injured man is suffering great pain. It is thought the shot was fired by boys who were using an air rifle in the vicinity.

Trees and Shrubs at Rochester, N. Y.

Deutzia Sieboldiana, a neat compact shrub not over two feet, with numerous slender racemes of small white flowers, with prominent yellow disks, was in bloom on June 25. D. Vilmoriana is still flowering. D. myriantha has corymbose clusters of showy white blossoms nearly one inch in diameter and came into flower June 24. D. scabra (crenata of nurseries) has a number of interesting forms of which the earliest to bloom is Pride of Rochester, which opened its first flowers June 22. Other varieties now in bloom are Plena, Wellsii, Watereri and Purpurea Plena, and they are all variously showy.

The mock oranges are now conspicuous features with their showy white blossoms. They hybridize easily and there are a great many in cultivation under specific names so that it is difficult to say what they are. About the first to bloom is Philadelphus grandiflorus, with flowers two inches in diameter and this was in bloom on June 17. P. Satsumi has loose racemes of smallish flowers and follows the former in blooming in two or three days. P. coronarius flowers about the same time as the last, and has dense clusters of fragrant creamy white blossoms. P. tomentosus has seven to nine white flowered clusters and flowers with the two last. P. Falconeri has very distinct narrow petaled blossoms that have a star-like appearance and was in full flower on June 25. P. latifolius, a very tall coarse growing species, and P. laxus, with a somewhat drooping habit, are now coming in bloom. P. microphyllus, an interesting small-leaved species which forms a neat compact bush, with smallish neat clusters of white flowers, is now coming in bloom. This species has proven valuable as one of the chief hybridizing factors in producing the numerous and highly valuable hybrids that have lately been raised and disseminated in France. These are splendid garden plants, but there are so many of them that we will only mention a few of the best, namely, Bouquet Blanc, Gerbe de Neige, Boule d'Argent, Mont Blanc, Candelabra, Erectus, Avalanche, Voi Lactee and Mer de Glace. These are all in bloom at present and they are important acquisitions in the decoration of gardens.

The European privet (Ligustrum vulgare) in several varieties are now in full flower, with small white flower clusters. L. Ibota and L. citrata are now coming in flower. Hydrangea Bretschneideri, with its prominent, showy, white cymes is now in good bloom and what a beautiful garden shrub it is. Itea Virginica, with its spikes of white flowers, is now in bloom. Styrax Japonica was in full flower June 21. The pendulous white flowers are very pretty. Fontanesia Fortunei, with its greenish white flower clusters, was in bloom June 17.

The hybrid rhododendrons are now past. About the last to bloom here was Memoir, with blush white flowers and prominent yellow spots on the upper segments, and with a dense compact truss. It was in full flower from June 17 to June 20. This has bloomed for the first time, and we hope it will prove hardy. Delicatissimum is a hybrid between R. maximum and R. Catawbiense, with delicate blush flowers, and was in good bloom about June 20. R. maximum is now coming in flower. Amongst the dwarf kinds, R. arbutifolium, with deep pink blossoms, has been in bloom since June 25. R. ovatum, with pale pink blossoms, has about passed out of flower. R. myrtifolium, with attractive pink flowers, is now in good order. R. hirsutum, with rosy red flowers, is now coming in bloom. R. Goveniamum, a curious form, said to be a hybrid between Azalea nudiflorum and R. Catawbiense and R. ponticum, is now in bloom. The small clusters of dark lavender blossoms are mostly hidden amongst the leaves. The leaves are semi-persistent. This has been here for 17 years.

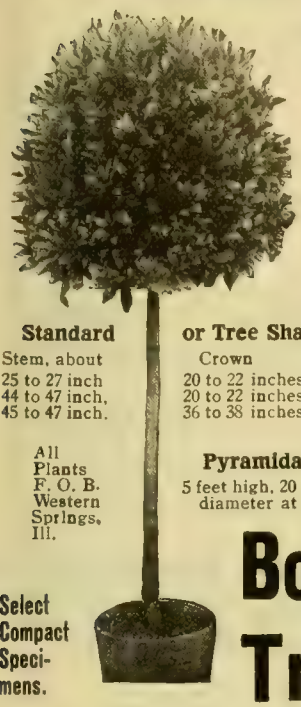
Amongst some Ghent azaleas in good bloom on June 17 were Prince Henri des Pays Bas, blood red; Alice Bauman, a pretty combination of pink, white and yellow; Madame Joseph Bauman, salmon striped with white and orange; Imperator, a suffusion of yellow and rosy pink; Maria Dorothea, blush white with deep orange yellow spots; Bouquet de Flore, salmon rose with white stripes. There are some individuals of A. calendulacea still in good bloom. A. arborescens, a most beautiful species from the Allegheny mountains southward, is now in full flower, with blossoms varying on different individuals from white to rosy pink.

Zenobia (andromeda) speciosa was in full flower June 25. The beautiful bell-shaped white blossoms produced on last year's branchlets in five to six flowered, drooping clusters from the lower sides of the branchlets, are indeed very attractive. It is somewhat tender here. Pieris (andromeda) Mariana, with campanulate white nodding blossoms, has just passed out of flower, with the exception of a few belated flowers. The cross-leaved heath

HYDRANGEA BRETSCHNEIDERI.
Growing in Highland Park, Rochester, N. Y.

BAY TREES

(LAURUS NOBILIS.)



A carload of fine, shapely, compact trees in the following sizes:

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard

Stem, about
25 to 27 inch
44 to 47 inch,
45 to 47 inch.

or Tree Shaped.

Crown	Each
20 to 22 inches.....	4 50
20 to 22 inches.....	6 00
36 to 38 inches.....	12 00

All Plants F. O. B. Western Springs, Ill.

Pyramidal Shaped

5 feet high, 20 to 22-in. diameter at base....$ 7 50

Select Compact Specimens.

Box Trees

Pyramidal Shaped

Height. 5-ft.....Each $ 7 00 Pair $13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$ 8 00
18-22 in.	30-32 in	5 50	10 00
22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap, we will allow 10 per cent discount.

Bush Shaped

18 to 22 in. high.....Each, 60c. per doz.. $6 00

Vaughan's Seed Store,

CHICAGO. NEW YORK.

(Erica tetralix), with dense clusters of delicate blush white blossoms at the ends of the branches, is now in bloom. E. cinerea, a low growing species with small terminal blush white flowers tinged with rose, is now coming in bloom.

Viburnum cassinoides, with its handsome white cymes, was in full bloom on June 19. V. dentatum, with much smaller clusters than the last, came in flower on June 19. The Amoor lilac (Syringa Amurensis) was in full flower June 22, and the Pekin lilac (S. Pekinensis) is just now, June 26, at its best. The Japanese lilac (S. Japonica) will be in bloom in about two days. These lilacs have variously disposed large loose clusters of white flowers.

The yellow locust (Robinia pseudacacia), with its showy drooping white clusters, was in full bloom June 14, and the clammy locust (R. viscosa), with its dense clusters of blush white flowers, came in bloom about June 21. The Spanish broom (Spartium junceum) was in good bloom June 24, and is now very showy. The clear yellow fragrant flowers produced along the glaucous terete branchlets, and which are about seven-eighths of an inch wide and one and a half inches long, are beautiful. This is not quite hardy here and is the first time it has flowered freely. There are still some belated blossoms on the Scotch broom (Cytisus scoparius). Cytisus hirsutus has been in flower since June 24. C. leucanthus var. Schipkaensis, a compact low prostrate shrub with whitish flowers, has been in bloom since June 24.

JOHN DUNBAR.

ANNOUNCEMENT

BUSH HILL PARK, ENFIELD, MIDD'X, JUNE 1909.

Dear Sir:—

RE HUGH LOW & CO., (Dissolved)

In consequence of the voluntary dissolution of my late firm, I have much pleasure in informing you that I have taken over the **Royal Nurseries,** with the greater part of the stock. These nurseries were formed by me in 1881, under the instructions of my late father, and since his death I have taken an active part in the direction of the business.

The staff which is transferred, practically intact, includes such well-known men as my representatives: Mr. Harry A. Barnard, Mr. F. W. Ashton and Mr. Laurence J. Cook, Mr. Edward Tack as Orchid specialist and grower, Mr. M. C. Allwood, the enthusiastic Carnation man, Messrs. Moore, Reid and Meades, amongst the roses and fruit trees, and Mr. Phillips in the General Department.

I feel that with such men at my back, clients can rely upon the same care and attention being given to their business as under the old regime.

Esteeming your orders and enquiries. Believe me to be always at your service as heretofore.

Obediently yours,
STUART H. LOW.

Please address all communications to **STUART LOW & CO., Bush Hill Park, Enfield, Midd'x.**

100,000 PEONIES For Fall Delivery

All of the Leading Varieties from the COTTAGE GARDENS' FAMOUS COLLECTION.

Our enormous stock enables us to send out tubers of the very highest quality, and in filling orders we use undivided roots only—assuring an abundance of flowers the first season. This year we offer 1, 2 and 3-year plants.

Wholesale List Now Ready. Send for a Copy.

COTTAGE GARDENS COMPANY, Inc.

Queens, Long Island, N. Y.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Clematis** And all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

Fifteen acres devoted exclusively to

PEONIES

Our 16th year. Prices right. Write for list today.

GILBERT H. WILD,

Wholesale Peony Grower. **Sarcoxie, Mo.**

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.

Write for descriptions and prices.

THE WM. H. MOON CO.,
Morrisville, Pa.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.

CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....

PAINESVILLE, OHIO.

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.

ANDORRA NURSERIES,

Wm. Warner Harper, Prop.

Chestnut Hill, PHILA., PA

ROSE PLANTS. CLEARING OUT SALE.

Best Stock. Lowest Prices.

From 2½-inch Pots	100	1000
American Beauty	$ 4 00	$ 35 00
Richmond	2 50	20 00
My Maryland	5 00	40 00
Bridesmaid	3 00	25 00
Chatenay	3 00	25 00
Perle	3 50	30 00
Countess of Gosport	4 00	35 00

From 3-in. Pots	100	1000
American Beauty	$ 5 00	$45 00
Richmond	3 50	30 00
Killarney	5 00	45 00

Asparagus Sprengeri

2½-in. pot plants.....$2 00 per 100

PETER REINBERG, 1,800,000 Feet of Modern Glass **35 Randolph Street,** **Chicago**

CHRYSANTHEMUMS.

We have the following ready for immediate delivery, from 2¼-in pots, $2 50 per 100; $20.00 per 1000: Golden Glow, Ivory, Mayor Weaver, Major Bonnaffon, Monrovia, Maud Dean, Miss A. Byron, Pacific Supreme, Rosiere, Timothy Eaton, White Bonnaffon.

ELMER D. SMITH & Co., Adrian, Mich.

'MUMS, From 2 and 3-inch Pots.

Touset, Dr Enguehard, Pacific, Estelle, pink and white; yellow and white Jones, Duckham, Pompons Mrs. Beu and Diana. About 5000 in lot. Cheap to close them out.

2c each. Cash with order.

MRS. A. M. SCHAFER, 229 Balmoral Ave., **Chicago.**

GREENHOUSE PLANTS.

Fancy leaved Caladiums, Gloxinias, Tuberous Rooted Begonias, $25.00 per 100.

Chinese Primroses, Obconica Primroses, Calestial Peppers, Cyclamen, 2½-in., $5.00 per 100; 3-in., $8.00 per 100.

If you want stock **Geraniums** or anything else, write us.

Ask for our list of **Ferns.** We can help you out.

GEO. A. KUHL, Wholesale Grower. **Pekin, Ill.**

Small Ferns

We will have a large quantity of Small Ferns for fall shipment.
Get your orders in early.

ERNEST OECHSLIN,
180 Madison St., RIVER FOREST, ILL.

FERNS.

Boston, 2½-in. fine	$ 3 50	per 100
Dracena, Ind. 4 in.	15 00	per 100
" " 3-in.	10 00	per 100
" " 2½-in.	5 00	per 100
Geraniums, Nutt, 3-in	4 00	per 100
" 2¼-in, assort	2 00	per 100
Vincas, 4 and 5 in.	$10 00 and	12 00 per 100
Asters, transplanted, all colors and varieties.	$5.00 per 1000.	

F. C. RIEBE, Florist. **Webster, Mass**

Special Offering

	Per 100	1000
2,000 American Beauties, 2½-in.	$4 00	$35 00
500 American Beauties, 3-in.	5 00	

WIETOR BROS.
51 Wabash Ave., CHICAGO

EUGENE, ORE.—The Misses Ida and Hariette Patterson are building greenhouses and stocking them with plants preparatory to going into the business.

BOYERTON, PA.—W. S. Funk & Son, West Philadelphia avenue, have just erected a two-story office building near the greenhouses and installed a new electric motor.

MARY TOLMAN

A new light salmon pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO. Joliet, Ill.**

A New Seedling Carnation :: :: :: Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

AMERICAN BEAUTY

$3.00 per 100; $25.00 per 1000.

Strong, clean, healthy plants from benches. **We need the space. Hence our offer.**

J. A. BUDLONG
37-39 E. Randolph St., CHICAGO.

New Carnation Lucille

White, overlaid with Pink.

Will bring you bigger returns.

Try it and be convinced that it is a money maker. $12.00 per 100; $100.00 per 1000.

A. F. LONGREN, Des Plaines, Ill.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Now Ready. Now Ready.
Bargains in the **BEST**

New Midseason and Late 'Mums

Plenty of the grand new **Golden Eagle,** best yellow, and of **Poehlmann,** grandest midseason white, and of the prize-winning **Lynwood Hall,** new white of last year. These you cannot find the equal of in yellows and whites for main crop. 2½-in pots, $4.00 per 100, $35.00 per 1000; R. C., $3.00 per 100, $25.00 per 1000.

Also all late **Standards,** except Chadwicks, at $20.00 per 1000 for 2½ and $15 00 for R. C.

Any of the following surplus **BEDDING STOCK,** out of 2½'s and 3's, for $1.50 per 100 assorted, if wanted: French and African Marigolds, (Tagetes) Helianthus Cuc., Ice Pinks, German Ivies, Lobelias, Coleus asstd., yellow Alternantheras, Thunbergias, etc.

Cannas, 4-inch, 4c.

I. M. RAYNER, Greenport, N. Y.

Mention the American Florist when writing

Chrysanthemums.

To Close Out for Bench Room.

	Per 100		Per 100
Oct. Frost	$1 00	Col. Appleton	1 00
J. Nonin	1 00	Y. Bonnaffon	1 00
Touset	1 00	Intensity	1 00
W. Bonnaffon	1 00	M. Dean	1 00

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00

N. C. MOORE & CO., Morton Grove, Ill.

GRAFTED ROSE PLANTS

Choice stock ready to plant in the benches.
2,000 Maids, 4-inch.....$12 00 per 100
3,000 Brides, 4-inch.....$12 00 per 100
4,000 Killarney, 3 1-2-inch..... 15 00 per 100

OWN ROOT ROSE PLANTS.

5.000 Kaiserin, 3-inch .....$4 00 per 100
5,000 Maids, 2 1-2-inch.....$3 00 per 100

Killarney Bench Plants **Grafted, 2 years old. Price, $50.00 per 1000.** Ready for immediate shipment. These plants will make fine stock for replanting in the benches.

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store: 76 Wabash Ave., CHICAGO**

Grafted Roses

Strong, thrifty plants in 3½-in. pots.

Bride, Bridesmaid, Kaiserin, Richmond, Chatenay,
$12.00 per 100.

Rhea Reid and Mrs. Jardine,
$20.00 per 100.

Jackson & Perkins Co.
Newark, New York.

ROSES

	Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2¼-in.	5 00	45 00
Perle, Fine, strong, 2½-in.	5 00	45 00
Potter Palmer, 2½-in.	5 00	45 00

	Per 100	1000
Bride,	$ 5 00	$ 45 00
Maid,	5 00	45 00
Kaiserin, 3½-in.	6 50	55 00
Uncle John, Fine strong, 2½-in.	4 00	35 00
Killarney, Fine, strong, 2½-in.	5 50	
" " 3½-in.	7 50	

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia,** the early yellow exceptionally fine, ready now. 2½-in., $3 00 per 100 $25 00 per 1000.
For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in.... $4 00 per 100: $35 00 per 1000
Smilax, 3-in..... 4 00 per 100: 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash.
Terms: 30 days, net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., **Morton Grove, Ill.**

A Few Roses

GRAFTED
Brides, Bridesmaids, 3½-in. pots, $15.00 per 100.

OWN ROOTS
Brides, Bridesmaids, 3-in. pots, $7.00 per 100.

J. L. DILLON
Bloomsburg, Pa.

ROSES

A SPECIALTY.

The Dingee & Conard Co.,
WEST GROVE, PA.

Rose Plants.

Good clean, healthy stock, 3-in. pots, from prize winning stock at $5.00per 100, except My Maryland at regular price, $90.00 per 1000.

3000 Killarney, **2000 Richmond,**
500 Enchanter, **1000 My Maryland.**

Gude Bros. Co.,
1214 F St. Northwest. **WASHINGTON, D. C.**

One-Year Old Bench Plants.

	Per 100	1000
American Beauties	$4 00	$35 00
Brides grafted	4 00	35 00
Maids, grafted	4 00	35 00

From 2 1-2 in. Pots.

	Per 100	1000
Poinsettias	$4 00	$35 00
Smilax	2 50	20 00

Satisfaction Guaranteed.

GEO. REINBERG, 35 Randolph St., Chicago.

Memphis, Tenn.

Trade this spring has been good on account of the long-protracted cool weather in April and May and well into June, also on account of the Confederate reunion which was one of the red letter days here. Over 200,000 strangers came to the city, but they were not flower buyers, and did not do the florists any good to speak of. Replanting rose houses is the order of the day and some carnations are being lifted and put in their winter quarters. Such a proceeding 10 years ago in this locality would have stamped the florist fit only for the foolish house, but it is the only way to make carnations profitable here. Matter for the fall catalogues is being prepared and hot work it is with the thermometer at 92°.

Otto Buseck severs his connection with the Pearson-McCarthy Co. July 1 and is out with a prospectus soliciting subscriptions to a stock company to be called the Buseck Floral Co. The capital stock will be $25,000, non-assessable, fully paid in. The shares are to be sold in small lots if possible to interest as many different people directly interested in the business. It is proposed to erect seven 27x150 foot greenhouses at a cost of $8,000. How that can be done is not explained in the propectus. A store will be opened on "one of our principal streets and magnificent floral displays will be made under the supervision of Mr. Otto Buseck, whose work in this line has made him famous all over the country." The location has not been decided upon. It is refreshing to read this prospectus and inspires one with hope for the future of the craft in this section of the United States.

Rumors of changes in several of the stores here are heard among the trade. As yet nothing definite has developed.

Otto Wolrath, of the Otto Schill Co., is on a trip to Austria, his native country and will return in August. H.

Miscellaneous Plants

Alternantheras, 4 varieties. $2.50 per 100.
Bouvardias, pink, white, scarlet. 2-in. pots. $3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow, 2½-in. pots. $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2.00 per doz.
Geraniums, best varieties from 3-in. pots, $4.00 per 100; 4-in. pots $6.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground. $1.00 per doz.
Lobelia, Double blue 2½-in. pots $3.00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadri color; Golden Feather Cupheas, Snapdragon, Lantanas, Smilax, Asparagus Sprengeri.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts. **PHILADELPHIA, PA.**
Mention the American Florist when writing

A FEW GOOD THINGS YOU WANT.

Rex Begonia, 2-in. $5.00 per 100.
Asparagus Sprengeri, 3-in. $5.00 per 100.
Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in. pots, $2.50; 3-in., $5.00 per 100; Mme. Salleroi, 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in. $3.00 per 100; 3-in. $5.00 per 100. **Dracena Indivisa.**
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100

Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, **Newton, N. J.**
Mention the American Florist when writing

Seasonable Stock

	Per 100	Per 1000
Primula Obconica, Ronsdorf hybrid, 2½-in.	$3 00	$25 00
Chinese Primroses, very best English and French strains, 2½-in.	3 00	25 00
Poinsettias, fine stock 2½-in.	5 00	
Potted Chrysanthemums, best varieties for pot culture Pompon Large Flowering, Single and Anemone flowers, 4½-in. pots	8 00	
Ferns for Dishes, assorted varieties, 2¼-in. pots	3 00	25 00

Cash with order.

FRANK OECHSLIN
2572 W. Adams St., **CHICHGO.**

COLEUS In 10 Very Best Varieties.

Including Verschaffeltii, Golden Bedder, Beckwith Gem, Sensation and other good ones, **$2 00 per 100; R.C., 75c per 100, 6.00 per 1000.**
ASPARAGUS SPRENGERI, extra strong, 2¼-in pots, $2 00 per 100; $18.00 per 1000.

WALTER W. COLES, **Kokomo, Ind.**

Neph. Whitmani

2¼-inch .... $ 5.00 per 100
3½-inch .... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Charles H. Totty

MADISON, NEW JERSEY,

Wholesale Florist

Chrysanthemum Novelties my specialty.

What Shall I Fill My Empty Houses with Now?

WHAT WILL PAY THE BEST?

Is the cry all over. Use good judgment. I tell you what. ☞ Listen to me. You will never go wrong by devoting a reasonable space to **Araucaria Excelsa, Robusta Compacta** and **Excelsa Glauca, Kentias, Palms,** etc., while they are cheap. They will grow into money for you while you are asleep. Every florist knows **the Araucaria King, GODFREY ASCHMANN, of Philadelphia.** Look at what bargains he offers you in this advertisement:

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants **Araucaria Robusta Compacta, Glauca** and **Excelsa.** ☞ Florists, bear in mind there is no garden lawn or porch, etc., in the summer that is complete without the Araucarias; therefore if you want to make money. ☞ Recommend your customers to buy an Araucaria. Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50, $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa, 3-4-5 year old 5-6-7 tiers, 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation 2 to 3 years old, 5½ to 6 in. pots, 40c, 50c, 60c and 75c. Can meet all applications.

Araucaria Robusta Compacta and **Excelsa Glauca,** April, 1909 importation, 6-in. pots, 2-3-4 tiers, 3 years old, 12 to 20 in. high, $1 00, $1.25, $1.50 each.

Kentia Forsteriana, made up 8-in. pots one large, 45 to 48 in. high, in center, three smaller ones around, $4.00; single 6-7 in. pots, from 20 to 48 in. high, 75c, $1.00, 1.25, $1.50, $2.00, $2.50 to $3 00 each.

Kentia Belmoreana, 6-in. pots, 25 to 30 in. high, 5 6 good leaves, 3 to 4 years old, 75c, $1.00, $1.25 to $1.50; 4-in. pots, 18 to 20 in. high, 25c to 30c.

Begonia Gloire de Lorraine. Our special strains introduced last Christmas, are well known in the florist trade. We have both the deep pink and the light pink varieties, 4-in. pots, 30c.

Sago Palms or Cycas Revoluta, 5, 6, 7 and 8 in. pots, 5 to 20 leaves to a pot. Price, 10c per leaf.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c, 35c to 50c.

Adiantum Hybridum, large plants, fit for 7-8 in pots, suitable for cutting, 35c, 40c and 50c.

Areca Lutescens, 4-in., made up of three plants, 20c.

Cocos Weddelliana, 3-in., 15c to 18c; 3½-in., 20c to 25c.

Ferns for Dishes, a good assortment, 2½-in., $3.00 per 100.

Asparagus Plumosus, 2½ in., $25.00 per 1000, $3.00 per 100; 3-in. $4.00 per 100.

Cosmos, four best early varieties, made up three plants in a pot, $4.00 per 100.

Asters, Victoria, German, 5 best sorts, $3.00 per 100.

Jerusalem Cherries or Solanum Multiflorum, the new improved varieties, with large berries, 2½-in. pots, $5.00 per 100.

Zinnia Elegans, 2½-in. pots, in bloom, mostly white, valuable for cut flowers, $5.00 per 100.

Cannas, all sorts, and **Scarlet Sage,** 4-in., $5.00 per 100.

Please state if in or out of pots.
All goods must travel at purchaser's risk only. Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., **Philadelphia, Pa.**
Importer, Wholesale Grower and Shipper of Pot Plants.
Mention the American Florist when writing

GERANIUMS Are a Specialty With Us.

We have an immense stock ready for shipment from 3-in. pots, in a splendid assortment, at $3 00 per 100, $25 00 per 1000. We will send 1000, in 20 good kinds, our selection, for $25.00; good stocky plants from 3-in. pots.

Mrs. Lawrence is an exceptionally fine variety. Our Geranium catalogue describes it as follows: This is without exception, the finest Geranium in its color that we have ever seen; clear, healthy foliage, splendid dwarf, compact habit of growth; wonderfully free in flowering; indispensable as a pot plant, being strongly recommended for winter blooming. Unsurpassed as a bedder. The color is an artistic shade of bright satiny salmon pink, slightly tinged white. We are satisfied its distinct and graceful form will place it in the front rank of its race. From 2-in. pots, $3.00 per 100; 3-in. pots, $4.00 per 100.

R. VINCENT, Jr. & SONS CO., White Marsh, Md.
Mention the American Florist when writing

GERANIUMS..

Rooted cuttings all year 'round of Nutt, Ricard and Poitevine. (No other varieties.)
Summer prices May 1st to Oct. 15th: $1 00 per 100; $10 00 per 1000.
Winter prices, Oct. 15th to May 1st: Nutt, $12.50 per 1000; Ricard and Poitevine, $15.00 per 1000; 100 at same rates.
Orders booked for future delivery without deposit.

Smilax and Sprengeri

From small pots. Specially grown.
Samples sent on request.
$1.50 per 100; $15.00 per 1000.
—Cash.—

ALBERT M. HERR, **Lancaster, Pa.**
Mention the American Florist when writing

GERANIUMS....

To Close Out for Bench Room.

	Per 100
S. A. Nutt, Bruant, La Favorite, 4-in.	$4.00
Mme. Salleroi, 2½-in.	1.00
Rose Geraniums, fine 4-in.	4.00
English Ivy, 4½-in., fine stock	$12.50 per 100
Fuchsias, 2-in.	1.50 per 100

N. C. MOORE & CO., **Morton Grove, Ill.**

$1.50 per 100.

Geraniums, double Grant, Bruant, Viaud, etc. 2-in. $1.50 per 100.
Heliotrope, Salvia, Coleus, Stevia, 2-in. $1.50 per 100. **Alternanthera,** $2 00 per 100
Paris Daisy, yellow, white. **Swainsona,** alba. **Stevia,** green. **Asparagus,** Sprengeri, 2-in., 2c.
Cannas, 4 and 5-in., 5c.

Cash or C. O. D.

BYER BROS., **Chambersburg, Pa.**

Pittsburg.

NO GOOD STOCK.

The lack of good stock results in a very quiet market. What carnations still come in are mostly unfit for shipping and until asters come in there is nothing to take their place. Lilies of fine quality are plentiful. American Beauty roses, while in poor form, have good call. Kaiserin and Killarney clean up nicely.

NOTES.

Last week we made mention of the marriage of Louis Biehl but did not know of an accident which befell him the same evening, and unwilling to postpone the ceremony, he was married while propped up in bed with a broken shoulder, the result of his horse running away and spilling him on his way to take flowers to his bride.

The Florists' and Gardeners' Club will hold its annual outing and basket picnic at Keystone Park, a few miles north of the city on the B. & O. There will be several trains both ways during the day and the round trip fare is 40 cents. Every one who goes is sure to have a nice time, so don't miss it.

W. Q. Potter is spending a week in Green county preparatory to going north.

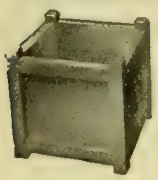
Visitors: Norval Kiger and wife, Marietta, O.

J.

ALTOONA, PA.—W. T. Shields will start a greenhouse on Fourteenth avenue.

WHITE PLAINS, N. Y.—Victor Abel, manager for H. Bowman is away on a vacation.

MISSION PLANT BOXES.



Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable Suitable for either outdoor or indoor use. Write for prices.

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For Sale by Wholesale Seedsmen, Florists and Supply Dealers.

Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS, IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE, OHIO.

GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.

361-363 Herndon St., CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for prices.

A. F. KOHR

1521 Leavitt St., CHICAGO.

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Organ of the French Rosarians.

Published at Paris. Once a month with color plates.

Subscription $2.70 per year. Sample copies free

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a SUISNES, Brie

Par Grisy-Suisnes. (Seine et Marne), FRANCE.

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"STANDARDS"

FULL SIZE AND WIDE BOTTOMS, BULB PANS AND AZALEA POTS.

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CATALOGUES

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Standard Flower Pots!

Packed in small crates, easy to handle.

	Price per crate			Price per crate
1500	2-in., in crate,	$4.88	144	6-in., in crate, $3.16
1500	2¼ "	5.25	120	7 " 4.20
1500	2½ "	6.00	60	8 " 3.00
1000	3 "	5.00	HAND MADE	
800	3½ "	5.80	48	9-in., in crate, $3.60
500	4 "	4.50	48	10 " 4.80
456	4½ "	5.24	24	11 " 3.60
320	5 "	4.51	24	12 " 4.80
210	5½ "	3.78	12	14 " 4.80
			6	16 " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.

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OFFICIAL S. A. F.

Shipping Labels

Actual size of leaf 2¾ x 5¼ inches.

FOR CUT FLOWERS: in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Price: Per 500, $2.85, per 1000 $4.50. Samples on request. Electro of leaf, postpaid, $1.25. Cash with order.

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324 Dearborn St., CHICAGO.

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HARDY PERENNIALS.

Hardy perennials. Vaughan's Seed Store, Chicago and New York.

HELIOTROPES.

Heliotrope. Geo. Emmans, Newton, N. J.

HYDRANGEAS.

Hydrangeas, specimens in tubs, $3 each; in half barrels, $5 and $7.50 each. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Hydrangea Arborescens grandi. alba, 2½-in., $3 per 100; $25 per 1,000. John A. Doyle, Springfield, O.

IRISES.

Iris, Japanese, field-grown, $1.20 per doz.; $8 per 100. Germanica, field-grown, 75c per doz.; $5 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Iris. E. S. Miller, Wading River, L. I.

IVIES.

English ivy, 2-in., R. C., 75c. J. H. Dann & Sons, Westfield, N. Y.

Ivy, English, 4½-in., $12.50 per 100. N. C. Moore & Co., Morton Grove, Ill.

JERUSALEM CHERRIES.

Jerusalem cherries, 2 in a pot, $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

LILACS.

Lilacs. Jacs Smits, Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

From Storage.

Lily of the valley. H. N. Bruns, 1407-11 W. Madison St., Chicago.

LOBELIA.

Lobelia, dbl. blue, 2½-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

MOONVINES.

Moonvines, 4-in., $12 per 100; 3-in., $8; 2½-in., $5. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Sphagnum. Both quality and quantity, bag or barrel, $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

Sphagnum moss. Vaughan's Seed Store, Chicago and New York.

MUSHROOM SPAWN.

Mushroom Spawn, Vaughan's English, 25 lbs., $2; 100 lbs., $6.50. Garden City Pure Culture, 25 bricks, $3.75; 100 bricks, $12. Vaughan's Seed Store, Chicago and New York.

Mushroom spawn. Sure crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., N. Y.

Mushroom spawn. Lambert's Pure Culture American Spawn Co., St. Paul, Minn.

Mushroom spawn. Johnson's, Ltd., 44 Bedford Row, London, England.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries Chestnut Hill, Philadelphia.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock of all kinds. Storrs & Harrison, Painesville, Ohio.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

Nursery stock, ornamental trees and shrubs. W. & T. Smith Co., Geneva, N. Y.

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Orchids, fine lot of East Indian, Dendrodium Wardianum, D. crassinode, D. primulinum, D. thyrsiflorum, D. chrysotoxum, etc. Lager & Hurrell, Summitt, N. J.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

PALMS.

Palms, Areca lutescens, 3-in., $2 per doz.; 4-in., 25c each; $3 per doz.; 5-in., 50c each; $5 per doz.; 6-in., 75c each; $9 per doz; 7-in., $2 each; $24 per doz; 8-in., $3 each; $36 per doz., 10-in., $5 each; $60 per doz. Kentia Bel., 3-in., 4 leaves, 10-12 ins., $2 per doz; 4-in., 4-5 lvs., 14-16 ins., 35c; 5-in., 5-6 lvs., 18-22 ins., 75c; 6-in., 5-6 lvs., 20-24 ins., $1 and $1.25; 6-in., 5-6 lvs., 24-28 ins., $1.50; 7-in., 6-7 lvs., 24-30 ins., $2.50; 8-in., 7-9 lvs., 36-42 ins., $6. Geo Wittbold, 1657 Buckingham Pl., Chicago.

Palms, Kentia Bel., 6-in., 22 to 24 ins., $1 each; $12 per doz.; 6-in., 24 to 26 ins., $1.25 each; $15 per doz.; 6-in., 26 to 28 ins., $1.50 each; $18 per doz.; 9-in. tub 42 to 48 ins., $5 each. Kentia Fors., 6-in., 28 to 30 ins., $1 each; $12 per doz.; 6-in., 30 to 32 ins., $1.25 each; $15 per doz.; 6-in., 34 to 36 ins., $1.50 each; $18 per doz. Made-up Fors., 9-in. tub, 42 to 48 ins., $4 each.; 12-in., 6 ft. high, $15 each; 12-in., 6 to 8 ft., $20 each. Joseph Heacock Co., Wyncote, Pa.

Palms, Kentia Bel. and Fors., big plants, $1.25 to $2 each. G. Aschman, 1012 W. Ontario St., Philadelphia.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

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Pandanus. P. J. Berckmans Co., Augusta, Ga.

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Celestial peppers, 2½-in., $5; 3-in., $8. Geo. A. Kuhl, Pekin, Ill.

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Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

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Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

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Peonies. Gilbert H. Wild, Sarcoxie, Mo.

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Poinsettias. Vaughan's Seed Store, Chicago and New York.

Poinsettias, 2½-in., $5 per 100. Frank Oechslin, 2572 W. Adams St., Chicago.

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Chinensis, finest giant fringed strains ready now, 9 separate colors or mixed, from 2-in. pots, 2c. Obconica, Ronsdorfer, Lattmann's Hybrids ready now, 10 separate colors or mixed, 2-in., 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Primula obconica, Ronsdorf hybrid, 2½-in., $3 per 100; $25 per 1,000. Chinese primroses, English and French strains, 2½-in., $3 per 100; $25 per 1,000. Frank Oechslin, 2572 W. Adams St., Chicago.

Primroses, Chinese, Forbesi, obconica, grandi, alba and rosea, $2 per 100. O. gigantea and Kermesina, $3. Jos. H. Cunningham, Delaware, O.

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Pyrethrums, field-grown, $1.20 per doz.; $8 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Rhododendrons. Jacs Smits, Naarden, Holland.

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ROSE PLANTS.

2½-Inch Stock.

	Per 100.	Per 1,000.
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
K. Moulton	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Kaiserin	4.00	35.00

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Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per 100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. Rhea Reid, 2¼-in., $5 per 100; $45 per 1,000. Bride, Maid, $5 per 100; $45 per 1,000. Potter Palmer, 2½-in., $5 per 100; $45 per 1,000. Kaiserin, 3½-in., $6.50 per 100; $55 per 1,000. Uncle John, 2½-in., $4 per 100; $35 per 1,000. Killarney, 2½-in., $5.50 per 100; 3½-in., $7.50. Perle, 2½-in., $5 per 100; $45 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Roses, 2½-in., Am. Beauty, $4 per 100; $35 per 1,000; 3-in., $5 per 100; $40 per 1,000. Richmond, $2.50 per 100; $20 per 1,000; 3-in., $3.50 per 100; $30 per 1,000. My Maryland, $5 per 100; $40 per 1,000. Bride, Chatenay, $3 per 100; $25 per 1,000. Perle, $3.50 per 100; $30 per 1,000. Countess of Gosport, $4 per 100; $35 per 1,000. Killarney, 3-in., $5 per 100; $45 per 1,000. Peter Reinberg, 35 Randolph St., Chicago.

Roses, 2½-in. Bride, Maid, Ivory, Chatenay, Uncle John, Richmond, Perle, $2.50; Kaiserin and La France, $3.50; Kaiserin and La France, 2½x3, $5. Bride, Maid, G. Gate, Wootton, Richmond, Perle, 3-in., $4.50. Killarney, $6. Geo. A. Kuhl, Pekin, Ill.

Roses, strong, clean stock, grafted; Bride, Maid and Richmond, $12 per 100. Own roots; Bride, Maid, Ivory, Gates and Richmond, $6 per 100; all from 3½-in. pots. Also Dracæna indivisa, pot-grown, plants 5½-in., $25 per 100. P. R. Quinlan, Syracuse, N. Y.

Killarney rose plants, 2-in., extra strong, ready for shift, $30 per 1,000; also 2½-in., $35; also Killarney, 2-year-old bench plants, $40 per 1,000. Immediate delivery. Weiland & Risch, 59 Wabash Ave., Chicago.

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Roses, own root, Bride, Maid, Killarney, Richmond, Perle, Chatenay, 4-in., $8 per 100; $75 per 1,000. My Maryland, Mrs. Jardine, Rhea Reid, Queen Beatrice, 4-in., $12 per 100. Chas. H. Totty, Madison, N. J.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses, grafted, 3½-in., Bride, Maid, Kaiserin, Richmond, Chatenay, $12 per 100. Rhea Reid, Mrs. Jardine, $20 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, Am. Beauty, bench plants, $3 per 100; $25 per 1,000. J. A. Budlong, 37-39 E. Randolph St., Chicago.

Roses, a bargain, 4-in. plants, extra fine stock, surplus grown for our own planting, 225 Brides, 450 Bridesmaids, $7 per 100. Joseph Rock, Burlington, Ia.

Roses, grafted, Bride, Maid, 3½-in., $15 per 100. Own roots, Bride, Maid, 3-in., $7 per 100. J. L. Dillon, Bloomsburg, Pa.

Roses, Ivory and Uncle John, fine well pot bound stock, 3-in., $4 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Roses, 1-year bench plants, Am. Beauty, $4 per 100; $35 per 1,000. Bride and Maid, grafted, $4 per 100; $35 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Roses, C. Rambler, D. Perkins, Lady Gay, 5½ and 6-in., 25c and 30c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Roses, on own roots, budded, bedding, H. Ps., hybrids and teas. W. & T. Smith Co., Geneva, N. Y.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, Bride, Maid, Golden Gate, 3-in., $5 per 100. Geo. M. Emmans, Newton, N. J.

Roses, leading varieties. Leedle Floral Co., Springfield, Ohio.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, leading vars. Dingee & Conard Co., West Grove, Pa.

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Salvia Bonfire, 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

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Seeds, bean, beet, cabbage, carrot, kohlrabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

Single chrysanthemums, seed of Wells' new early flowering singles, trade packets, 25c and $1 each. Sow now and plant outside in spring. Will give you bushels of flowers in early fall. Chas. H. Totty, Madison, N. J.

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Seeds, pansy, Brown's Superb Giant, yellow with dark eye and pure white, separate colors, 3,000 seeds, $1; ¼ oz., $1.50; ½ oz., $2.50; oz., $5; ¼ lb., $14; ½ lb., $25; 1 lb., $50. Peter Brown, Lancaster, Pa.

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Seeds, Seth Low muskmelon. New York Market cucumber. Brechin Castle Brussels sprouts. Weeber & Don, 114 Chambers St., New York.

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Seeds, pansies, mixed, oz., $5; 3 ozs., $12; ½ oz., $2.50; pkg. 4,000 seeds, $1; ½ pkg., 50c. E. B. Jennings, Southport, Conn.

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Seeds, pansy, 1,000 mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

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Seeds, sweet peas, tomatoes, Lima beans, lettuce, asters, cosmos and other flower seeds. John Bodger & Sons, Gardena, Calif.

Seeds, growers for the wholesale trade only. Brasian Seed Growers' Co., San Jose, Calif.

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Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

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Smilax, A-1 plants, 2½-in., $2 per 100. Cash please. S. W. Carey, Urbana, O.

Smilax, 2,000 strong, bushy plants in 2-in. pots, $2. Joy Floral Co., Nashville, Tenn.

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Smilax, $1.25 per 100. Jos. H. Cunningham, Delaware, O.

Smilax, 2½-in., $2.50 per 100; $20 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Smilax, nice plants, fall sown, transplanted, 50c per 100; $4 per 1,000. F. A. Baller, Bloomington, Ill.

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Smilax, 3-in., $4 per 100; $35 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

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Spireas. J. Smits, Ltd., Naarden, Holland.

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Stokesia cyanea, field-grown, 90c per doz.; $6 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

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Vegetable plants, cabbage, fieldgrown, leading vars., $1 per 1,000; 10,000 and over, 85c. Celery: White Plume, Golden Self Blanching, Giant Pascal, $1 per 1,000. Eggplant: N. Y. improved and Black Beauty, $3 per 1,000. Lettuce: Big Boston, Boston Market, Tennis Ball, Grand Rapids, $1 per 1,000. Pepper: Ruby King, Bull Nose, Sweet Mountain, Neapolitan, $2 per 1,000; Chinese Giant and Cayenne, 50c per 100. Parsley, $1.25 per 1,000. R. Vincent, Jr., & Sons Co., White Marsh, Md.

Vegetable plants, cabbage, $1 per 1,000; 5,000, $4. Cauliflower and peppers, $2.50 per 1,000. Tomatoes, $1.50 per 1,000. J. C. Schmidt, Bristol, Pa.

Cabbage plants, all kinds, 1,000 $1; 12,000, $10. Glick, Seedsman, Lancaster, Pa.

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Vinca var., 2½-in. and 4-in $2.50 and $8 per 100. J. S. Hennon & Son, Wampum, Pa.

Vinca var., 2-in., $2 per 100. Geo. M. Emmans, Newton, N. J.

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Marie Louise violet plants, selected stock, grown on tile benches, free from disease, ready for planting. Can ship upon receipt of order, $15 per 1,000. Cash. J. Vonder Linden, Rhinebeck, N. Y.

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Weiland & Risch, 59 Wabash Ave., Chicago.

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Boilers, improved greenhouse boilers, made of best material, shell firebox sheets and heads of steel; water space all around front, sides and back. Kroeschell Bros., 45 Erie St., Chicago.

Boilers, the Superior Improved internal fired boiler. Made in 10 sizes to heat from 2,000 to 6,500 feet of 4-in. pipe. Superior Machine and Boiler Works, 124-133 W. Superior St., Chicago.

Boilers, special hot water boiler shipped ready for operation. Repairing done on all kinds of greenhouse boilers. Chris. Pfeiffer Boiler Co., 66 Michigan St., Chicago.

Boilers, corrugated, firebox and sectional greenhouse heating. Hitchings & Co., 1170 Broadway, New York.

Boilers, Myers & Co., 1122 Betz Bldg., Philadelphia.

Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, New York.

Boilers, boilers of high grade for greenhouses. Steam or hot water. Giblin & Co., Utica, N. Y.

Boilers, steel return tubular, steam or water. Johnson Heating Co., 138 E. 31st St., New York.

Boilers, water tube steam boilers. King Construction Co., North Tonawanda, N. Y.

BUILDING MATERIAL.

Building material, cypress sash bars, greenhouse material of any description. Write for catalogue. John C. Moninger Co., 113 Blackhawk St., Chicago.

Building material, hotbed sash, cypress, unglazed, 95c each; in doz. lots, 90c; glazed, $1.65 each; doz. lots, $1.60. Pine sash, unglazed, 90c; doz. lots, 85c; glazed, $1.60; doz. lots, $1.55 each. Building hardware, wire and wire fencing, bolts, hatchets, hammers, etc. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

Building material, cypress sash bars, Tennessee red cedar posts, pecky cypress benches, hotbed sash and frames, ventilating apparatus, pipe fittings and all supplies needed in new or reconstruction work. Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Building material. Cypress is far more durable than pine. Cypress sash bars up to 32 feet or longer. Greenhouse and other building material. Men furnished to superintend erection when desired. A. T. Stearns Lumber Co., Neponset, Boston, Mass.

Building material of all descriptions for all cypress semi-iron frame or truss houses. Hotbed sash and frames. Lord & Burnham Co., 1133 Broadway, New York.

Building and propagating sands, fire brick and fire clay. Portland cement, hard wall plaster. Garden City Sand Co., Security Bldg., Chicago.

Headquarters in Canada for Cypress Sash Bars or anything in wood for building purposes. Established 1851. John B. Smith & Sons. Ltd., Toronto, Can.

Building material, greenhouse material and hotbed sash of Louisiana cypress and Washington red cedar. A. Deitsch Co., 617 Sheffield Ave., Chicago.

Building material for U-bar greenhouses. Pierson U-bar Co., Metropolitan Bldg., 4th Ave. and 23d St., New York.

Pecky Cypress. Williamson-Kuny Mill & Lumber Co., Mound City, Ill.

Building material, cold frames, hotbed sash, Hitchings & Co., 1170 Broadway, N. Y.

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Fans. Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Wizard Shredded Cattle Manure, 100 lbs., $1.20; 500 lbs., $5; 1,000 lbs., $8; 2,000 lbs. $13. Pulverized Manure Co., 32 Exchange Ave., Union Stock Yards, Chicago.

Thomson's vine, plant and vegetable manure. Wm. Thomson & Sons, Ltd., Tweed Vineyard, Clovenfords, Scotland.

Vaughan's Rose Grower bone meal, Vaughan's Seed Store, Chicago and N. Y.

GLASS.

Glass importers and jobbers; greenhouse glass a specialty. Window glass. James H. Rice, corner Michigan, St. Clair and Illinois Sts., Chicago.

Glass, greenhouse glass a specialty; also window glass. Sprague, Smith & Co., 167-9 Randolph St., Chicago.

Glass. French and American. "White Rose," Stenzel Glass Co., 2 Hudson St., N. Y.

Glass. High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-123 W. Washington St., Chicago.

Greenhouse glass. Baur Window Glass Co., Eaton, Ind.

GLAZING POINTS.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c., postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 2 sizes, ⅝ and ¾, 40c per lb.; 16c extra by mail; 7 lbs., $2.50, 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, New York.

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Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, New York.

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Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham Co., 1133 Broadway, N. Y.

Gutters, Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides. Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

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Knives, razor steel, hand forged, postpaid; Propagating, 50c; Budding, 35c; Grafting, 25c; Pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, O.

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Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit.

MISCELLANEOUS.

Everlasting tile benches, hollow tile, partition tile, fire proofing and other clay products. The Camp Conduit Co., 718 Garfield Bldg., Cleveland, O.

The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

Printing. Large runs of catalogues a specialty. Write for figures, Regan Printing House, 89-91 Plymouth Place, Chicago.

Cut flower boxes. C. C. Pollworth Co., Milwaukee, Wis.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Wire rose stakes and tying wire. Model plant supports. Igoe Bros., 63-71 Metropolitan Ave., Brooklyn, N. Y.

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Engravings of all kinds. Dearborn Engraving Co., 1322 Wabash Ave., Chicago.

Printing for florists' catalogues. Gorham & Chapline, 114 Sherman St., Chicago.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg, Ill.

Wittbold cement post moulds. E. H. Hunt, 76-78 Wabash Ave., Chicago.

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Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A., New York.

Hyacinth vases. Nicholas Wapler, 28 Warren St., New York.

Sulfur Burners. Benjamin Dorrance, Dorranceton, Pa.

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Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, Putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, Paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Mastica, Vaughan's Seed Store, Chicago and New York.

Mastica. F. O. Pierce Co., 12 W. Broadway, New York.

PIPE, FITTINGS, ETC.

Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western and 26th, Chicago.

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Iron fittings, patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

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Pots, Standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots, Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, New York.

Pot hangers. Kramer's $1 a doz., exp.; $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

The Red Pot. C. C. Pollworth Co. All roads connect with Milwaukee.

Free to florists—Sample box of red pots. George E. Feustel, Fairport, Iowa.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

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Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 for 1,000. Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

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Steam traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

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Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

Tin foil. Vaughan's Seed Store, Chicago and New York.

Supplies. Cape flowers, cycas leaves, metal designs and all florists' supplies. A. Herrmann, 412 East 34th St., New York.

Supplies, wire designs. Pittsburg florists' Ex., 228 Diamond St., Pittsburg, Pa.

Supplies of all kinds. H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.

Supplies of all kinds. H M. Robinson & Co., 8-11 Province St., Boston.

Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

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Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

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Sterling iron reservoir vases. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

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what you pay for the advertisement but what the advertisement pays you. It pays to advertise in the **American Florist.**

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

OUR genial Secretary Willis N. Rudd, succeeds fairly well in keeping up with the fashion. He now wears his hair a la pompadour.

"THE cigar that made George Watson famous" is advertised in the New York Florists' Club outing book by a Philadelphia firm.

New York Florists' Club Outing.

The ninth annual outing of the New York Florists' Club took place, as announced, at Duer's Whitestone park on July 1. A large company of "stately dames, faire damsels, gallante gentlemen and joyous cherubes" were carried to the park from the foot of Thirty-first street on the East river greyhound, "Ye good ship Ysabelle." A number arrived by other routes, swelling the crowd to a grand total of 501. Not a sea serpent was seen on the voyage down the sound, and there was no seasickness, so everybody was ready for the elaborate breakfast which Mine Host Duer had prepared. At breakfast there was an appropriate allusion to the late lamented president of the club, E. V. Hallock, while the whole company remained standing. A group photograph was taken on disembarking.

After breakfast the fun began in earnest and was kept up without intermission throughout the remainder of the day. The only drawback was that there was so much good sport going on at the same time in different parts of the park, that it was hard for one person to see it all. The games and races were well managed and came on schedule time. We can recall no local gathering so well attended by all branches of the trade and allied trades as was this outing and Chairman Bunyard and his committee are herewith tendered sincere congratulations.

NOTES.

The most popular innovation of this year was the serving of two meals instead of one as formerly. Racing, playing ball, bowling and dancing are all conducive to hunger and the good dinner served just before the boat started on the homeward trip was just what was needed to put everybody in the best of humor.

There was plenty of good music and an interesting and entertaining personality was the Highland piper in kilts and plaid. In this connection, the dancing of the young folks, clad in similar costume, to the music of the bagpipes, was a real treat.

It was interesting to note that both old and young of both sexes entered thoroughly into the spirit of the games and races; in fact, had it not been for so many gray hairs a casual observer might have supposed that it was a company of young folks.

Dards, Wadley & Smythe, Young & Nugent, Bogart and other leading retailers, sent large delegations from their stores. Myer and Robert Kuhne were there in person.

Madison, N. J., was well represented, as it was bound to be when Charles H. Totty and Robert M. Schultz were present, and there were others.

Ex-president Traendly won the fat men's race as he always does. The only way to beat him will be to get him into a marathon race.

SNAPSHOTS AT THE NEW YORK FLORISTS' CLUB OUTING BY ALEX. J. GUTTMANN.

(1) A Lot of Juveniles. (2) A. H. Langjahr to Right; Mrs. Langjahr to Left. (3) A Well Known Supply Man Who Claims to Be a Bachelor. (4) Another Group. The Tall Man Is a Buyer for a Retail Firm Who Has a Grouch Against Wholesalers. (5) Evidently Going Somewhere.

President Turner, Secretary John Young and Treasurer Rickards of the club were all beaming with joy at the success of the affair.

The Barclay, Vesey and Cortlandt street seedsmen did nobly, Patrick O'Mara being the dean.

F. R. Pierson, Benjamin Hammond and Robt. Simpson were all there and evidently enjoyed it.

SOME OF THE EVENTS.

Gentlemen's bowling, three frames.—The first prize ($10) given by John I. Raynor, was won by Andrew Wilson. The second prize, (Revero Hose value $9) given by E. W. Holt of Cut Flower Exchange, was won by Rassback. The third prize ($5) by W. B. Rickards, was won by Meconi. The fourth prize, (bowling ball), given by N. C. Schreiner, was won by Meisem. The fifth prize given by Louis Schmutz, was won by Fenrich. The sixth prize, given by Louis Schmutz, was won by Kessler.

The baseball game, (Benedicts vs. Bachelors.)—Host Duer's prizes (10 bottles wine and a box of cigars) was won as usual by the bachelors. The players were (Bachelors) Messrs. Manda, Reichers, Wuestman, Krekler, Reigo, Golbert, Cantillon, Tierney and Fred Krekeler, against Messrs. Hildebrandt, Handel, Hornecker, Bogart, Phillips, Reunison, Meyer, Waibel and Allen, with Wm. Kessler, umpire. Score 7 to 0.

The tug of war, Seedsmen vs. Florists; ($10) for the winners. Prize given by Henry & Lee was won by the Florists. W. A. Manda, (anchor); Messrs. Hornecker, Wagenfohr, Weissman, McMullen, Lorenz, J. Manda. Seedsmen, Robt. Clucus, (anchor); Messrs. Breen, Gayner, Low, Gayner, O'Mara, Hughes, Van Sypveld, Adams, Rickards and Wheeler. This was one of the grandest contests of the day.

Ladies' race over 20.—Prizes by P. O'Mara ($10), Alex. Guttman, ($5) and M. A. Bowe, ($5) were won by Agnes Birnie, first; Margery Birnie, second; Emma Golsner, third, and Anna Secker, fourth.

The mile race.—Prizes by Alex. McConnell, ($5); Charles Millang, ($5). Paul Rigo, first; Al. Rigo, second; Chas. Bogert, third. A great race, winner four minutes one second.

Married men's race.—Prizes by Young & Nugent, ($5); Ford Bros., ($5). A. H. Donaldson, first; Phil. Kessler, second; Henry Weissman, third.

Young ladies' race 12 to 16. The Jno. A. Scollay prizes ($10)—Anna Miesen, first; Jeannie Birnie, second; Freda Schenck, third.

Quarter-mile race.—Prizes by Yokohama Nursery Co., ($10). P. H. Kingston, first; S. Gilbert, second; A. W. Sperling, third.

Boy's race, 5 to 8 years.—The Bobbink & Atkins' prizes ($5). Ira Freeberg, and Jos. Walter dead heat; George Walter, third.

Boy's race, 8 to 12.—Prizes by F. H. Traendly ($5). George Harvey, first; Robert Burnett, second; W. Manda, third.

Throwing the ball longest distance.—Prizes by Lager & Hurrell, ($5). Phil. Kessler, first; Iler, second.

At Chicago.

But 15 games more remain to be rolled in the competitive bowling now in progress at the Bensinger alleys that will decide the team that will represent the local Florists' Club at the S. A. F. convention. Of the 10 leading pin getters, Frank Ayres and Victor Bergman were the only ones to improve their standing last Friday evening. John Zech still retains the lead with an average for 12 games of 178 7/12. A. Zech and Geo. Asmus are close up with 172 2/15 and 172 1/12 respectively, and are followed in the order named by V. Bergman, 165 8/15; T. Graff, 156 4/9; W. Wolf, 155 4/6; F. Ayres, 152 2/15; E. Winterson, 149; T. C. Yarnall, 148 12/15; F. Pasternik, 147 14/15. Last week's score follows:

F. Ayres	142	164	158
A. J. Eckert	117	128	141
R. Tuttle	98	109	150
T. C. Yarnall	160	113	116
F. Pasternik	124	168	161
Craig	122	109	146
A. Zech	171	212	126
V. Bergman	177	178	157
J. Zech	162	178	190
O. Goerisch	184	139	137
J. Degnan	160	115	108
G. Asmus	154	164	197

Otto Goerisch won first prize in the handicap bowling match Friday evening. John Zech, at scratch, taking down second money.

The retail florists have fallen in line with the wholesalers and have agreed to close their places of business at noon on July 22, the day set for the Florists' Club picnic.

Anyone wishing to play on either of the baseball teams at the picnic of the Florists' Club should send in their names, with the position they can play, to A. Zech, 51 Wabash avenue.

At Pittsburg.

FLORISTS' PICNIC.

The picnic committee of the Florists' and Gardeners' Club has arranged for the club picnic on Thursday, July 15, at Keystone park, Elfenwild station. There will be music, dancing and refreshments. Trains leave B. & O. R. R. Allegheny depot at 11:10 a. m., 3:25 p. m., 5:20 p. m., 6:15 p. m., returning 4:53 p. m. and 6:48 p. m. Fare, 40 cents round trip. You are requested to notify the committee at once if you will attend and the number with you. Address: The Committee, 222 Oliver avenue, Pittsburg, Pa.

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PULVERIZED SHEEP MANURE

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A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

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Ask your supply man or write for circulars and prices.

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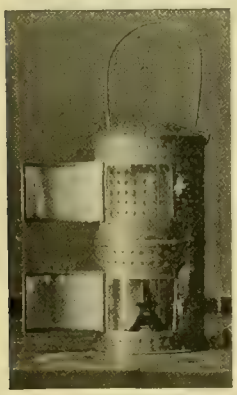

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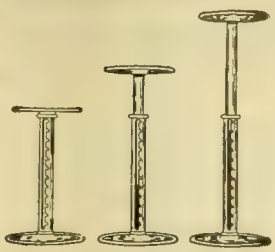

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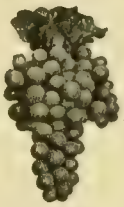

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Hitchings & Company Elizabeth, N. J.

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Advance Machine

Pleases our customers or we could not sell 68 machines to one florist; 38, 37, 34, 32, 25, 24, 17, 16 machines to as many other florists. We give them better service than anything they had before. All we need is a trial order to convince you that we have the best machine on the market. Our prices are in plain figures. Free estimates for the asking.

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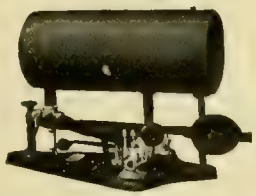

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Dear Sirs:—If your trap cost ten times what you ask for it it would be cheap when time, labor and cost of repairs are considered, in comparison with the steam pump I had installed before getting your trap.
I cannot praise it too highly and I recommend it to everybody who talks steam.
Yours truly (Signed) F. W MEYERS, Prop. Riverside Greenhouses.

Catalogue on request.

MOREHEAD MFG. CO., 1047 Grand River Avenue, **Detroit, Mich.**

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HOT WATER BOILER.

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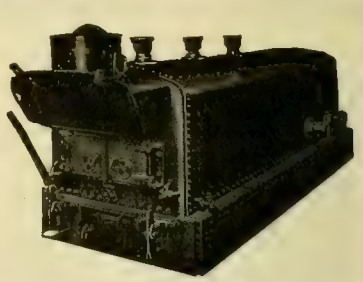
Prices and catalogue on application.



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Send for catalog.

Syracuse, N. Y.

June was a busy month here. There were, in addition to the large number of June weddings with their great demand for cut flowers and potted plants, a large amount of funeral work and considerable call for plants for flower beds. One man reported to the police this week that after he had worked far into the night putting plants in his front lawn he arose in the morning to find that all had been stolen.

The local trade took considerable interest in an exhibition of rare ferns under the auspices of the Onondaga historical association at the association's building, the rooms of the lower floor of which are filled with rare species of ferns, coming from all over the world and presented by the local botanical club. Nearly every state in the Union was represented and there were ferns from the Hawaiian islands, New Zealand and Australia. The gold and silver ferns from California attracted considerable attention. Notwithstanding the vast area covered central New York ferns could not be outdone for rarity or beauty, including the walking fern, indigenous to this county. The end of each leaf sprouts into the ground and sends forth a new fern and as many as five continuous growths have been found unbroken.

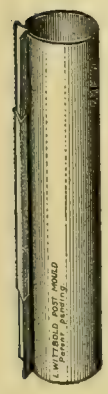
James Barton, a New York Central railroad passenger conductor, is showing a moss rose unlike the average. He brought a bouquet of the roses from his garden at Parish and they were generally admired for their beauty and rarity. The blossom is perfectly round and solid. It is surrounded by a heavy border of moss resembling to some extent ground pine. Mr. Barton sent specimens to a number of experts and all declared they had never seen a more perfect moss rose nor one of the same sort of development.

Picking lilacs in the city's parks has proved to be an unprofitable business for a number of men. One man with two sprigs which he said he picked for his wife's grave was fined $5. Two other men were similarly dealt with. The police captain's office was fragrant with blossoms for several days, but the captain didn't seem to mind how many flowers were stolen so long as the offenders were arrested. There has been unusual vigilance on the part of special park police and the city patrolmen to protect the park flower beds.

A. J. B.

CEMENT POSTS

For Your Benches.

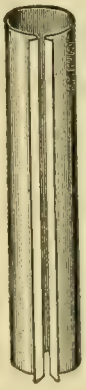


It makes no difference whether you build wood or cement benches you are losing money unless you use the cement post. Its cheaper than wood and lasts for ever.

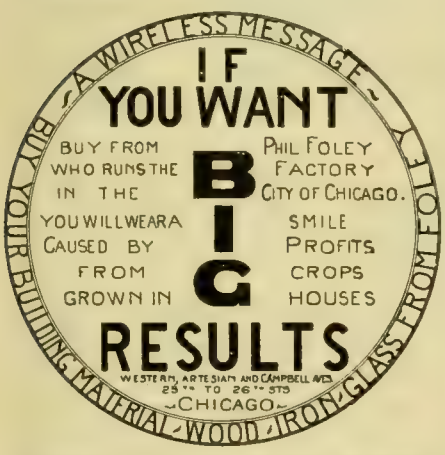
The Wittbold Post Mould

is the cheapest and quickest to operate Get a few and try for yourself.

Ask for Free Booklet that tells you how to build cement benches.



E. H. HUNT, 76-78 Wabash Ave. CHICAGO.



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If you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler Heating Material or Building line. **Write for price list on Iron Pipe.**

A Few Special Boiler Bargains.

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old; 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler 125 lbs. pressure.

1-48x21 locomotive fire box boiler. 60 horse power 100 lbs. pressure

24-Horizontal tubular boilers, triple riveted: ½-in. shell ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

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Good for 60 lbs. pressure. Free from patches, bulges or blisters.

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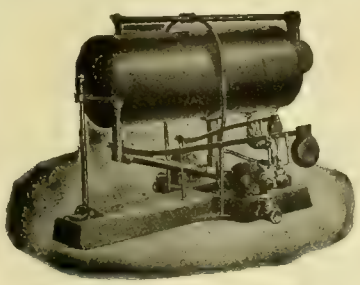
And You Buy a Guarantee.



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It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

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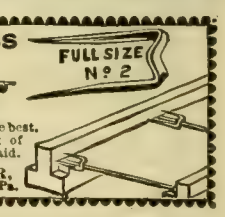

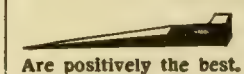

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RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert. Baum & Beatty Sts., Pittsburg.

Louisville.

TRADE FAIR.

Business conditions were fair the past week. Roses can be had in good quantities and find a fair demand, the quality being good. Carnations are getting very poor but have a satisfactory demand. The very hot weather is finishing up the sweet peas, which have had a very good demand this season. Other stock can be had in satisfactory quantities and finds some demand.

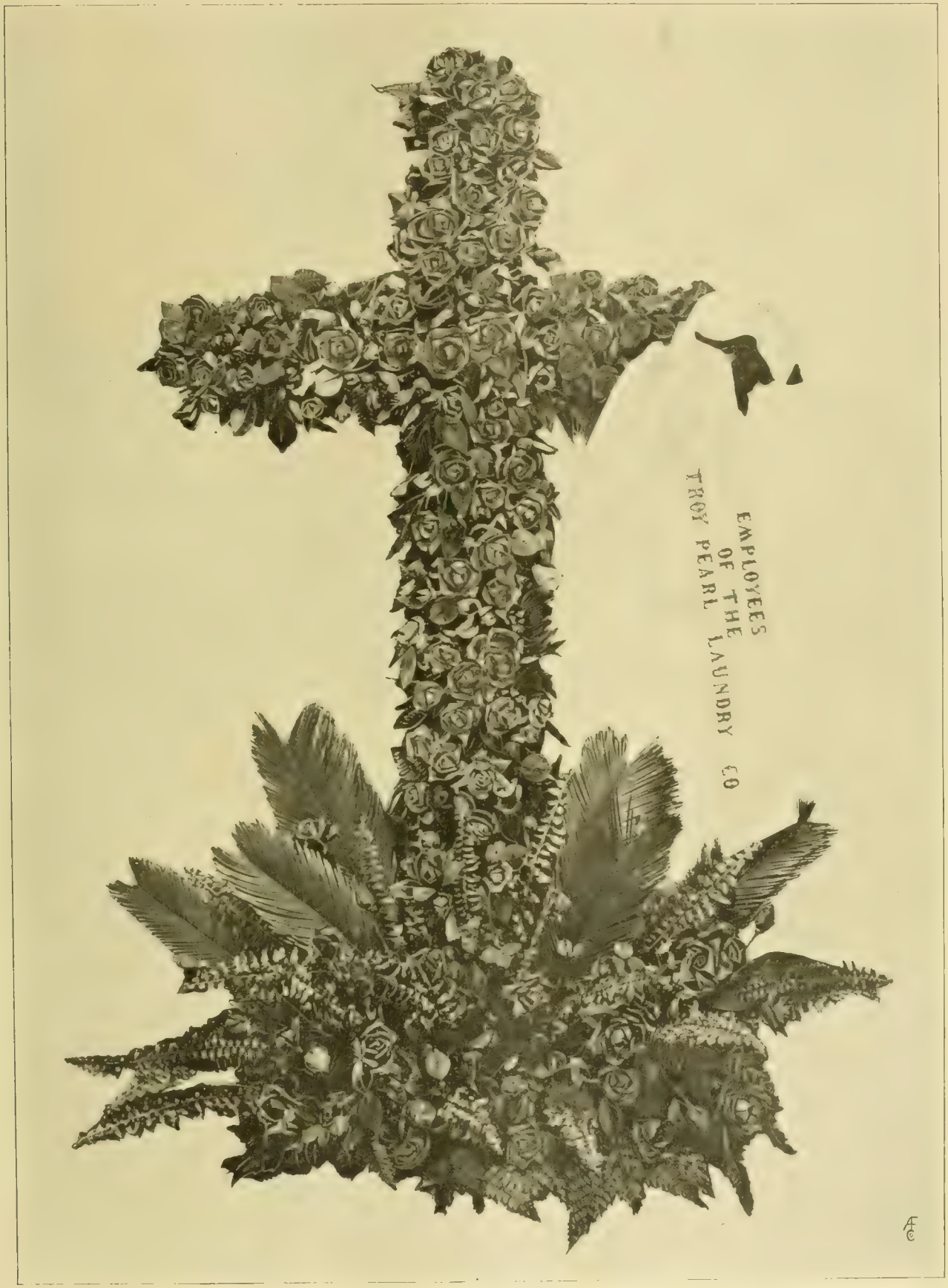
NOTES.

The Kentucky Society of Florists will hold its annual picnic at Stower's grove July 22 and a good time is looked for. All the leading stores will close at least a half day. The committee is working hard to make it the banner picnic.

Jacob Schulz had one of the best windows seen for the Shriners' convention. Mr. and Mrs. Schulz will leave July 3 for a long trip to California and other interesting points.

The Florists' bowling club has disbanded for the summer. F. L. S.

EVERETT, MASS.—The board of aldermen has passed an order for the borrowing of $1,500 for the repairing of Glenwood cemetery greenhouses.



SIX-FOOT CROSS OF RICHMOND ROSES

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, JULY 17, 1909 No. 1102

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.: Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January, 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the everyday florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR CUT FLOWER GROWERS.

Early Forcing Bulbs.

Procrastination, we are told, is the thief of time, and delay in ordering the bulbs for early forcing will mean more than time lost; it will probably mean the loss of good hard cash for the florist who loses the early market for Roman hyacinths, Paper White narcissi and similar stock. The grower who has figured on his wants for the coming season should get his order in for the bulbs at once. He will get a better selection of bulbs than if he waits longer and the earlier they are in and planted the more root they will make before being needed for forcing. As soon as they are received have the flats and soil ready and plant the bulbs. There is not much time for resting them, but they should go into a cool, shady place for a week or two before going into the forcing house. Any ordinarily good light soil will suit them. The Paper White narcissi can be planted fairly thickly, as the bulbs are large, while two inches apart either way is close enough for the hyacinths. Give one good soaking of water before putting the flats under the benches or wherever they are to go and little more will probably be needed before they are wanted for forcing.

Peonies.

Some growers appear to think that when the flowers are cut from peonies the work of the season is over. But if good flowers are looked for another year, especially from the older plants, the growing season is only half over in July. The foliage may have attained almost its full proportions and not much more growth will be apparent, but the roots are actively searching food that the leaves are elaborating and supplying to the forming crowns underground. Anything that can be done, then, in the way of cultivating, mulching or supplying liquid manure will not by any means be wasted. Very often the ground between the rows gets trodden down hard when gathering the flowers, and, if rain has fallen during that time, the July sun bakes the surface hard like bricks. It will be time well spent to go over this and lightly prick it up with a fork, thus letting in the air and insuring the roots the full advantage from any rains that fall. In doing this care is needed not to touch or disturb the roots, but there is little fear of this if ordinary care is taken, as it is not necessary to go very near the stems of the plants.

Gardenias.

The gardenias are fairly reveling in the great heat and no better weather could happen for these heat loving plants. Bright sunshine, tempered with any amount of atmospheric moisture, the roots well fed and the tops sprayed regularly. This is the simple regime for gardenias to enjoy life under. But the moisture must not be allowed to slack or the foliage will be ruined, either by sun or by insects, so keep the hose going under the benches, on the walks and on every dry spot in the house continually. The roots by now have taken a good hold of the soil and are looking for more food than is contained in it. Soot water is an excellent stimulant for these plants, keeping the foliage deep colored and healthy and causing a fine growth. Used alternately with manure water and nitrate of soda it is a fine aid to the gardenia grower. The shoots must be kept regularly pinched and not allowed to produce flower buds. By this means and the stimulating heat and moisture young stock from cuttings will soon make splendid bushes, while old stock cut back will be rejuvenated and give plenty of flowers later.

Mulching Outdoor Flowers.

Much of the time spent in watering outdoor stock at this time of year may be saved by simply placing a mulch of semi-decayed manure over the surface soil. A weekly watering of stock protected by such a mulch will do more good and produce better results than a daily watering without it. It keeps the sun from the surface and prevents rapid evaporation and loss of moisture, while the moisture rising from it, both by night and day, is a great help to the plants, keeping them healthy and clean. Only a few inches of light material is needed. Heavy dressings of rich and strong manure do more harm than good. Once get the soil thoroughly

moist under a mulch of the above description and the plants will thrive no matter how hot the weather.

Asparagus Sprengeri.

Cut flower growers always have a call for this useful green and as there are plenty of other greens now it is a good time to go over the benches and clean the plants. Careless cutting of the sprays often leads to stubby shoots being left and these make a thick mass in the center of the plant that is useless for cutting or for any other purpose. These should now be cut clean out as well as any older stems that are damaged and unfit for sale. A top dressing of rich soil is a great help after the cleaning has been done, but first make sure that the bench is wet right to the bottom or it will be difficult to get water down to it afterwards. This asparagus is a thirsty subject when well established and rooting freely. Besides water a thorough soaking of liquid manure every week is helpful. Be careful in applying this not to let any be spilled on the foliage or it will burn when the sun strikes it and make the sprays unfit for sale. A bench should be planted now with young seedling stock, about a foot between the rows being a good distance. Shade for a few days and spray freely, but avoid overwatering the roots until they are again running freely in the new soil.

Young Stock Outdoors.

Violets, forgetmenots, pansies, wallflowers and all such stock should not be neglected now. Cultivation between the rows of violets and the removal of all side shoots as they form is the chief work among them. Forgetmenots must be made over where any have missed and a good watering given if they are dry. Spraying regularly and a light shade during the hottest part of the day is a great help to these plants and helps to keeps mildew in check. The wallflowers will stand plenty of sun and should be in the most open and airy position at command. Young plants of campanulas should be pricked out and watered regularly until they have taken hold while it is not too late to make another sowing of these and Alyssum saxatile, one of the best of yellow flowers for early spring cutting. Seedling pyrethrums should be planted out now in a position where they can be protected during winter, a plant protector, if it can be spared, or a warm border. Many other herbaceous and biennial subjects may be sown now, delphiniums, Canterbury bells, gaillardias and doronicums, while cuttings may be inserted of any shrubby stock such as Hydrangea paniculata, weigelas and many others. Half ripened shoots about four inches long with the lower leaves removed and the shoots cut straight across are the best cuttings and these should be inserted in frames where they can be kept moist and lightly shaded until roots have formed. Any time that can be spared for the herbaceous border may be spent in removing flower seed pods, mulching any plants that need it and supporting flowering plants and none of this will be wasted or unproductive.

AT THE WASHINGTON AUTOMOBILE PARADE JULY 5

Winner of $50 First Prize by Gude Bros.

AT THE WASHINGTON AUTOMOBILE PARADE JULY 5.

Winner of $100 First Prize by Gude Bros.

THE RETAIL TRADE

O. J. FRIEDMAN, of Chicago, has pushed the steamer idea a little further by placing one in water in his window. Some magnificent Japanese irises were also shown in his window during the early part of the present week.

Basket of Single Dahlias.

SEE SUPPLEMENT WITH THIS ISSUE.

The double dahlia though a fine garden flower, is too heavy in appearance for much of the decorative work which a retailer is called upon to do. Skilful men, it is true, use it with excellent effect and turn out fine work, but the double fancy or show forms have a lumpy effect in the hands of unskilful men. This charge cannot be brought against the single forms. Borne on long, slender stems and of bright and effective color, they are very beautiful in all classes of decorative work and in none are they better than in baskets. Dahlia foliage is not always attractive, but a little of the fresh green used with the flowers is an aid, especially if combined with a few buds and half opened flowers.

The colors of the single dahlias have been greatly improved of late years and among them are delightful soft tints that harmonize well with any other flowers, also deep scarlet and almost black forms that are striking and effective alone. Then there are yellows with shadings of red or purple and many tints almost indescribable. The old Paragon forms, too, with dark,

AT THE WASHINGTON AUTOMOBILE PARADE, JULY 5.
Z. D. Blackistone's Special Delivery Car.

nearly black lines, running over a lighter background are good for this class of work. The single dahlia may be described as a thirsty subject and must be kept in water up to the last minute before being used, while, if possible, some wet moss should be used around the stems to keep them fresh as long as possible.

Prize Automobiles at Washington.

The procession of automobiles at the Fourth of July parade at Washington, D. C., was a gorgeous spectacle, some 200 cars, all more or less profusely decorated, taking part. Gude Bros. were very successful, as out of four machines decorated by this famous firm three received first prizes. Two of these were silver cups valued at $100 each, the other a silver loving cup for the "Old Glory" prize. We reproduce two of the winning cars and the other two were equally beautiful, all so good that we found great difficulty in deciding between them. This the judges at the parade also found a difficult task, needing "long, careful and serious deliberation," according to the Washington Post. But it is due Gude Bros. to say that the notes of the judges proved to agree in every particular. We congratulate the firm on its splendid success, as well as on the artistic ability shown in the work of decorating the cars. Wm. F. Gude of this firm read the declaration of independence on this occasion.

Z. D. Blackistone was also very successful, winning the $500 sweepstake prize for the elegant car shown as drawn by a swan. Several other splendid cars were decorated by this noted florist and further particulars are given below of these and other successful exhibitors. So good in fact were many of these that we can only reiterate our regret that we have not space to figure any more. The Blackistone cars were elegant in the extreme and helped to round out a magnificent spectacle that will long be remembered in the capital city. Congratulations, Mr. Blackistone.

The Washington Automobile Parade.

GRAND INDEPENDENCE DAY SPECTACLE.

Never before have the citizens of Washington showed such great interest in patriotic exercises as on July 5 of this year, on which day the floral auto parade took place. Almost the entire city seemed to be crowded into Pennsylvania avenue to view the floral bedecked cars, which were transformed into floats, motor boats, steam launches, yachts, and many other appropriate conveyances. The idea was born in the columns of the Washington Post, and met with such great success, that no doubt it will hereafter become an annual occurrence. Although somewhat handicapped by the shortage of natural flowers the florists managed to pull through by combining the artificial with the real and the spectators no doubt had a difficult time distinguishing one from the other. The parade started in front of the Post building, making a tour around the capitol, back to White House, then to the speedway where the judges were seated.

Wm. F. Matteson captured the sweepstake prize, a $300 cup; the car was transformed into a gondola, drawn by a swan made of crumpled white satin; the idea originated from an old legend, that in days gone by, this sort of craft was led down the Rhine by a swan, according to the opera Lohengrin. A child held the reins of white ribbon which guided the swan on its journey. The car was decorated by Z. D. Blackistone. Another sweepstake prize of a $200 diamond ring was won by Mrs. Matteson. This car was of the electric style and was transformed into a large basket filled with pink roses. A wistaria arbor, captured second prize. In class B, electrics, Z. D. Blackistone won first prize, a $100 silver cup, for Mrs. Lester D. Moore. This machine was made to represent a shell effect in pink and white; the third prize was awarded to Hahn Shoe Co., for its floral airship.

A blue ribbon was awarded to the decorator of the cars winning the sweepstakes, which Z. D. Blackistone had the honor of winning. In class A, Gude Bros. won the first prize for Arthur D. Moses, with canopied car decorated in pink roses, the owner received a $100 silver loving cup. Third prize was won by Geo. C. Shaffer for John A. Lutz. The Defender a floral effect achieved after much labor and

AT THE WASHINGTON AUTOMOBILE PARADE, JULY 5.
Shell Car of Pink and White, Winner of Loving Cup, Value $100, By Z. D. Blackistone.

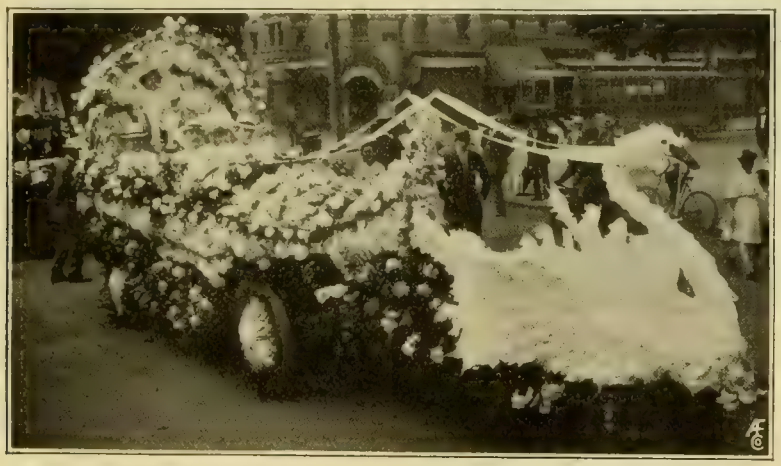
expense and one almost impossible to accomplish with an automobile, was a yacht equipped with real canvas sails towering high in the air; it was built along the identical lines of a vessel built for water sailing; $25 in gold was awarded the owner. The Merrimac, another creation of Geo. C. Shaffer, a somber, ominous looking craft equipped with cannon, and with fire shooting from her smokestack, together with her decorations of red roses, and morning glory, succeeded in capturing first prize, $100 cash, for most unique entry in the parade.

In class B, the second prize was won by Shaffer, for Mrs. Spence. This auto was decorated with red white and blue, and a parasol was arranged over the lady at the wheel. In the front of the car was arranged a shield of immortelles which was surmounted by a baldheaded eagle, the prize value $50. Another second prize of $15 was awarded for motorcycle decoration by Shaffer. In the commercial class Gude Bros. captured first prize, $100 silver cup, for delivery wagon trimmed in white and green cloth and natural roses. This firm also secured first prize, $100 loving cup, for the most beautiful display of the American flag. This was known as the Old Glory prize.

Marche & Co. captured $5 in gold for decorations of miniature auto operated by a boy about 12 years of age. The artistic taste was displayed however on the Taxicab Co.'s car which received second prize. This car was apparently drawn by a flock of doves, which were so arranged as to protrude far in advance of the car. Aucubas, red and white hollyhocks, Asparagus Sprengeri and ribbon grass were used extensively, and the monogram "T. T. Co." in red immortelle letters, adorned the top of the car.

Many other beautifully decorated autos were in the parade, one of them a patriotic setting, consisting of Liberty bell with its huge crack, Columbia holding the American flag and protecting the bell, and Second Colonial soldiers operating the car completed this float; no prize was issued for certain reasons, known best to the judges. An airship modeled after Zeppelin won second prize in the grotesque class.

G. S.



AT THE WASHINGTON AUTOMOBILE PARADE, JULY 5.

Sweepstake Winner of $300 Loving Cup by Z. D. Blackistone.

THE CARNATION.

WINSOR is still the best flower in its color though Winona is quite its equal, if not its superior, as a producer. There is room for both.

Around the Carnation Houses.

Where only field stock is grown and where the flowers are not cared for much after Decoration day the carnation houses for the past few weeks have not been particularly interesting places to visit. But the Fourth of July fireworks are the signal that the short resting season will soon be over and the carnation men wake up to the fact that another season is upon them. Throwing out the old plants and filling the benches will be the order of the day now. It is well to be sure that all benches are in good shape and any repairs necessary should be carried out immediately before bringing in the new soil. With concrete benches this does not apply, but carnation growers have not, as far as our experience shows, gone in so heavily for concrete as the rose men.

The depth of soil on the carnation benches is a debatable point. Possibly the majority of growers would give five inches as the best depth, and this certainly has custom in its favor. During hot dry weather the full five inches is an advantage rather than not, but there comes a time in winter, say in dull or wet weather, when the benches have been well watered, that this depth of soil takes a very long time to dry out. Now every carnation grower, every grower of any experience, in fact, in any line, knows that it is not good for the plants to be in a moist condition for a long time. The more rapidly in reason the benches dry out and the oftener they have to be watered the better. Each watering carries down with it a certain amount of fresh air to the roots, and of this they are always in need. Plants with their roots constantly in close wet soil cannot thrive for the very reason that air does not reach them in sufficient quantity. This certainly makes a thinner layer of soil desirable, and although we do not wish to be dogmatic about it, we are convinced that from 3½ to four inches is ample if the plants are well fed when they need it.

Many growers have their favorite varieties and stick to them year by year on the principle that when a good thing is found it is best to hang on to it. And so it is until a better one can be found, but new kinds should be tried with a view to finding out which are real improvements and which are not. Among the novelties in reds this year probably no other will be so generally planted as O. P. Bassett. Although new to the trade generally, this has been so well tried out at the raisers' place and has made such a name for itself on the Chicago and other markets that its planting is not looked on as a gamble, as so frequently happens with novelties. It has already a secured position and will be very largely grown. Then we have those excellent stand-bys Victory and Beacon. Some growers prefer one, some the other. Beacon is a stronger grower than Victory and needs more room, but is a most remarkable producer. Victory also is an excellent producer and has, we think, slightly the advantage over Beacon in color. In whites White Enchantress is a splendid variety and it is hard to see how it can be improved upon. White Perfection is a magnificent show carnation but possibly not quite as free as the last named. Mrs. J. C. Vaughan is well spoken of as a free bloomer and very constant all through the season. White Lawson is losing favor and although this and Boston Market will still be grown there appears to be no doubt that their race as first class varieties is run. In pinks Enchantress still holds sway; it is unassailable in its class. Mrs. Lawson is still grown largely and many growers have still great faith in it as a good winter bloomer and shipper. Aristocrat, notwithstanding its past popularity, still gains ground. It is a grand carnation and will be doubtless grown for many years. Those two beautiful pinks, Winsor and Winona, shall close our list, a list not intended to be complete but certainly containing the cream of well tried sorts. Winona is a lovely color and a fine producer, while the flowers of Winsor are a little larger; both are grand varieties that no up-to-date carnation man will think of leaving out of his list of pinks.

Stopping Carnations.

ED. AMERICAN FLORIST:—

How many shoots would you leave on a carnation plant before finishing stopping? When is the latest you would advise stopping or topping shoots and how many leaves and joints up would you leave as last topping to shoots? I am about to plant on bench from bench inside. Should I top at once again, or wait till plants are rooted? J. B.

It is impossible to have too many shoots to a carnation plant. Go on stopping until about two months before the flowers are needed at their best. It is better not to top at the same time the roots are being disturbed and the plants should not all be stopped at the same time. G.

THE ROSE.

LITTLE and often is the way to water young stock now.

CROWDED growths and heavy syringing now means black spot on American Beauty foliage later.

MY MARYLAND, now that the plants are not being cut back for propagating, is producing splendid flowers in great quantity.

Care of the Young Stock.

If the planting has been carried out as described in our last notes the next step will be to keep the weeds in check; also to have the plants tied as soon as possible. The young stock can then be readily cultivated. The best method of tying is to construct a frame at each end of the bench or beds, of 1-inch pipe; the pipe used need not be new, as pieces with small splits or dents can be used for this. At the same time new pipe will make a much better job and will have a neater appearance. The uprights can be placed a foot in the ground opposite or on a line with the outside rows. This will set them back out of the way. Place an elbow on the ends of the uprights and connect a cross pipe to these. This cross bar should be about 30 inches from the surface of the beds and four feet six inch galvanized stakes should be used. This will give one a chance to tie and work around the plants with ease.

For the running wires, use No. 18 galvanized. Stretch them directly over the rows, giving the ends several turns around the cross pipe on the frames. Draw the wires quite tight and support them about every 50 feet with a light wooden frame constructed similar to the pipe frames and with the cross pieces, the same height. If there are any posts in the beds a cross bar lashed firmly to these will be sufficient. After stretching the wires they can be fastened to the cross pieces, using small staples. These will keep the wires the same distance apart the full length of the bed. Now we are ready to stake and tie; if there are four rows on the bench stake the two center ones first, placing the stakes about one and one-half inches to one side of the plant stem to avoid bruising the strong roots. In fastening the stakes to the running wires make two wraps of the twine around the wire, then around the stake, then one turn around the wire and tie in front of the stake. This will keep the stakes from slipping out of place and, with a little practice, the tie can be made rapidly. Now tie the two center rows and train the heaviest wood in the plant nearest the stake. Tie them so they will look to be growing naturally and not squeezed right up to the stakes.

AMERICAN BEAUTY.

In staking American Beauty a little different method should be followed. Many people prefer the single stake, owing perhaps to the extra cost of double staking the plants. But we think the extra cost of using two stakes to each plant is very much overcome by the results obtained. We all know that American Beauty is most susceptible to black spot, and in order to allow the air to circulate freely through the foliage the plants should not be tied too closely. By placing a stake on each side of the plants about three inches from the center they can be tied to a much better advantage and a 6-foot stake, supported three feet from the ground and again at the top of the stake, makes an excellent trellis for this tall growing variety.

We find when it comes to weeding that it is far better to let the first crop of weeds get about three inches high; they can then be easily pulled and, what is better, there will be very few weeds show up after this first crop, as there will be very few broken off. After weeding, cultivate around each plant where the saucer has been left for watering first, as the soil has been tramped around the plants firmly and this should be loosened up on the surface. Before putting the comparatively loose soil in and around them the whole bed should be cultivated and leveled nicely. The plants from now on will take a general watering, care being taken not to give them any more than will last them safely until the next day, as it seems to suit the young stock to be watered frequently rather than to water them so that they will go several days without water. By syringing twice a day during bright and extremely hot weather and by going over the dry spots first the plants will be kept moving properly and when they are making wood rapidly and of good color the grower may know they are getting the proper amount of water. If the foliage should become streaked or weak looking this is usually a sign of overwatering.

WATERING.

Avoid extreme dryness of the soil at any time, especially with own-root stock, as this frequently is the cause of eel worm, and once the roots are infected with this pest causing club root there is nothing that we know of that can save the plant. The plants should be syringed with considerable force at all times in order to keep red spider in check, and if there are any signs of spider on any of the old foliage the leaves should be removed. Dust a little sulphur or grape dust over the plants about once a week, as it is easier to prevent mildew than to cure it. Air slaked lime dusted around under the tables and in the walks will have a tendency to keep the air pure and sweet and will be of great assistance in warding off black spot. If one intends to carry over old stock for another season it is best to give these plants a rest. This can be best accomplished by reducing the

ROSE SILVER MOON ON PLANTS IN THEIR THIRD YEAR.

amount of water very gradually and keeping up the syringing. After the wood ripens up nicely, which should require from three to four weeks, the plants should be pruned carefully and either tied down or left standing. There is not much difference in the resulting growth, but by bending them over they naturally will have much more headroom and for this reason they are usually handled this way. Further directions for handling the old plants will follow in due season, but for a good seasonable start they should have their resting period between July 15 and August 15, earlier than this if one desires a crop of flowers for the latter part of October.

E.

Two New Climbing Roses.

Peter Henderson & Co., New York, write as follows, also sending the photographs from which the accompanying illustrations were prepared: "We have pleasure in sending you under separate cover photos of our new climbing roses, Dr. W. Van Fleet and Silver Moon. These varieties will, we believe, mark an epoch in hardy climbing roses. The first is now in its ninth year and has stood the winters at Little Silver, N. J., without injury. The second is in its fourth year and has also stood the winters there perfectly.

"Dr. W. Van Fleet (Souv. de Pres. Carnot x Rosa Wichuraiana).—The open flowers run four inches and over in diameter, center built high, petals beautifully undulated and cupped. The color is a remarkably delicate shade of flesh pink on the outer surface, deepening to rosy flesh in the center. Flowers full and double, buds pointed, stems 12 to 18 inches and fine for cutting, delicate perfume. The foliage is a peculiar shade of bronze green, large and glossy; spines a bright bronze red; a vigorous grower and immune from mildew.

"Silver Moon Rosa Wichuraiana x Rosa Sinica 'Cherokee Rose.'—This is a most interesting cross. The flowers run four and one-half inches and over in diameter, clear silvery white in color, petals of great substance and beautifully cupped. The center is filled with bright yellow stamens, a very attractive feature. It is very floriferous, the plants literally covering themselves with the great clematis-like flowers. They are borne on strong stems, 12 to 18 inches long, and are delicately fragrant. The foliage is large and abundant, a pleasing shade of bronze-green, and glossy; vigorous grower and immune from mildew.

"Both these roses were awarded a silver medal at the rose show in New York, 1908, by the Horticultural Society of New York, and were pronounced the greatest novelties in roses by all who saw them."

WILKESBARRE, PA.—Edward Salyer has leased for a term of years the Harvey greenhouses at Plains, consisting of about 10,000 square feet of glass, where he expects to conduct a general florists' business, giving special attention to chrysanthemums and violets. His business address will remain Wilkesbarre, Pa., where he has had his home the past dozen years.

CHRYSANTHEMUMS

FINISH up all planting without delay.

VIRGINIA POEHLMANN will be very largely grown this year for early work.

DO not allow the plants for growing in pots to become too hard before giving a shift.

LOOK out for the first break on the early planted stock. Pinch out the bud and upper shoot.

Hints on Culture.

Where everything has gone right, where the plants have been kept growing freely up to the time of planting and carefully set out, they will go right ahead with very little trouble. But occasionally the young stock will have been neglected, owing possibly to having been kept too long in the pots or in a poor light and these will have to be watched and treated carefully until they have obtained a good hold of the new soil. There is just this difference between good and poor stock. One of the results of ill treatment will be noted in the appearance in the points of the shoots of green or black fly, these insects always selecting sickly or unhealthy plants for their attention in preference to vigorous, healthy stock.

As long as the weather keeps bright spraying with clear cold water should keep these insects in check, but if they gain ground then spray with some preparation of nicotine used moderately strong. It is also a good plan, especially if the weather is damp or dull, to sprinkle a little good tobacco powder over the tops of the plants whether insects are present or not. It will make the foliage distasteful to them and prevent attacks, as well as killing the young ones. But see that the powder used is good.

Supporting or tying the plants in some way must be early attended to. A wire to each row close to the soil and another at about four or five feet above, according to the height of house and variety, will form a good support for strings. Before placing the strings wooden strips should be fastened every 10 feet or so across the benches. In concrete benches a staple is often cast into the upper edge to take these, while on wooden benches they are either nailed down for each crop or fastened with wires according to convenience. The upper wires are supported by suspending wires from the rafters at every 10 feet. The string should be cut the right lengths and fastened to the top wire first, then the bottom, and when a little practice has been had the work can be very rapidly done. The young plants will then be tied at the bottom with raffia, twine or wire ties, whichever are used. The soft wire ties are certainly the easiest to handle. They can be slipped on in a second with one hand and when it comes to cutting the flowers it is only necessary to draw the stem away from the string and the wire falls off.

Stirring the surface soil regularly has the double effect of keeping down weeds and assisting the growth of the plants. With a small, fine-toothed rake go over the beds every few days and in this way the weeds will never have a start, thus keeping the soil between the plants clean until the latter get tall enough to shade the soil so that weeds have no chance to grow. Watering needs considerable care, on the one hand to see that the plants have sufficient to keep going, on the other that the soil is not saturated so that root action is checked. Avoid, at any rate for a time, wetting the whole of the soil and be careful in spraying not to have a lot of water falling on the surface. The careful use of the hose is one of the first things to learn, for a man who is careless in this respect can make the greenhouse an unpleasant place to be in.

COMMERCIAL.

ROSES DR. W. VAN FLEET AND MAY QUEEN GROWING TOGETHER.

OELWEIN, MICH.—Chas. Hancock will erect a greenhouse, 30x60 feet, at his place at South Oelwein.

BOSTON, MASS.—W. W. Rawson & Co. have had an interesting display in the windows of Thos. F. Galvin, Tremont street, for some time. President Taft's home at Beverly is reproduced in miniature, the trees and shrubs of the garden as well as the house itself being faithfully imitated and it should prove a valuable advertisement for this well-known firm.

The Modern Sweet Pea.—IV.

The sweet pea flowering season is upon us here in California. On May 17 I started for the Morse ranches at Gilroy, once more to revel in the extensive trials and the sweet pea "workshop" where the new crossings are made and planted almost ad libitum. The trial grounds are at the Ray ranch just beyond Gilroy, and the "workshop" is at the Martin ranch just this side of Gilroy. I spent three days on that visit and took notes on 400 trial rows, leaving another 100, of later importation, till my visit in June. At the Martin ranch the new seedlings from crossings made there cover 12 to 15 acres. And here is where the professional sweet pea man feasts his eye till he can stand it no longer. I wish that a thousand papers that reach the American public might copy what I want to say about this visit and I wish the editor would drop his blue pencil in the wastebasket and forget where it is when he receives this article. I do not see how any other flower in all the world can make such a showing as the new sweet pea now does at Gilroy.

The art of crossing is now so thoroughly mastered there, and the opportunity so unlimited that this is now the place to go and see the most advanced work on this flower. No amount of space is begrudged for planting all the stock that has any new crossed blood in it. And the expense of doing this work is almost a free gift, for in the close ruling of market prices for seed no allowance is made for this special work. A sweet pea expert has been doing this work for 15 years, until now that the Spencer type is coming in his "workshop" is literally a paradisal profusion of seedling stock and a quality and variety of color representing the very top notch of advance in this flower.

ENGLISH VARIETIES.

The first point of interest is the novelties recently imported from England. These consist of the Unwin class and the Spencer, that have been named in England, with a few that I call large Grandifloras. The Unwin type is free from the hood and approximates to the Spencer form. I noted A. J. Cook in this class, a pale lavender; also Nora Unwin, white; Gladys Unwin, like Prima Donna in color; Pink, Pearl, a little deeper rose pink; Phyllis Unwin, medium bright rose; Lorna Doone, a pale Countess of Spencer Unwin; Millie Maslin, rose scarlet; Prince of Asturias, dark maroon, a little reddish; Chrissie Unwin, a remarkably bright cerise, and Mrs. Alfred Watkins, pale.

Of the Spencers I counted, in both the trial grounds and the "workshop," 57. There are very few duplicates among them. Florence Morse Spencer is the English Mrs. Hardcastle Sykes. And Paradise and Enchantress are so nearly like Countess Spencer as to be hardly distinguishable. Countess Spencer and Mrs. Routzahn each head a separate class of Spencers, that, in their picotee edge and border, shade more or less deeply. The Countess Spencer class have a white ground or throat, while the Routzahn class have a primrose, straw or cream ground or throat. I listed 10 or more of these that run from a soft edge or border to a deeper and brighter edge or border. Taking the white grounds they run from the broader border of Countess

Rose Silver Moon.
Rather More Than One-Third Natural Size.

Spencer to the delicate edge of Princess Victoria, which the Princess herself requested might be named for her. But some of the newest ones run much deeper in color than the original Countess Spencer. And Audrey Crier has a softer picotee edge than Princess Victoria.

SPENCER SELFS.

Leaving these I ought to note the Spencer selfs. Almost everything bright and beautiful now come in Spencer form, like Queen Alexandra and King Edward the VII, which were Eckford's supposed scarlets. Coccinea is one and there is another lighter shade of cerise also. Of the orange Spencers, Helen Lewis has been recovered and Henry Eckford also has come beautifully to this form. Two lighter shades of Henry Eckford have come in, one of which has both wings and standard of bright orange cream. Of the very dark varieties Othello takes immense Spencer form, and Black Knight also comes a Spencer. Another immense dark one is Blackbird, a giant Grandiflora. And Midnight is a black maroon that outclasses all in darkness, but is not a Spencer. Senator takes large Spencer form. Of pink Spencers there is a soft salmon pink, a very light buff pink, a soft rose pink, a soft rose salmon pink, and a royal rose shade showing salmon and primrose. Of lavender Spencers there is a Balfour Spencer, a Dorothy Tennant Spencer, a Fascination Spencer and an Emily Eckford Spencer. Of primrose and cream the former has come into fine Spencer form and Queen Victoria cream and Lottie Hutchins, cream and soft rose flaked, both have come into Spencer form.

Rose Dr. W. Van Fleet.
Rather More Than One-Third Natural Size.

Both black and white seeded whites have taken the Spencer form. And of the striped sorts, Aurora is a giant Spencer, Ramona also, and America has come to it, and the rose stripes such as Gaiety are now Spencers. Two very interesting developments are a godetia sweet pea, a polypetaled form almost like a rose, and another new seedling that is a great advance towards scarlet, more scarlet than Scarlet Gem. By working in orange and cerise on the old brightest reds a splendid brilliancy of color is showing up. Let me call attention to a few sorts that I specially noticed. Mrs. Geo. Lewis is a good white with lots of substance and about the size of Blanche Burpee. Mrs. Collier is a fine grandiflora primrose cream. Agnes Eckford is a soft pink corresponding to Dorothy Eckford in size. Bolton's Pink is a bold light salmon pink and does not hood. Jessie Cuthbertson is a striking rose stripe. Helen Pierce is to anyone not familiar with it very interesting in marbled blue on white. Lord Nelson is a beautiful dark blue. Mrs. C. W. Breadmore and Evelyn Hemus are grand picotee edge sorts.

W. T. HUTCHINS.

The Lath House.

Surely plant growers as a rule do not comprehend the value, one might almost say the absolute necessity, of a lath house. Where there is plenty of ground it should be made as large as possible for from all points it is one of the most useful structures on any place. In spring plants that are not sufficiently hardy to stand frost may be placed in it to harden off before being planted out. In winter even bulb flats may be placed in it and covered for a few days before going under glass. But it is during the heat of summer when the sun outside is too much for the ordinary plant that the lath house is so useful. A batch of araucarias purchased early in the season and placed in such a structure will grow into money during the summer and make splendid stock for Christmas sales. Japanese maples, conifers and similar semi-hardy stock can be kept there practically all the year round and

there is really no single month in the whole year when the plant grower cannot use the lath house for some purpose or another. Not much money need be spent upon it. Make it just high enough to walk in without stooping and have doors at every 10 feet or so throughout. Make it as big as the pocket book will stand, for it will be all useful. COMMERCIAL.

Lawn Decoration.

A paper read by Edwin Lonsdale before the Florists' Club of Philadelphia, July 6.

When your committee invited your humble servant by letter to write something about the latest in outdoor flower bedding, I hesitated so long before replying that the chairman of the committee, Robert Kift, paid a personal visit, and his pleading was so effective and irresistible that all I can now say is "Here I am."

A WIDE FIELD.

Lawn adornment opens up a very wide field, altogether too wide to be considered at all satisfactorily in the brief space that may be allotted to its consideration this evening so that the best that can be done with so important a subject under existing conditions is to give same a "touch and go" treatment.

The first thing that naturally suggests itself when considering the embellishments to a lawn is to produce an inviting and restful effect, and the very best material to make use of is shrubbery and shade trees judiciously planted. Of equal importance is a seat here and there. Let these be as informal or as rustic, yet as comfortable for the purpose intended as it is possible to have them. Let shrubs, both the deciduous flowering and the ornamental evergreens, be disposed as nearly with natural effects as it is possible to do. Many of the strong growing grasses add a grace to any plantation that nothing else can give.

REGULAR DOTS NOT WANTED.

Do not dot plants on a lawn unless same is made to appear to have naturally escaped from a nearby group. I once saw a lawn planted with such regularity that in the distance the bushes had the appearance of cocks of hay. Let the shrubs occupy spaces on the extreme outsides of the lawn, avoiding straight lines in the planting in all cases, allowing sufficient space between each plant for the future development, and, for the first few years after planting, what may seem too much room may be occupied with such flowering annuals as may suggest themselves to those who have the work in charge, and the more lasting hardy perennials could be interspersed between to advantage. But great care must be exercised in the association of the vari-colored annuals and the perennial flowering plants to avoid clashes in coloring.

CONTRASTS OF COLOR.

It is far easier to avoid color clashes in the tender bedding plant combinations than it is with the hardy outdoor flowering plants, although too often we do see the scarlet zonal pelargoniums and the majenta-pink colored varieties of the same, in too close proximity to be harmonious. Vases judiciously placed, which means never in the center of a plot or lawn, and where water is of easy access so as to give in abundance when requisite, which is generally once a day and frequently twice, are oftentimes very effective, especially in this case on the edge of a pond or lake, but by all means refrain from planting purple petunias in the same vase with scarlet geraniums or any other colors with which they may produce discord.

Many of my hearers will remember that strong paper read at a convention in the early history of the Society of American Florists, held in Buffalo, N. Y., in which the essayist advocated the omission of all flowering plants from lawns and pleasure grounds, to have nothing but grass, trees and shrubbery, and you will also remember what an uproar went up all over the country in vigorous protest. And only last summer a lady visitor at Girard College, on entering the lodge gate, stood, and in no unmistakable terms declared, "What a pity to cut up the lawn and plant thereon those horrid geraniums," and so it goes. It is impossible to please everyone. The cactus bed which we have in Girard College grounds attracts more attention than all the croton, geranium or miscellaneous beds combined.

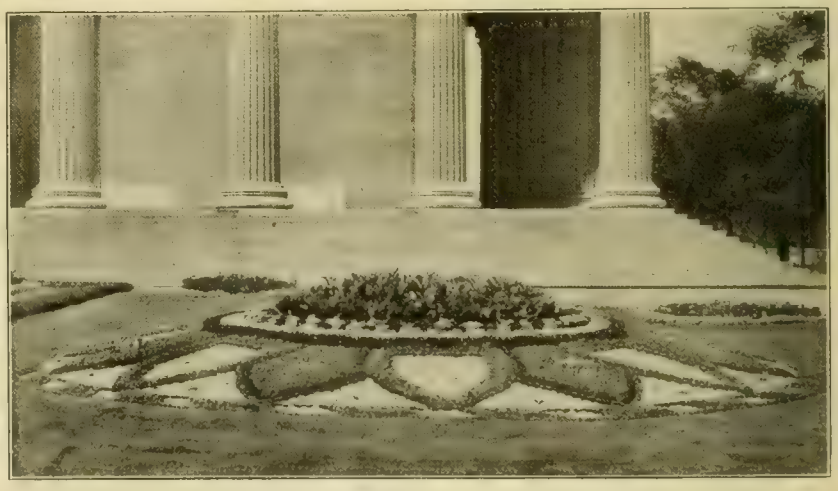
The president of Girard College only a short time ago said with much apparent gratification that the "front" never looked better. While the too plentiful use of the scarlet geranium (zonal pelargonium) may not be considered in the very best of taste, as we have it this year, I believe its very brilliancy in coloring in the past has attracted many persons' attention to gardening, and when once a person's interest has become aroused in gardening, the rest is easy. The end has justified the means. It has acted as a means to an end, and has acted as a primer, as it were, or rather the kinder-garten to aid floriculture. In a public, as well as any other garden, the geranium appeals to the popular fancy, and for that purpose I believe it will hold its own for a very long time to come.

Personally, I have no use for the pink varieties, for the most part, because they do not harmonize with the brighter reds or scarlets. At one time I did not like the salmon tinted varieties of geranium, but now I welcome them, because they harmonize with the brighter reds and scarlets. There is no color clash with these brighter colors, provided the blue combination is kept in due subjection.

PIN OAKS ON THE LAWN.

It should be understood in this connection that the landscape gardener has completed his work, though one suggestion I will venture to propose, and that is, when space admits, I would advise that a triangular tree plantation be made not too far away from the residence, and that these trees be the pin oak (Quercus palustris) where said trees render a good account of themselves or, when some better tree for a given locality suggests itself, let the same be planted at least 16 feet apart, in triangular form. Those of my hearers who contemplate such a planting will be surprised how amenable they will be to the proscribed landscape effects, and what is of equal importance, after they have had a few years' growth they may be brought into requisition as hammock supports. Three trees properly disposed will support, or rather furnish supports for three hammocks, which will undoubtedly furnish another point in the restful effect so much desired in all lawn adornments.

The planting of flower and foliage beds in lawn adornment is considered to be worthy of our best thoughts; especially does this apply in public and semi-public gardens connected with our popular institutions. In the Girard College grounds, with which yours truly is connected, the idea is to make as much display with the plants we have on hand as is possible and we proceed as follows: In the spring time we plant pansies, forgetmenots, Alyssum saxatile and Arabis alpina between and associated with tulips, hyacinths, etc., which had been planted during the late October and early in the November previous. This combination, for spring flowering, is very effective. Wallflowers are also found to make good for spring bedding when planted as above indicated between bulbs of last fall's planting, or for in-



CARPET BEDDING AT GIRARD COLLEGE, PHILADELPHIA.

dependent planting in spaces unoccupied. Wallflowers sown late in June or early in July, if taken care of as to transplanting once or twice, will make effective planting for spring work.

For summer blooming there is nothing superior to geraniums, and when we desire foliage plants nothing is comparable to crotons. The surprise

SUBTROPICAL BED AT LINCOLN PARK, CHICAGO.

is, judging from how well these showy leaved plants cover themselves with glory in and around Philadelphia, that more of them are not used elsewhere. The canna, as a large flowering plant for distant effect, is most satisfactory, and as edging plants nothing is superior to Abutilon Savitzi, which gives a white line more effectively than any other plant that I know. Echeveria and alternanthera are much used where formal designs are desired, but these are being used less and less as truly artistic instincts are developed, and the time is not far distant when the formal flower bed will be a thing of the past.

National Sweet Pea Society of America.

At the opening meeting held on the afternoon of July 7, in addition to the election of officers noted in issue of last week, a committee was appointed to prepare rules. It was composed as follows: Prof. John Craig, Cornell University; Frank Traendly, New York; Wm. Duckham, Madison, N. J.; Harry Turner, Port Washington, N. Y., and Harry Bunyard, New York. An executive committee was also appointed, as follows: Wm. Sim, Cliftondale, Mass., for one year; A. C. Zvolanek, Bound Brook, N. J., two years; W. Atlee Burpee, Philadelphia, three years. Prof. Craig read his paper on the "Purposes of Trial Grounds," which was well received.

In the evening there was a very enjoyable banquet at Kennelly's, Columbus avenue and Eighty-third street. After the wants of the inner man were well satisfied President Turner rapped for order and Prof. Craig was installed as toastmaster. Brief remarks were made by a number present and there was general enthusiasm over the successful inauguration of the sweet pea society, in which Harry Bunyard came in for a poetic tribute for his good work in this connection.

Among the speakers were G. W. Kerr, representing the Burpee farms; Wm. Sim, A. T. Boddington, Maurice Fuld, representing W. W. Rawson & Co.; Chas. Hewson, Buffalo, N. Y.; A. C. Zvolanek, Harry Bunyard and others. Wm. Duckham and Chas. H. Totty, to the regret of all present, were compelled to leave before the oratory began to flow, in order to catch a train for their homes in Madison, N. J.

The meeting on the evening of July 8 was not well attended on account of most of the out-of-town delegates having departed for their homes. Papers by Rev. W. T. Hutchins and A. C. Zvolanek were filed and made part of the record. Resolutions of thanks to the directors and managers of the American Museum of Natural History for the courtesies extended were adopted. Before the final adjournment there were many words of appreciation for Secretary Bunyard's good work.

The exhibit from Fordhook Farm (W. Atlee Burpee) was a very fine one, but it was not entered for competition. We understand that Judges Sim and Zvolanek recommended it for a special award. The following exhibits received special mention:

Joseph A. Manda, West Orange, N. J., orchids.

Julius Roehrs Co., Rutherford, N. J., orchids and collection of foliage plants.

John Lewis Childs, Floral Park, N. Y., callas, Mrs. Roosevelt and Elliottiana and iris.

The Rosary Flower Co., New York, dinner table decoration.

Howard Gould, Port Washington, N. Y. (Harry Turner, gardener) flowering plant of Acalypha Sanderiana.

Honorable Mentions.

Lager & Hurrell, Summit, N. J., orchids.

Peter Henderson Co., New York, collection of sweet peas, over 100 varieties.

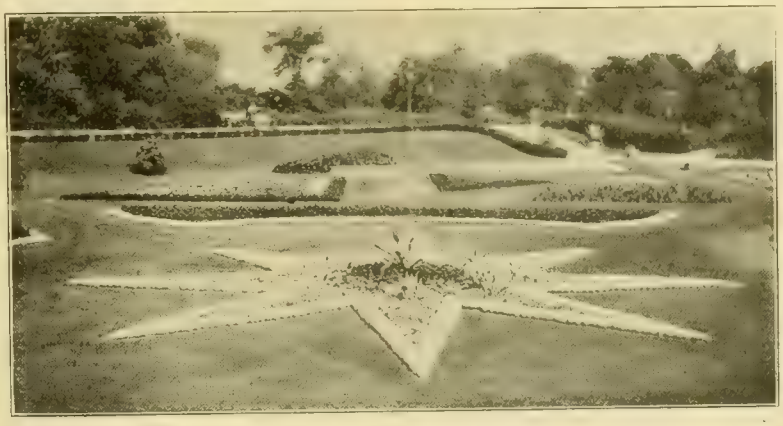
In addition to awards noted last week special mention was given to Chas. R. Hedden, Madison, N. J. (Alex. Michael, gardener).; also to Wm. Duckham, and a certificate of merit to W. W. Rawson & Co.

Chinese Primulas.

Of the many plants grown for decorative purposes during the winter, few, if any, are more valuable than Chinese primulas, which, although not difficult to manage if a certain course of treatment is pursued, are rarely seen in first class condition. This arises, says the Journal of Horticulture, in a great measure from growing them in unsuitable soil and in houses or pits where they are at times subjected to too much shade by having thick mats or similar material thrown over them, or get exposed to strong blinks of sunshine, which sudden transition, acting on their nimsy foliage, has a most injurious effect on their health.

Although they will not endure the full solar rays without prejudice, they require plenty of light to keep their leaf-stalks short and stout and the plants wholly sturdy and strong, and in no way can this better be effected than by affording them a frame or low pit to themselves, stood, or in such position as to be readily shaded from hot sun by means of tiffany or other light screening material drawn over the lights as occasions require. The shade of a tree or wall is not advisable, as the screening by these means is too dense and continuous, yet liable to fluctuations both as regards dryness and moisture. Not only is it highly important that they be favored in the above manner, but it is equally so that a regular supply of atmospheric and root moisture should be afforded them, and above all an essential point is that of a cool bottom to stand on, together with its imperviousness to slugs and worms, which otherwise find their way in and do irreparable damage.

The first thing to set about, therefore, is to scatter some rough ashes where the frame is to stand, or, as a better conductor of moisture, refuse lime left from sifting may be used, treading down to an even surface, and in the rough bottom thus formed place in three inches depth of coal ashes, making the surface even by rolling or beating with the back of the spade. In the case of a cold pit ashes should be used in a similar way, and so as to leave space of 15 to 18 inches from the surface of the coal ashes to the glass. So made it will be secure against intrusion from below, and by the drainage from the pots, together with the bedewing overhead or sprinkling between the pots in dry, hot weather, the floor will become so saturated as to be always cool and moist, and an atmosphere generated conducive to a clean growth. Thus the conditions for growth are more congenial than in a house or other situation where the air is arid and in which the plants are stunted and as-



MIXED BEDDING AT WASHINGTON PARK, CHICAGO.

sailed by red spider, whereas these pests cannot thrive or exist under circumstances favorable to and necessary for the welfare of the plants.

Not one of our greenhouse plants has received more attention in the matter of improvements than the Chinese primula. As originally received in this country from China in 1820 the flower was insignificant and the color poor. Now we have single and double flowers of many superb colors, and the individual blooms of several varieties are imposing in size. The foliage also has been developed into ornamental forms, so that the plants are admirable decorative subjects before a flower is visible. There are several strains, and to obtain the most satisfactory results it is necessary to obtain the most up-to-date varieties. For general purposes the Superb Fringed Red and Superb Fringed White meet all requirements. The plants are of strong growth, bearing flowers well above the foliage. The flowers are large, finely formed, of good substance, elegantly fringed, and (in the case of the first named) of a rich purplish red color, with a small yellow eye, having the advantage of standing the sun without changing color better than any other primula. The other is the perfection of white primulas for general cultivation.

What more does anybody want? Variety! In this respect there is the greatest scope for indulgence. Crimson King, deep crimson flowers, and small yellow eye encircled by a nearly black band. Snowflake, with fern-like foliage, fringed snow-white flowers with a well defined small yellow eye. Favorite, delicate pink, each petal edged with bright carmine rose. Blue, large flowers of a rich blue color and elegant form. Crimson, velvety violet-crimson, fine form, great substance and exquisitely fringed. Rose, flowers of a charming bright rose-pink shade. Salmon, a most beautiful and distinct salmon color. Scarlet, brilliant and intense rich scarlet-crimson flowers of medium size, fine form, and elegantly fringed. Brilliant King, finely fringed dark velvet crimson, blooms of fine form and great substance. His Majesty, robust in plant, with dark red stems and gigantic art-shade crimson blooms of massive substance, lovely velvety surface and beautifully fringed. The Duchess, pure white flowers and clear yellow eye, surrounded by a band of deep rosy carmine. Orange King, medium sized flowers of a bright orange color, bright rose when fully developed, overlaid with a deeper shade and edged with orange salmon. Then there are the giants, vigorous in growth of plant, with fringed foliage:—Gigantic Red, rich purplish red; Gigantic Rose, carmine-rose, with a well defined eye, very effective; Gigantic Scarlet, strong growing, enormous trusses of extra large flowers, intensely rich, deep scarlet-crimson, gorgeous and effective; Gigantic White, fern-leaved, of strong growth and enormous size of flowers; the Queen, and hybrids, flowers of enormous size, massive substance and elegant form of flowers, which are white, tinted rose.

Double primulas come last, not least, for in a cut state they last longer than the singles, as well as on the plant, though, of course, they are only semi-double when raised from seed, and to which our present remarks apply. They are procurable as seed in Double Red, Double Rose, Double Salmon, Double Scarlet and Double White. Mention of cut bloom reminds one of the varieties of Primula stellata, albeit a form of P. Sinensis, yet a very distinct and valuable variety for growing in pots for the greenhouse or table decoration, as well as for use in winter for cut bloom. The pretty and attractive dark red foliage makes an effective contrast to the very graceful pyramids, of long duration, and do not drop so quickly as in most other varieties. It requires the same treatment as the ordinary Primula Sinensis, but is a taller plant, and the stronger whorls require staking, the plants sometimes attaining to a height of two feet. There are a number of varieties, chiefly distinguished by their color, of which the Blue is the most rare. Crimson, Red and Rose, Salmon Pink, White and Giant White are the other colors. Stellata Double Crimson, is a very attractive variety, with rich crimson, well formed flowers and elegantly cut foliage, and most useful for table decoration.

Chicago Florists' Club's Annual Picnic.

SEE OUR PASTIMES PAGE 1286.

Ed. Enders, Chairman.

T. E. Waters.

We present herewith portraits of the men who are in active charge of the Chicago Florists' Club's annual picnic to be given in Riverview park grove July 22.

Ed. Enders is the present capable head of the Good of the Club committee and as such was appointed by President Geo. Asmus to the chairmanship of the picnic arrangements committee.

Allie Zech, who is chairman of the sports and pastimes committee, was asked with his committee to work in conjunction with the Good of the Club committee in planning the outing. Allie is the boy who is organizing a championship bowling team going to the Cincinnati convention.

T. E. Waters is a hard man to lose when it comes to planning a florists' picnic, and this affair wouldn't be what it ought without him.

Frank Pasternik is buyer for the Ernst Wienhoeber Floral Co., and can bowl a few himself. He is going to the S. A. F. convention next month, possibly as a member of the bowling team, sixth man at any rate.

John Kruchten is also a member of the picnic committee. We were unfortunate in being unable to secure his photograph in time for this issue.

Allie Zech.

Frank Pasternik.

Irrigation on Old Eastern Farms.

Portion of a paper read by Burnet Landreth at the annual meeting of the American Seed Trade Association, Niagara Falls, N. Y., June 23.

Every reader of leading western agricultural papers, and still more so every traveler journeying west of the Rocky Mountains, sometimes east of the mountains, is more or less familiar with the interesting processes and magical advantages of irrigation on what formerly were dry plains, once districts abandoned to sage brush, cactus, horned toads and rattlesnakes.

The national government has expended $14,000,000 in the three states of Arizona, California and Nevada, $6,000,000 being for the construction of dams, in addition to which the Salt River dam now building will cost $3,500,000 when completed.

Under the terms of the congressional appropriation known as the reclamation fund and of the Carey act, the Department of the Interior of the national government has in seven years expended $45,000,000 in the reclamation service, that is the storage, diversion and development of water in addition to giving to the arid states 1,000,000 acres each of government lands provisionally upon state irrigation. No broad-minded man objects to these most practical, though most enormous, aids to agricultural development. But what has the national government done to promote irrigation processes on the farms of the old eastern states? Just nothing! The men with a mission are not interested in promoting the improvement of lands already occupied—no money in it for them. I do not profess to be an expert in western irrigation processes, only knowing the immensity of profit therefrom, not only to the agriculturist, but to the merchants supplying their domestic wants, to the transportation companies carrying their products, all this increasing industrial and commercial and railroad undertakings. But I do know very much of the losses incurred by eastern farmers who annually see their crops of corn, vegetables, melons, strawberries, tobacco, cotton and small fruits, dry up before their eyes from the effects of midsummer droughts, while past these very same farms immense volumes of water sweep in the sunken or depressed channels of the rivers draining eastward along the Atlantic slope or westward towards the Mississippi.

In the east every farmer, as a general rule, must get his water from his own river front, if he has one, or from wells dug on his own land, for the reason that adjoining farmers will not consent to their lands being bisected by irrigating canals for the benefit of others; nor will farmers lower down a stream consent that their water supplies from natural streams shall be diverted by farmers higher up the stream. Consequently in the east an intending irrigator must get his water from his own river front or from wells on his own property, the water from which must be pumped into surface reservoirs located on elevated points of his property.

But the farmer of the east, to irrigate either from reservoirs filled from wells or supplied from river fronts, must engage in experimental work and an outlay of considerable time and money, very much of which time and money could be saved to 100,000 farmers if the Department of Agriculture could be authorized by congress to erect an irrigating station on the Potomac above or below Washington, where the water could be raised from the river, there considerably below

the surface of the farms, carried back by reservoirs to the higher parts of the land, and from them distributed, finally finding its way to the river.

An irrigation farm managed by the government would pay for itself, not only as a kindergarten, but as an experimental farm where many agricultural tests could be concentrated and conducted to great advantage. The pumping machinery, water-gates, sluice-ways, which could be exhibited in operation at such an irrigation station, would no doubt be loaned by the many manufacturers all over the country who, anticipating sales, would only be too glad to have their manufactures shown under such good auspices; and the public would be surprised to see the powerful and very varied apparatus made for irrigating purposes.

The farmers of the country, from Maine to Florida, along the Atlantic slope, and that larger number resident in the Mississippi valley, from the headwaters to the gulf, could themselves or by their delegates visit the station, familiarizing themselves with the processes, and ultimately establish 100,000 private irrigated farms, resulting in an addition to the nations' wealth of ten thousand times the volume of the outlay.

To sum up, I propose that the secretary of the Department of Agriculture incorporate in his draft of suggested appropriations, to be presented to the next congress, February, 1910, the sum of $50,000 for the purchase of land for an irrigated station. Such a governmental station would be unique and would at once be recognized as so eminently practical that, without doubt, many states would in time establish similar stations, and a new era of agricultural progress be inaugurated in the older states, which would bear results greater in value than the total value of all the work done by the Department of Agriculture since its inception, for the area of farm lands on the river banks from Maine to Florida and from the Atlantic to the Mississippi in over 50,000,000 acres under the plow, the crops on which every year are grown under more or less jeopardy consequent upon the re-occurring droughts of midsummer, while an immensity of water rushes past the thirsty and languishing if not, as too often, the dying crops.

Destroying Grasshoppers.

ED. AMERICAN FLORIST:—

Is there any way of destroying grasshoppers? For the last three years I had such trouble with them in my dahlia fields that they destroyed all my flowers so I had scarcely any to cut. I notice my fields are full of young ones now. H. W. K.

Wisconsin.

The most practical methods of which we have any knowledge for the destruction of grasshoppers is by the use of poisoned baits. Very large level areas can be gone over with the hopperdozer, a pan of sheet iron with water in it and oil floated on top, but this is only suitable for these level areas. What has come to be known as the Criddle mixture is giving most satisfactory results on the ranches of both the United States and Canada. The mixture is composed of half a barrel of fresh horse droppings in which is mixed one pound each of salt and Paris green. If the horse droppings are not fresh the salt is dissolved in water and mixed with the manure and poison. When this mixture is scattered freely about where the grasshoppers are abundant they seem to be attracted to it, for they devour it readily and are poisoned thereby. Dr. James Fletcher, entomologist for the Dominion of Canada, cites an instance where this mixture had been scattered freely around the edges of a field and states that this particular field stood out as a green patch in a brown plain, as it was situated in the midst of fields where nothing had been done to destroy the grasshoppers. This Criddle mixture now seems preferable to the poisoned-bran remedy that has given and still continues to give beneficial results, for it is less expensive than the latter and less likely to poison other animal life.

F. W. W.

Twenty Years Ago.

JULY, 1889.

About 90 varieties of roses were included in the collection at the Arnold Arboretum.

A pot-washing machine was one of the novelties made by a Philadelphia firm.

Mme. Cusin was one of the most popular roses.

The lily ponds in Lincoln park, Chicago, were constructed and Victoria Regia planted.

W. Atlee Burpee was among the visitors to the Paris exhibition, returning July 3.

Florists were getting their troubles with the express companies in the matter of rates on plants.

A Delaware ship owner had his daughter christen a new vessel with a bunch of roses instead of a bottle of champagne, so this is not as new a custom as some people think.

Uncle John Thorpe was distributing ladybirds to chrysanthemum growers to rid their plants of aphides.

To Be Done Now.

IN THE GREENHOUSES.

Shade the house where Adiantum Farleyense is grown and run it fairly cool. A night temperature of 65° is ample and, with plenty of air, will produce good hard fronds.

Keep the young poinsettias in a good light and allow plenty of air to prevent drawing.

Plenty of heat and light with ample atmospheric and root moisture are needed to bring out the color in coleuses.

Plant a bench of Asparagus Sprengeri if there is one to spare.

When the rose houses can be got down to 60° at night, fire up and apply sulphur to the pipes should any mildew be present.

Finish the planting of chrysanthemums without delay.

Water calanthes freely now that the roots have taken a good hold of the compost and give weak applications of manure water.

Avoid wetting the walks unduly in the rose houses as it makes them bad to walk on and the moisture at night may do mischief.

Reserve a few rose plants to fill blanks later when throwing out the benches that are not needed.

After flowering place Cattleya Mossiæ in a good position to make the new growth.

Reserve at least half of one day a week for disbudding, picking over and cleaning up generally.

Another sowing of pansies for flowering in fall should be made. Keep the seedlings cool.

OUTDOORS.

Finish the pruning of spireas weigelas and other flowering shrubs.

Where late peas are wanted sow Prizetaker, Autocrat or some of the dwarf early kinds. They must have the best of attention right along or they will be useless.

Any greenhouse plants stood outside for the summer must be freely sprayed several times daily.

Keep the flowers pinched off the geranuiums and other bedding plants that were set out for stock.

Put a stout cord or run a lath around beds of sunflower, cosmos or flowers of similar habit to prevent their being blown or falling over.

Any watering that is done should be done thoroughly. Daily sprinklings bring the roots to the surface where the hot sun burns them and wilts the plants.

Go over the mixed shrubbery and see that the strong growing kinds are not overrunning the weaker though choicer species.

After rains break up any clods left from late plowing and get the land in condition for fall crops.

Sow the Batavian endive in a cool spot and plant out as soon as ready.

Clear off early flowering annuals before they became untidy.

Feed dahlias when they begin to grow freely and stake or otherwise support the growths.

OBITUARY.

Herbert Heller.

Herbert Heller, New Castle, Ind., died on the evening of July 9 at his home on South Main street. Mr. Heller had been sick for several months following an operation in January, which it was hoped would have relieved him but cancer intervening he has laid for some time with no hope of recovery. Mr. Heller was one of the foremost growers of American Beauty roses in New Castle and, although a young man, his firm had been very successful both in the commercial end of rose growing and as an exhibitor of choice stock at all the principal shows all over the country.

Mr. Heller was a native of Knightstown, the son of Moses Heller and was born in 1871. In 1904 he was married to Mary Smith who, with an infant son, survives him. Mr. Heller's mother, brother and sister also survive him. He was universally liked and respected both by his associates in business and those who knew him as friends. He had given up his entire time for several years to his successful business. Always genial and smiling, he will be sadly missed by his family and his employes. His brother, Myer Heller, has been connected with the business with him and this will be continued as heretofore.

Mrs. Godfrey Aschmann.

It was with extreme regret that we heard of the death of Mrs. Aschmann, wife of Godfrey Aschmann, the well-known plant grower of Philadelphia. Mrs. Aschmann's death took place early in the morning of July 10, she having been stricken on the Saturday morning previous, just one week before her death. The stricken lady never recovered consciousness. Our deepest sympathy is with Mr. Aschmann and his six children in their sad bereavement. They are left to mourn the loss of a devoted wife and mother who was loved and respected by all who knew her.

Philip Hagenburger.

Philip Hagenburger, aged 64 years, for 35 years florist for the Lake Shore railroad, having charge of all the depot floral decorations between Buffalo and Toledo, passed away suddenly July 4 at his home in Mentor, O., from an attack of neuralgia of the heart. Mr. Hagenburger complained of feeling ill early in the morning and death followed soon after. He is survived by a wife and four children.

THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

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THE alarming drought in the New England and eastern states generally, chronicled in the newspapers and of which a few instances are given in our columns, lend an added interest to Burnet Landreth's paper on irrigation, excerpts from which we publish on page 1266.

THE AMERICAN FLORIST desires the names of members who have been very regular in attendance at the recent annual conventions. It desires to compile a list of those who have attended the most meetings, and will be glad to receive records from its subscribers who have been constant in their attendance at the S. A. F. conventions.

As the bedding plants come into line take notes of any good combinations or beds to be repeated or changed next year.

DENVER, not to be outdone by Pueblo and Colorado Springs, had a hailstorm of its own on July 5; nearly everybody hit was insured.

MOST of the glass factories have shut down for the summer, and, as the demand has been very active, prices have advanced about 10 per cent, discounts now being quoted at 90 and 30 off for single strength and 90 and 35 for double.

THE Illinois Outdoor Improvement Association, an organization that originated at a state conference at Urbana, March 31, 1909, under the auspices of the University of Illinois, is out with an appeal to all interested in beautifying the state. The committee on organization met in Chicago, April 30, and formed a constitution to be submitted at a coming meeting this fall. All interested can obtain particulars and copies of the announcement by applying to the secretary, A. P. Wyman, 17 E. Van Buren street, Chicago.

Personal.

Sir Joseph Hooker, the veteran British botanist, has just passed his ninety-second birthday and was present at the recent Darwin celebration in Cambridge, England. The actual date of his birth was June 30, 1817.

George E. Baldwin of Carillo & Baldwin, Secaucus, N. J., has gone to Europe on a combined pleasure and business trip.

Society of American Florists.

WHAT IS THE MATTER WITH CINCINNATI?

The writer has just returned from a visit to Cincinnati in regard to convention matters, and after a thorough canvass of the situation is prepared to most emphatically state that both Cincinnati and the Cincinnati florists are "all right."

The latter seem to have anticipated every difficulty and every discomfort which might arise to their visitors and have taken effective steps to avoid them. They say unanimously that Cincinnati is not so hot a place as people think, but as they have learned that the impression has gone out that exceptionally hot weather is likely to be experienced at the convention time, they are taking steps to avoid that discomfort all along the line. They have decided not to decorate the hall, which would cost $150 or $200, but instead to put all of that money into extra ventilating fans so that there will be a good breeze stirring in every part of the hall and visitors will be perfectly comfortable at all times. At the Gibson house, which will be headquarters, they have arranged that a fan will be furnished in every room, without charge, for all those who engage rooms in advance.

The president's reception will not be held in a stuffy hotel ball-room, but will take place outdoors in a park up on a hill where the cool breezes play and where the absence of a vest or even a coat will not cause comment. After the reception there are great doings in store, but the writer is sworn to secrecy regarding them for the present.

The arrangements for bowling are admirable. The alleys are ideal and it is stated that no one can get hot there unless from the violence of his own physical exertions or from mental anguish caused by failing to make as many strikes as he would like.

Friday will be devoted to an excursion by boat up the river to a large island maintained as an amusement park. Here also much secrecy was maintained and many knowing looks were exchanged among the local men regarding the stunts which were to be pulled off. I did hear accidentally, however, something about a barbecue—an ox and two or three sheep to be roasted whole, and it was stated that the ball game would be held at this place in the afternoon. Take it all in all, the prospects for a comfortable time and a most enjoyable one could not be better.

Superintendent Murphy is the busiest man ever these days. He has already sold over 10,000 feet of exhibition space and says that the way the inquiries and applications are coming in there is no doubt but what all available space will be taken, even though the full space is three or four time as great as that at Niagara Falls. Address William L. Murphy, 311 Main street, Cincinnati. All those who have not already arranged for exhibition space should take heed that they make application at once or it may be too late.

W. N. RUDD Sec'y.

July 9, 1909.

Florists' Hail Association.

The following is one of the many letters of commendation the Florists' Hail Association is receiving:

"Your letter of June 23 received; also check from the Florists' Hail Association to the amount of $107.66 less reinsurance, 92c, to cover loss by hail on May 29, 1909. We wish to thank the association for the prompt attention they gave to our loss and satisfactory settlement in every way, shape and form.—Nussbaumer Floral Co., San Angelo, Tex."

JOHN G. ESLER, Sec'y.

A "Grafter."

ED. AMERICAN FLORIST:—

An "agent" has been calling on peoule here and collecting money to make roses and clematis vines everblooming. For instance, he says the "red rambler must have a white rambler as a companion plant and then the red rambler will bloom continuously all summer instead of just a short time." He says he can do this by grafting and is taking in money all right. What is the truth?

STREATOR.

There is nothing remarkable about grafting (budding) a white rose upon a red one, whether rambler or otherwise, but this would not have the effect of making either a constant bloomer. It would not, in fact, alter the habits of either. The two varieties would simply grow together unless one was of a stronger habit and ultimately overcame the other. As to the clematis "Streator" does not say how this plant wizard is to make it everblooming and this part of his business is probably pure fake. Have nothing to do with him and warn other people against him is our advice.

Important Foreign Exhibitions.

July 23.—National sweet pea show, National Sweet Pea Society, R. H. S. Hall, Vincent square, Westminster, Eng. C. H. Curtis, secretary, 2 Adelaide road, Brentford, London, W., Eng.

September 8-9.—Royal Caledonian Horticultural Society, Centenary show, Waverly Market, Edinburgh, Scot. John McKenzie, secretary, 23 Rutland square, Edinburgh, Scotland.

Meetings Next Week.

Boston, Mass., July 20.—Gardeners' and Florists' Club of Boston, Horticultural Hall.

Detroit, Mich., July 19, 8 p. m.—Detroit Florists' Club, Cowie building.

Grand Rapids, Mich., July 19.—Grand Rapids Gardeners' and Florists' Club, Board of Trade rooms, Pearl street.

Hartford, Conn., July 23, 8 p. m.—The Connecticut Horticultural Society, County building.

Montreal, Que., July 19.—Montreal Gardeners' and Florists' Club, Royal Guardians' building, 211 Sherbrook street.

Newport, R. I., July 21.—Newport Horticultural Society.

Philadelphia, Pa., July 20, 8 p. m.—Florists' Club of Philadelphia, Horticultural Hall, Broad street, below Locust.

Providence, R. I., July 19, 8 p. m.—Florists' and Gardeners' Club of Rhode Island, 96 Westminster street.

Salt Lake City, Utah, July 20.—Salt Lake Florists' Club, Huddart Floral Co., 114 East Second South street.

Seattle, Wash., July 20.—Seattle Florists' Association, Second avenue and Columbia street.

St. Paul, Minn., July 20, 8 p. m.—Minnesota State Florists' Association, 510 Snelling avenue, north.

Toronto, Ont., July 20, 8 p. m.—Toronto Gardeners' and Florists' Association, St. George's hall, Elm street.

Winnipeg, Man., July 22.—Winnipeg Florists' Association.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—Young man studying for estry and paying his expenses through college wants outdoor work until fall in or near Chicago.
Key 850, care American Florist.

Situation Wanted—To recommend a sober and trustworthy greenhouse man; single; any firm wishing a man they can rely on. Address
THE MINGE FLORAL CO., Mobile, Ala.

Situation Wanted—German, 22 years old, wishes position in rose houses as section man; near Chicago preferred. Address
ERWIN EINSMANN
111 Mead Ave., Port Chester, N. Y.

Situation Wanted—By competent florist, age 39, single, German; 21 years' experience; able to take charge of place; south or southwest preferred. GEO. DORNER,
618 N. Hinds St., Greenville, Miss.

Situation Wanted—As gardener in commercial or private place; have had 12 years' experience; used to greenhouse work; good reference.
WM. BOCKER, care Young & Nugent,
42 W. 28th St., New York City.

Situation Wanted—As foreman, good grower of roses, carnations cut flowers, bedding plants; used to store work, seeds, designing, etc; up to date methods; age 35; references. Address
Key 851, care American Florist.

Situation Wanted—By sober young man who has had many years' experience in carnations, chrysanthemums bulbous and bedding stock; would prefer to take charge of place; can furnish best of references. Address
Key 854, care American Florist.

Situation Wanted—Gardener German, 25, desires position in commercial place; experienced grower of gardenias, carnations, 'mums and roses; best of references from Germany, France and England. Address WILLIAM BOCKER, care Mrs. Schaefer 428 E. 67th St., New York City.

Help Wanted—Strong young men for handling wheelbarrows and as helpers in greenhouses; steady employment to the right kind
POEHLMANN BROS. CO., Morton Grove, Ill.

Help Wanted—Married man who understands roses and carnations, to work under foreman; salary, $60 a month with house rent free. Address
IDLE HOUR NURSERIES, Macon, Ga.

Help Wanted—First-class designer, decorator and storeman for retail store. Address, giving particulars, salary, etc.,
Key 844, care American Florist.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address
Key 857, care American Florist

Help Wanted—Reliable traveling salesman to work market garden trade also to work in store; must have experience on the road also a thorough knowledge of the seed business; good salary to right party; best of references required.
J. F. NOLL & Co.,
115 Mulberry St., Newark, N. J.

For Sale—A growing florist business; a splendid opportunity for a good florist. For particulars write FRANK L. SMITH
The Land Man, Dwight, Ill.

For Sale—Greenhouse Property near Boston; dwelling house, barn, horses, wagons and tools; 13,000 or 14,000 feet of glass, city water; good home trade; easy terms.
Key 853, care American Florist.

For Sale—27,000 ft. of glass; six town lots 75x150 ft; five acres, two squares from greenhouses; good residence; small barn; all in good condition; doing a profitable business; will sell cheap; will send photos of place to any one interested and wants more information. Address
D. C. NOBLE & SON, Columbia City, Ind.

For Sale—Greenhouse plant of about 19,000 feet of glass; steam heat; cheap coal; all stock goes with the plant; six-room cottage; about one acre of ground; on car line; horse, wagons, tools, designs and all go with plant; a rare chance for a good florist with $5,000 cash; balance on easy terms; reason for selling, poor health, not able to look after the business. Address
A. D. JONES, Colorado Springs, Colo.

WANTED.

AT ONCE. A married man as florist and kitchen gardener. Must have experience and be capable of taking full charge of a private greenhouse and large grounds. Best of references required. A permanent position for a capable man. Address
J. M. STUDEBAKER, South Bend, Indiana.

For Sale.

Greenhouses, 15,000 feet of glass; near cemetery; no competition; everything in good order; fine chance.
Key 852, care American Florist.

BOILERS.

One 100-h.p. internal fired, for 125 lbs. steam; practically new. One 125 h.p. return tubular boiler, for 80 lbs. steam; in good condition.
Two NEW 25-h.p. upright boilers.
One new steel heating boiler for 600 feet steam radiation. One second-hand heating boiler for 1000 feet radiation.
Full specifications and price on application.
THE D. CONNELLY BOILER CO., Cleveland, O.

WANTED --- At Once

A good grower of roses, carnations, 'mums and general line of pot plants; must be able to produce results; permanent position and good pay.
—— Address ——
Key 839, care American Florist.

For Sale.

The finest place in northern Ohio, doing fine retail and wholesale business with chance to increase 50%; within one hour ride from Cleveland with electric and steam Ry.; eight room dwelling, 5 room boiler house, 7 houses, 2 steam boilers, steam trap, fine city water; everything complete.

This place will interest you if you are looking for something good.

Key 855, care American Florist.

Low Rates to Chicago

The Chicago Association of Commerce has arranged with the Western Passenger Association for a special rate of one and one-half fare for the round trip during months of July, August and September.

Write us for further particulars.

VAUGHAN'S SEED STORE, Chicago

NOTICE
—OF—
STOCKHOLDERS' MEETING.

CHICAGO, July 17, 1909.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the stockholders of the American Florist Company will be held in the Gibson House, Cincinnati, Ohio, Wednesday, August 18, 1909, at 3 o'clock p. m., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres.
M. BARKER, Sec'y.

Make Your Want Known

If you want to get rid of it.
A want advertisement in the

AMERICAN FLORIST

will do what you want. Try it now. Back of every ad is a real want, so it pays to answer them. : : : : :

Notice is Hereby Given

That the partnership heretofore subsisting between us the undersigned **Stuart Henry Low** and **Edward Valentine Low** carrying on business as Nurserymen and Orchid Growers at **The Royal Nurseries, Bush Hill Park, Enfield, Middlesex,** under the style or firm of **Hugh Low & Co.,** has been dissolved. The said Stuart Henry Low will in future carry on business at **Bush Hill Park,** aforesaid under the style of **"Stuart Low & Co."** and the said Edward Valentine Low will carrry on business at the **Orchid Nursery, Vale Bridge, Haywards Heath, Sussex,** under the style of **"Edward V. Low."** All debts due to and owing by the said late firm of Hugh Low & Co. up to and including the 2nd of June, 1909, will be received and paid respectively by Frederick Orlando Collier, of 15, 16 and 17 Eldon Street, London, E. C., Chartered Accountant. Dated this 15th day of June, 1909.

(Signed) **STUART H. LOW.**
(Signed) **EDWARD V. LOW.**

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

E. A. Beaven
LOG MOSSES
Natural and Perpetuated.
Special prices for quantity lots for future delivery.
EVERGREEN, ALABAMA.

George Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns. Bronze and Green Galax. Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK.

Cincinnati.

SOME STOCK SHORT.

While business was not very heavy the past week there was less evidence of a glut, in fact we experienced a shortage in some lines. Good roses were scarce but there was an abundance of carnations, especially white. Sweet peas were equal to the demand and the same may be said of Longiflorum and Rubrum lilies. Some exceptionally fine gladioli were to be seen at Wm. Murphy's early in the morning which were eagerly sought for at $5 per 100. Undoubtedly the light colors were responsible for this as they were good property for funeral work. Green goods of all kinds were to be had in quantity with a satisfactory demand and trade in the florists' supply line was good.

The regular monthly meeting of the Florists' Society was held at the Zoological gardens on Saturday, July 5 at 5 p. m. with about 30 members present. Reports from the different committees in charge of convention affairs were heard and everything is working smoothly. J. Elias McCullough was present and donated a fine gun for first prize in the shooting contest and he was tendered a vote of thanks by the society. It was definitely settled to hold the president's reception at the Zoological gardens and Albert McCullough, the chairman of this committee, was instructed to make the necessary arrangements so we can look for something out of the ordinary on the night of August 17. Coney Island was selected as the place to hold the barbecue. This feature will be a hummer and a fitting wind-up for the biggest convention ever held by the Society of American Florists.

We regret to learn of the death of Herbert Heller of New Castle, Ind. Herbie was well known in this city and was a frequent caller. His many friends here take this method of extending their sympathies to the bereaved family. E. G. Gillette went to New Castle Sunday night to be present at the funeral which took place Monday morning and was, we learn, largely attended by people from all walks of life, showing the esteem in which the deceased was held.

E. F. Winterson of the S. A. F. sports committee came down from Chicago last Sunday and all day Monday was around with the local committees on sports. He was agreeably surprised to find how nicely everything had been arranged by our committees and left for the windy city Monday night feeling that affairs at this end are in good hands.

Miss Cora Pherson, bookkeeper for Wm. Murphy, returned from a month's vacation last Monday. She did not gain as much in weight as last year, being shy two pounds, but at that she looks good to some of the boys hereabouts.

There will be a meeting of the executive board of the Florists' Society on Monday night, July 19, at 8 p. m. at the Sinton hotel. We should like to see every member present as a lot of business is to be transacted.

S.

Fancy and Dagger FERNS $1.25 per 1000
Discount on large orders.
New Crop Galax, Bronze or Green, $1.25 per 1000; 10,000, $7.50
Sphagnum Moss, large bales..... $1.25
Leucothoe Sprays.....$1.00 per 100; 1000, 7.50
Boxwood.....35c per bunch; 50 lbs., 8.50
Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.
MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

New Crop Hardy Cut Ferns
FANCY and DAGGER.
50c per 1000.
Laurel Roping, Fine quality 5c per yard.
Bouquet Green, in bulk or roping, 7c per lb. 5c per yd
Sphagnum Moss, fine qualty, 60c per bbl.
Florists' Supplies of all kinds.
Cash with all orders.
All orders promptly attened to
THOMAS COLLINS,
Box 241, HINSDALE, MASS.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones. **ST. LOUIS, MO.**
Supplies and Everything in Season always on hand.

Wholesale Flower Markets

ST. LOUIS, July 14.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Kaiserin	2 00@ 6 00
" Killarney	2 00@ 4 00
Carnations, fancy	2 00@ 2 50
" common	1 00@ 1 50
Lily of the Valley	2 00@ 3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy per 1000	2 00
Smilax	12 50

CINCINNATI, July 14.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Callas	10 00
Daisies	50
Lilium Harrisii	12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches per bunch, 50c	
Boxwood per lb, 15c	
Ferns, Eastern per 1000, $1 50	
Galax, Green and Bronze	1 00
Leucothoe per 100, 50	
" per 1000, 4 50	
Smilax	1250@15 00

BUFFALO, July 14.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	2 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Carnations	1 00@ 2 00
Gladiolus	4 00@ 5 00
Lilium Longiflorum	8 00@15 00
Lily of the Valley	3 00@ 4 00
Snapdragon	1 00@ 2 00
Sweet Peas, outdoor...doz. bu	50@ 1 00
Water Lilies	2 00@ 3 00
Asp. Plumosus strings...each	50@ 60
Ferns per 1000	1 50
Galax per 1000	1 50
Smilax strings	15 00

—THE—
J. M. McCullough's Sons Co.,
Wholesale Commission Florists.
— CONSIGNMENTS SOLICITED. —
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

New Crop Ferns
FANCY and DAGGER ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
Evergreen, Alabama.

Ferns NEW CROP.
Fresh from the patch
Fancy and Dagger Ferns, $1.00 per 1000.
Discount on large orders. If you want the cream of the season, send orders now. Sixteen years' experience. Send cash with first order.
Green Galax, 50c per 1000.
J. N. PRITCHARD, Elk Park, N. C.

H. G. BERNING,
Wholesale Florist,
1402 Pine St.. ST. LOUIS, MO.

Summer Roses

We make a specialty of **Kaiserin, Pres. Carnot, Killarney, Richmond, Perles** and **New Beauties** during the hot weather, and have built cold storage facilities to handle **Summer Roses** alone.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$2 00 to $2 50
24 inch	1 50
15 to 18 inch	1 00
12 inch	75
Shorter stems	50

KILLARNEY, BRIDE, RICHMOND and PERLE

	Per 100
Long	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$2 00 to 3 00

KAISERIN, CARNOT,

	Per 100
Long and select	$8 00
Good average lengths	$5 00 to 6 00
Medium lengths	4 00
Short lengths	3 00

Short Roses in not less than 500 lots, per 1000 ..... $20 00

CARNATIONS.

	Per 100
Fancy, long, Red O. P. Bassett	$1 50
White and Winsor	$1 00 to 2 00
Enchantress	1 00 to 2 00

EASTER LILIES, per 100	$10 00
" " per doz	1 50
LILY OF THE VALLEY, per 100	2 00 to 3 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, new crop, per 1000	1 50

BASSETT & WASHBURN

Store and Office: 76 Wabash Ave. CHICAGO Greenhouses: HINSDALE, ILLINOIS.

Chicago.

President Otto Schneider of the board of education is up against some pretty strong opposition in his fight for re-election. Alfred R. Urion is making the running against him with T. W. Robinson, Chester M. Dawes and Frank I. Bennett as strong supporters. The strong, progressive men of the board are in the saddle and with the newly appointed members are striving to place the school board on a business footing. It is hoped that one of their early acts will be to remove the ban on flowers at school exercises.

C. L. Washburn, of Bassett & Washburn, lately returned from a three days' auto trip through Wisconsin, reports that they will soon begin cutting their summer lilies. He also says they have been particularly successful with their Kaiserin this season and shows some especially fine blooms to bear out his statement. Mrs. W. E. Horton, bookkeeper for this firm, is spending her vacation at Racine, Milwaukee and other nearby points. Joe Einweck, shipping clerk for the same house, is also taking a well earned rest.

Two men were badly beaten and six arrested as the result of a riot at the pickle farm of the L. A. Budlong Co. in Bowmanville, July 8. The men hurt were taken for detectives and attacked by laborers at the plant.

Bernard Schwierer, manager of the Geo. Wittbold Co.'s Clark street store, and Joe Schouten, of the cut flower department at the Buckingham place establishment, are on their vacations.

Joe Foerster, of the J. B. Deamud Co., was called away June 12 by the news of the sudden death of his father in Medway, Ont. His friends in the trade extend their sympathy.

Walter G. Matthews, who has been in Kansas City for the past year passed through the city on his way to Dayton, Ohio, to take up a position with his father.

(OTHER CHICAGO NOTES ON PAGE 1272.)

Mount Tamalpais to Become Public Park.

San Francisco, July 9.—Mount Tamalpais, famous among the tourists of the world as the location of the crookedest railroad, and almost equally noted as the most conspicuous scenic point about San Francisco bay, will be shortly converted into a vast public park, if the plans of some of the leading citizens of the trans-bay cities prove successful.

Besides being used as a public park, the mountain will become the source of a municipal water supply for the trans-bay cities, as it is in the water district set aside by the last legislature. At the head of the committee promoting the affair is William Kent, who gave the Muir redwoods to the government for a national park. This park is situated on the slope of the mountain.—Los Angeles Express.

CHAMPAIGN, ILL., July 12.—The Illinois Florists' Association's advisory committee met here today to consider plans for the coming year. There were present the full committee, Messrs. Rudd and Vaughan of Chicago, Ammann of Edwardsville, Gullett of Lincoln and Washburn of Bloomington. Professors Blair, Dorner and Hopkins met with the committee. In a general way it was thought best to devote the efforts of the station towards continuing the fertilizer experiments to definite results and to add one new house to the present plant.

C. A. KUEHN,
Wholesale Florist,
1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

RICE BROTHERS
Wholesale Florists and Supplies.
115 N. 6th St., MINNEAPOLIS, MINN.
Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns. Prices quoted on large quantities.

Shibeley-Mann Co., Inc.
WHOLESALE DEALERS IN
FLORISTS' SUPPLIES and Cut Flowers
1203 Sutter St., SAN FRANCISCO, CAL.

Wietor Bros.,
Wholesale Growers of ..CUT FLOWERS..
51 Wabash Avenue, CHICAGO.

—PRICE LIST—

American Beauty	Per doz.
Long stems	$4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75

	Per 100
Killarney, select	$8 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, se'ect	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Valley	2 00 to 4 00

Asparagus Plumosus Extra quality, per bunch 75c
Fancy Ferns, per 1000 ..... $4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

Weiland & Olinger,
128 E. Third St., CINCINNATI, OHIO.
Wholesale Growers and Shippers of Cut Flowers.
Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,
WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

H. N. BRUNS,
1407-11 W. Madison St., CHICAGO.
LILY OF THE VALLEY.

Killarney Never before have we shown Killarney, with such perfect coloring and long stems.

Auratum Lilies are coming in good shape. Fine substance. Will ship well.

GLADIOLUS, CARNATIONS and FANCY VALLEY are the best the market affords.

Headquarters for **FANCY FERNS.**

Complete Stock of Florists', Growers' and Nurserymen's Supplies.
Send for our Weekly Price List unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago.**

Chicago.*

PEONIES VS. ASTERS.

Peonies are no longer a factor on the local market; the call for them is becoming beautifully less each day. The buying public is tired of them and turns up its nose at even the choicest blooms. Thousands of dozens still remain in cold storage literally eating their heads off, those that are not eaten off falling off almost as soon as they strike the superheated air with which the great inland summer resort is being favored at present. Then enters the dominant chord of this minor theme—the lowly aster—and, working its way slowly and gracefully, but no less insidiously around the peony swan song, resolves itself into a triumph song of victory and in the ensemble the peony is lost.

While this may be in a measure prophetic, the cold hard facts that stare us in the face outline the situation so clearly that he who runs may read. Already asters are coming in, not a great many to be sure, but in increasing quantity each succeeding day, while the cold storage is full of peonies of, to say the least, doubtful quality. What is to become of them? It does not require a prophet to answer this question. Sweet peas literally swarm all over the market—good ones too, especially those of the Spencer variety—but the buyers are deaf, or asleep, or on a journey and do not respond to the frantic appeals of the seller who is offering his wares at whatever price they will bring.

The rose situation is in no wise altered from our report of a week ago. Killarney, Kaiserin and summer American Beauties are of very good quality and in fair demand, the extra select bringing good prices while the second quality are hard to move at any price. There are also a few My Maryland and President Carnot, with a sprinkling of Perle. Bride and Bridesmaid are small budded and sell only in small lots while Richmond is almost out of the race. Carnations—but what's the use?

NOTES.

No hope is held out by the physician in charge for the recovery of Uncle John Thorpe, the report from his bedside on Wednesday of this week being that he was slowly sinking and it was only a matter of a few days at the longest until he passes from the cares of this world.

W. H. Gullett, of Lincoln, now in his seventy-seventh year has been a patient at Mercy hospital for a few weeks; he is believed to be mending now and likely to round out a long and useful life. He has seen a great advance in floriculture in 30 years.

E. C. Amling is spending the greater part of his time away from his business during the quiet season, but John Michaelson reports they are still having a big run on American Beauty, of which flower he is showing some fine specimens.

A. Malchow of North Clark street reports a fine spring trade. He sold out entirely of bedding plants and could have sold more. The night blooming cereus has been flowering with him and proved quite an attraction.

The Chicago Evening Post says: Another one of Jens Jensen's appointees has been removed from office. Slowly and surely it becomes evident that the west parks are slipping back under the paralyzing control of politics.

The committee in charge of the arrangements for the Florists' Club picnic met at Zech & Mann's on Wednesday evening to complete their final plans for July 22.

W. J. Smyth is improving rapidly and the physicians state that there is now no danger of any permanent stiffness resulting from his late auto accident.

Nick Wietor is keeping his family and friends well supplied with the succulent muscallonge that he is sending down from the lakes.

J. B. Deamud leaves for the farm July 16, returning to the city in time to go to the S. A. F. convention a month hence.

Reports from Aurora bring tidings that John Smely is around again, little the worse for his scalding bath of two weeks ago.

The first large shipment of Lilium Harrisii is due in New York on Friday and French bulbs the week following.

The A. L. Randall Co., is showing some very handsome long stem Killarney and choice Gladiolus America.

The West Park policemen are petitioning for an eight-hour day. Park police work must be strenuous.

Frank Ayres left July 15 for an extended trip through Canada,

C. M. Dickinson is at his summer cottage at Pelican Lake.

Visitors:—Chas. Schnell, of L. S. Donaldson Co., Minneapolis, Minn.; Clyde Waterbury, Denver, Colo.; J. R. Johnson Dwight; Miss Kirk, with J. M. McCullough's Sons' Co., Cincinnati, O.

(OTHER CHICAGO NEWS ON PRECEDING PAGE.)

* Remember to close the store July 22 and take all hands to the picnic.

RIVERVIEW

DON'T FORGET the date of the

Annual Picnic Chicago Florists' Club

ON

Thursday, July 22, '09

at Riverview Picnic Grove

ALL CAR LINES

BALL GAME. DANCING. RACES.

Come and Bring All the Family

Admission, 50c. Children under 15, accompanied by parents, **free.**

SHIPPERS!

All Commission and Wholesale Houses on the Chicago Market will close at noon Thursday, July 22.

PETER REINBERG

Grower and Wholesaler of

Cut Flowers

1,800,000 Square Feet of Glass.

HEADQUARTERS FOR AMERICAN BEAUTY.

51 Wabash Ave., CHICAGO.

Quality Counts.

Let us have your next order for
Roses and Carnations
and other Seasonable Flowers.

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51 Wabash Ave., CHICAGO.

Zech & Mann

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Room 218, 51 Wabash Ave., CHICAGO

Telephone, Central 3284.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central 6004. Catalogue Free.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.
Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

"The Busiest House in Chicago."

J. B. DEAMUD CO.,

51 Wabash Ave., Chicago.

KENNICOTT BROS. COMPANY

WHOLESALE CUT FLOWERS

48-50 Wabash Ave., Chicago
L. D. Phone, Central 466.

We will have anything in the line of
CUT FLOWERS and GREENS
that you may want if anybody has it at
Chicago market prices on day of shipment.

Weiland & Risch

Wholesale Growers and Shippers of
Cut Flowers
Phone Central 879.
Write for our wholesale price list.
59 Wabash Avenue., CHICAGO.

Vaughan & Sperry,

Wholesale Florists,
52 and 54 Wabash Ave., CHICAGO.
WRITE FOR SPECIAL PRICES

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

Wholesale Flower Markets

CHICAGO, July 14.

Roses, Beauty, extra select...		3 00
" " 30 in		2 50
" " 24 in.....		2 00
" " 20 in		1 50
" " 12 in		1 00
" " Short		75
	Per 100	
" Bride, Bridesmaid, select..	4 00@	6 00
" " " medium	3 00@	4 00
" Chatenay, Sunrise....	3 00@	6 00
" Golden Gate, Uncle John..	3 00@	6 00
" Kaiserin	3 00@	00
" Kate Moulton.....	3 00@	8 00
" Killarney, select.....	6 00@	8 00
" " medium	4 00@	5 00
" Mrs. Marshall Field	4 00@	6 00
" Mrs. Potter Palmer.....	4 00@	8 00
" Perle	6 00@	8 00
" Richmond, extra select....	6 00@	8 00
Carnations, select, fancy.....		1 50
" common.....		1 00
Cattleyas.....per doz.	6 00	
Daisies.....	75@	1 00
Lilium Harrisii per doz, 1 50@2 00		15 00
Lily of the Valley.....	3 00@	4 00
Peonies, select.....	2 00@	6 00
Sweet Peas.....	35@	75
Adiantum	75@	1 00
Asparagus Plum, strings..each	50@	60
" " sprays	2 00@	4 00
" Sprengeri.....	2 00@	00
Ferns.....per 1000	2 50	
Galax, green..per 100 15; per 1000		1 00
" bronze.per 100 15; per 1000		1 00
Leucothoe sprays.....	75@	1 00
Smilax strings .....per doz.		1 50

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Peonies, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Always mention The American Florist when you order stock. : : :

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of CUT FLOWERS

The Benthey - Coatsworth Co.

35 Randolph St. Wholesale Florists CHICAGO.

Send Advts. Early for Best Display and Position.

NOTICE!

Manhattan Flower Market

WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

STOCK POOR.

The wholesale district is very quiet, with a light supply of good stock and buyers very shy. Special American Beauty and tea roses are rather scarce but the demand being so light there is no inconvenience. Special Beauties bring 25 cents, Killarney six and eight cents. The carnations hold on better than was expected but are selling very cheap and as the asters are now beginning to come in considerable quantities, things look rather blue for the divine flower. There is a great supply of feverfew, candytuft and other white stock, and about the only excuse for its being here seems to be that it is easy to grow. Hollyhocks are also being sent in by the boxful, cut short for wiring in funeral work, and some of them sell. The district is full of sweet peas, many of them very short stemmed, and if the present dry weather continues they will soon be shorter.

July 12.—The market is stagnant this morning, with practically a dearth of special American Beauty roses. The few that arrive sell readily at 25 cents each. Small lots of good Killarney and Kaiserin Augusta Victoria are coming in. When wanted they bring five and six cents each, but the demand is light.

NOTES.

The private gardeners are well represented on the official board of the recently organized National Sweet Pea Society of America. Harry Turner, president, is head gardener at Castle Gould, the estate of Howard Gould. As vice-president of the New York Florists' Club he succeeded to the office of president on the death of E. V. Hallock. At the various exhibitions held here within the past few years he has exhibited fine stock and taken a number of prizes. W. H. Waite, vice-president, is superintendent of the extensive estate at Greystone, N. Y., of Samuel Untermeyer, a lawyer of national reputation. Mr. Waite is a capable and clever young man, popular with the fraternity. William H. Duckham, treasurer, has long been known as the guiding spirit of the horticultural features on the extensive James estate, Madison, N. J. He is a modest man, but it is simple justice to state that he thoroughly understands his business and gets results, and has few equals in his chosen profession. Harry Bunyard, secretary, is one of ye seedsmen or camp followers. For aught we know he may be a good gardener, but we never saw him work at it; he sells the seeds and lets the other fellows do the sowing and watering. It is recognized as a fact that he is very active and energetic in all he undertakes and the sweet pea society is striking proof of his industry.

Henry Pritchard and wife of Astoria celebrated Independence day by giving an old fashioned chowder party to a large gathering of relatives and friends. Mr. Pritchard is a well known grower of Astoria and though past the meridian of life, both he and his wife are hale and robust and enjoy the company of young people. Among those present were Arthur Pritchard, a son, who is manager of a large retail store in this city, Walter Pritchard, another son, and a number of grandchildren.

Chas. H. Totty, ex-president of the Florists' Club, has taken over under lease, the Florham Farms greenhouses, located at Madison, N. J. This new move of Mr. Totty will give him a glass area of about 100,000 square feet and will also give him an opportunity to show the trade that there is "plenty of room at the top" for a man who thoroughly understands his business. You can depend upon it that he will make good!

The florists, seedsmen and their friends are now driving dull care away

Charles H. Totty, Madison, N. J.

New Lessee of the Florham Farms Greenhouses.

by attending excursions and outings. The Greek-American Retail Florists' Association will hold its annual outing at Witzel's Point View Grove, College Point, July 29. The steamer Isabel has been chartered and judging by the experience of last year, all comers will enjoy a pleasant day.

Christatos & Koster, retailers, have removed from 706 Madison avenue to a much larger store with a conservatory attached, just across the street from their old store. They have taken the whole building at their present location and will lease the upper floors.

F. Pollatcheck, the Lenox Cliff Florist of 1177 Third avenue, has recently executed a very elaborate window decoration in which a landscape scene is represented. It is a happy combination of realism and comedy and it is up to Oscar Hammerstein to beat it.

A policeman and a chauffeur have been arrested in connection with the theft of rhododendrons from the valuable Sage collection in Central park, and it is rumored that other persons are implicated.

The retail associations are whiling the happy hours away by boycotting a leading wholesale firm. The man who talks for this firm says, "We'll give them the fight of their lives."

James Coyle, of Froment's, has gone to the beach with his family for an extended vacation.

25th Annual

Trade Exhibit

OF THE

Society of American Florists

and Ornamental Horticulturists

TO BE HELD

AT CINCINNATI

Aug. 17th to 20th (inclusive)

For space and rates apply to

WM. MURPHY,

311 Main St., CINCINNATI, O.

Geo. Allen has taken his family to Rockaway beach for a vacation of two weeks, Pap. J. K. remaining on the job.

Arthur Hunt, of A. H. Langjahr's, left with his family July 11 for a two weeks' vacation in Sullivan county.

Traendly & Schenck, W. F. Sheridan and Henshaw & Fenrich are closing at 3 p. m. for July and August.

Charles Schenck of Traendly & Schenck is enjoying a vacation.

St. Louis.

TRADE DULL, STOCK POOR.

The very warm weather which we are now having helps if possible to make trade duller. The little stock now arriving shows plainly the effect of the intense heat, carnations arriving in many instances all shrivelled up. Good stock is at a premium and is sought after. White roses are scarce and in demand. Asters are now coming in more plentifully; some few single tuberoses are seen, sweet peas are at an end and gladioli are now in greater supply, light colors selling the best.

NOTES.

The Florists' Club held its monthly meeting last Thursday, 20 members present, W. C. Young, president, in the chair. The nomination of officers was the principal event. The following were nominated: For president, F. J. Fillmore, W. C. Young; for vice president, John Connon, Henry Kahrs; for secretary, J. J. Beneke; for treasurer, W. C. Smith. Three year term one trustee, F. H. Weber, A. J. Bentzen. The election will take place at the next meeting which will be held at the greenhouses of the Bentzen Floral Co. by invitation. It was announced that the club will have a special over the Big Four, leaving by night, chaperoned by W. C. Smith, for the convention. Also another special leaving by day, over the B. & O. chaperoned by F. H. Meinhardt. A communication was read from the Horticultural Society through its secretary, Otto G. Koenig, requesting the cooperation of the Florists'

1887 Telephone 167 Madison Square. 1909

J. K. ALLEN, Wholesale Commission Florist, Established 1887.
106 West 28th Street, NEW YORK CITY.

Open the year around to receive shipments of Cut Flowers.
Open Every Morning at 6 a. m. Prompt Returns To Shippers

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WHOLESALE FLORISTS,
44 West 28th Street, New York City.
Phones, 798 and 799.

CHARLES MILLANG Wholesale Florist
On the ground floor of New York Cut Flower Co. and Cut Flower Exchange,
26th Street and 6th Avenue and 444 6th Avenue, NEW YORK
Open from 6 a.m. to 6 p.m. The "Hub" of the Wholesale District.

GROWERS' CUT FLOWER COMPANY
WHOLESALE FLORISTS
J. J. COAN, Manager. Consignments Solicited.
Telephone 6237 Madison Square. 39 West 28th Street, NEW YORK

Alexander J. Guttman,
THE WHOLESALE FLORIST OF NEW YORK
34 WEST 28th STREET
PHONES, 1664-1665 MADISON SQUARE
ENOUGH SAID

—FLOWERS SHIPPED BY—
JOHN I. RAYNOR
Are the best product of the best growers for the New York Market.
Adiantum Croweanum sold here exclusively.
49 West 28th St., NEW YORK.
Telephone 1998 Madison Square.

Millang Brothers,
Wholesale Florists,
41 W. 28th St. NEW YORK.

N. Y. Cut Flower Exchange
Coogan Bldg., 6th Ave. & W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.
Desirable Wall Space to Rent for Advertising.
V. S. DORVAL, Secretary.

KESSLER-BROS.
50 W. 28th St., NEW YORK.
CUT FLOWERS
Wholesale Plantsmen and Florists.
Phone 2336 Madison Shipments Everywhere.
Prompt and satisfactory. Consignments solicited.

Club in the getting up of the monster flower and fruit show to be given by the Horticultural Society in the new Coliseum building. J. J. Beneke moved that the club accept and donate $50 in special prizes to be given to local growers only or such out-of-town growers who are members of the Florists' Club.

Robt. J. Windler is having a good time; he is traveling north and visiting Canada. Jim Young, of Young & Sons, will shortly leave on a vacation for Atlantic City. Mrs. John Young, widow of the late John Young, has already left. Jim Arado, manager of the cut flower department of C. Young & Sons, has left for two weeks. Al Gumz, salesman at George Angermueller's, has left for two weeks. Max Rotter, from latest reports, is having a fine time in Germany. Miss Martha Hebbig, saleslady at Robert Windler's, will leave shortly. Mrs. Ellison left last week for Michigan resorts.

Regrets and sympathy are extended to the friends of Herbert Heller, of New Castle, Ind. He was a frequent visitor to this city and attended many of our flower shows as an exhibitor.

C. A. Kuehn has been getting some good prices for regular shipments of Amman's carnations, notwithstanding the slow market. J. F. must know how to put a finish on his pinks.

W. F.

VALENTINE & CO.
Wholesale Dealers in
CUT FLOWERS
158 East 110th St., Between Third & Lexington Aves. New York City

Wholesale Flower Markets

NEW YORK, July 14.

	Per 100
Roses, Beauty, special	15 00@20 00
" " fancy	10 00@12 00
" " extra	6 00@ 8 00
" " No. 1	2 00@ 3 00
" " No. 2 and No. 3	50@ 2 00
" Bride, Bridesmaid, special	3 00@ 4 00
extra and fancy	1 50@ 2 00
No. 1 and No. 2	50@ 1 00
" Kaiserin Aug. Victoria	50@ 5 00
" Killarney special	5 00
extra and fancy	1 00@ 1 50
" Richmond	50@ 4 00
Carnations, fancy and special	1 00@ 1 50
" common	25@ 50
Callas, per doz.	40@ 50
Cattleyas	10 00@35 00
Coreopsis	25@ 40
Daisies	50@ 1 00
Feverfew, per doz.	50@ 60
Gladiolus	1 50@ 3 00
Gardenias, per doz.	1 00@ 3 00
Lilium Longiflorum	5 00@ 6 00
Lily of the Valley	1 00@ 1 50
Asters	1 00@ 3 00
Sweet Peas, per 100 bunches	50@ 3 00
Asparagus, doz. bunches	1 50@ 2 50
Smilax, per doz. strings	75@ 1 50

ALFRED H. LANGJAHR
WHOLESALE FLORIST,
55 W. 28th Street, NEW YORK.
All flowers in season. Consignments of first-class stock solicited.
Telephones 4626 and 4627 Madison Square.

Tel. 1009 Madison Sq. Established 1872
PERKINS & NELSON,
Wholesale Florists,
Room 112 Coogan Bldg. Cor. 6th Ave. and 26th St. NEW YORK.

Moore, Hentz & Nash,
Wholesale Commission Florists
55 and 57 West 26th Street,
Telephone No. 756 Madison Square. NEW YORK.

Mention the American Florist when writing

HORACE E. FROMENT
WHOLESALE COMMISSION.
American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.
57 West 28th St., NEW YORK CITY
Telephones: 2200 and 2201 Madison Square.
Mention the American Florist when writing

Walter F. Sheridan
WHOLESALE FLORIST,
Telephones: 3532 and 3533 Madison Sq.
39 West 28th St., NEW YORK
Mention the American Florist when writing

Young & Nugent,
Telephone, 2065-2066 Madison Sq.
42 West 28th St., To out-of-town Florists: We are in the Heart of New York
And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

FORD BROS.,
Receivers and Shippers of
Fresh Flowers
48 West 28th St., NEW YORK.
Telephone 3870-3871 Madison Square.

Philadelphia.

ROSES SCARCE.

The trade situation and demand are about as usual for the season of the year. There is an abundance of stock such as it is. Good roses are scarce, particularly white ones, the Bride being down and out with very light shipments of Kaiserin. Carnot and My Maryland, are the varieties that seem to defy the hot weather and very good stock of these kinds are seen. New crop American Beauty is offered in small quantities; the color is fine. Sweet peas are suffering from the drought as are all other outdoor flowers. The growers say rain is badly needed as many things are actually shriveling up and only a soaking rain will save them. Convention matters are uppermost in the minds of the craft and preparations for an elaborate display by the supply men and growers of this city are being perfected. This city is always a great factor in the trade exhibition and promises this season to outdo her former efforts. Large spaces have been engaged by H. A. Dreer Co., Robert Craig Co., Chas. Ball, Samuel Ball of the plant men and H. Bayersdorfer & Co., M. Rice & Co., The S. S. Pennock-Meehan Co. and Jos. G. Neidinger, will all be represented with extensive exhibits. From all indications there will be a large attendance of members of the society to this silver anniversary. The fare from here for the round trip will be about $27 net. The route has not as yet been decided, Chairman John Westcott and his committee not having made final arrangements.

In looking through an old copy of a bound edition of the Philadelphia Florist of the years 1852-3, a publication issued monthly, the first number of which is dated May, 1852, I find the following note of interest: "H. A. Dreer, 59 Chestnut street, has a neat garden and conservatory in Sixth street near Haverford road, Mantua village, where he cultivates choice flowers and greenhouse plants. He gives much attention to the supplying of choice bouquets, and has a good selection of flowers for that purpose." An advertisement taken from the Gardeners' Chronicle of England was published as an item of interest. "Wanted a gardener. A clergyman wants a sober industrious man, who understands greenhouse and usual garden work. He must be able to milk a cow, and to make himself generally useful, as no other help is kept regularly. He must be able to teach, and lead a band, and to sing in church. A young man of obliging disposition and good character will find a comfortable and constant place and his wages increased; but they will be but moderate at first, address postpaid, etc."

The sympathy of the trade goes out to Godfrey Aschmann in the death of his wife on Saturday last, July 10. The funeral, which occurred on Wednesday, was largely attended, the casket being surrounded by quantities of flowers sent by her many friends.

John Westcott and family are spending a few weeks' vacation at Waretown, where the fishing is now excellent. Many large catches have been made.

Wm. McKissick & Bros. are getting some fine My Maryland roses. Easter lilies are also seen here in quantity.

George Burton is sending in new crop American Beauty roses of fine quality to the Leo Niessen Co. K.

BANGOR, PA.—Samuel Stone is building an office at his greenhouses.

WOBURN, MASS.—John Newman is building a new greenhouse, 500 feet long.

Pittsburg.

TRADE KEEPING UP WELL.

Considering the usual state of the market in July, business is keeping up very nicely this month. Of course the outdoor stock is not here yet in quantities, enough to make the market feel as though it's all coming in and nothing going out. American Beauty roses are very poor, but as there is an abundance of lilies and gladioli no one cares. Asters are slowly making their appearance.

NOTES.

On the evening of July 9, Walter Breitenstein entertained a few of his florist friends at the Duquesne canoe club of which he is an enthusiastic member.

The employes of Randolph & McClements held a picnic in Highland park, Wednesday evening, July 7.

Henry Blind has moved his residence from West View to East Liberty.

Miss Geib of the McCallum Co., is away on her vacation.

M. F. Stafford left the employ of J. J. Fuchs, July 1. J.

GARDEN PARTY GIVEN BY MISS FORBES OF FORBES & DONAHEY, WHEELING, W. VA.

Boston.

CARNATIONS SCARCE.

The week has been uneventful. A fair demand for funeral work has been the only activity. This trade is well distributed through the city and suburbs which latter sections draw only lightly upon the local market for supplies at this season. The market has been thinned out perceptibly and relisting is being done. Carnations, which a week or two ago were being shown in splendid shape and in great quantities, have become very scarce. The growers have delayed their cleaning up season somewhat, but rapid strides are being made now to get in line with the fall stock. Satisfactory American Beauty roses are coming in and, as the demand is well maintained, prices have held solidly at reasonable figures ranging from $12.50 to $25 per 100. These roses represent the best value available as outside of Kaiserin there is scarcely anything good to be had. A number of growers are showing My Maryland for the first time and the new stock is looked upon with great favor. We hope that Richmond will display its old time form the coming season, otherwise we expect a better market for American Beauty, which no doubt the newer rose displaced for a time. The daily market is devoid of flowers of quality, a mass of all sorts of garden truck being held out to buyers who have but small choice in selections. Lily of the valley is improving slowly and a very fair product is now available. A few fine cattleyas are in and no difficulty is experienced in securing satisfactory returns.

NOTES.

W. T. Henderson of the Tremont street store of Thomas F. Galvin, Inc., is spending his two weeks in seeing the sights of Broadway and has included Coney Island in his itinerary. James M. Travers the "handsome" shipper of the same house is beaming over with mirth as during the week he was presented with a vigorous young son.

C. M. Robinson and Joseph Margolis, of the firm of H. M. Robinson & Co., are enjoying their vacations together, and are passing the time in fishing through the favorite resorts of New Hampshire. Meanwhile, Henry M., the head of the house, is spending every minute at his post directing the business.

Welch Bros. are handling an extra fine line of American Beauty, something which for quality is rarely equaled by July roses. The crop is an extensive proposition and seems amply able to support the local market for at least another month.

Wm. Glidden the popular uptown agent for J. A. Budlong & Co. is spending the next two weeks in well earned rest and has retired with his family to the Blue Hills. B.

ALLENTOWN, PA.—John Sykes will build a new greenhouse at his place at Tenth street, 20x130 feet.

RANDOLPH, VT.—H. M. Totman is carrying out extensive additions and alterations to his greenhouse.

JACKSONVILLE, FLA.—Giving notice that they would apply to the governor on August 9 for letters patent, C. D. Mills, C. L. Bragg, C. Leslie Whipp and W. W. Key have signified their intention of incorporating themselves into a company for the purpose of conducting a general florist, nursery, horticultural, pottery and real estate business. The name of the concern, which is really an incorporation of the present business of C. D. Mills, will be Mills, the Florist, and the main office of the company will be located at 36 West Forsyth street. It is stated that the authorized capital stock of the new concern will be $100,000, divided into 1,000 shares of the par value of $100 each. In the notice of the intention to apply for letters patent, it is set forth that the directors of the firm may issue preferred stock to an amount not exceeding $25,000.

Field-grown Carnation Plants
Ready Early in July. Send for List and Prices.

The Leo Niessen Co.
Wholesale Florists, 1209 Arch St. Philadelphia.

AMERICAN BEAUTIES
Lily of the Valley, Carnations and all Tea Roses,
In lots of one hundred to one thousand. Phone or wire us.
WELCH BROTHERS, 226 Devonshire St. **Boston, Mass.**

Grafted and Own Root Rose Plants
American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.
—Send For Prices.—
W. H. Elliott, Brighton, Mass.

The McCallum Company
Wholesale Cut Flowers and Florist Supply House.
Headquarters of Western Pennsylvania Growers.
937 Liberty Ave., PITTSBURG, PA.

Choice Assortment of CUT FLOWERS will be found here.
WRITE FOR PRICES.
W. E. McKissick & Bros.
WHOLESALE FLORISTS.
Absolutely The Best Possible Service.
Business Hours 7 a. m. to 8 p. m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

Baltimore.

STOCK AND BUSINESS POOR.

The torrid heat which, with an unprecedented rainfall, made an abnormal June, has given place to the usual drought, and, on the surface at least, things are parching. Gardens are at a standstill and outdoor blooms are almost completely lacking. A great army of people left the city for the Independence day celebration, and many will remain away for the balance of the summer, thus removing a large proportion of consumers and naturally the best spenders. What trade was offering, met a handicap in the scarcity of cut flowers. With conditions so unpropitious and so many houses pulled out it is almost impossible to get any stock of real quality, this holding good both of roses and carnations. Sweet peas are slacking up and so are lilies. A few asters are coming in, but they are inferior, as is to be expected. Some good gladioli are seen, but their use is limited and they are hard to sell.

NOTES.

John Cook, the veteran rosarian who has had so long a conflict with rheumatism, is gradually but slowly improving. Though he has not yet ventured into the city he is able at times to get about his beautiful place and look after his ever-increasing collection of hybridized roses and note the characteristics of the older and rarer crossings. He is delighted with the behavior of his garden rose, Radiance, which has been lovelier this season then ever before, the color being vivid, the fragrance delightful, and the stems equal to house-grown kinds. A new red, a cross of Etoile de France and one of his own seedlings, gives great promise. Mr. Cook is naturally much gratified with the reports which the papers contain of the success of his My Maryland and its adaptation to all sections of the country.

The abolition of board fences and the substitution of live hedges, with the inevitable result of more ornamental planting and more tasteful decoration of house yards, is spreading with enthusiasm. A community of eight families on one block of Linden avenue has taken down the line fences, substituting light iron fences, planting vines and flowers, so that a space of 80x120 feet is like one big garden, enjoyed equally by all; others are using the privet hedges, which are backed by a wire netting about three feet high, which keeps out dogs and other intruders. The spread of gardening taste, especially by the ladies, is marked and if the custom is generally adopted it will be wide-spread in its effects.

The State Horticultural Society will hold its midsummer meeting at Mountain Lake park, July 30 to August 2. This is an elevated section, a delightful place for such assemblages and convenient to the mountain fruit region, which will be visited by the members. Papers will be read and discussed, reports of officers received and a general good time enjoyed by all who attend the session.

John J. Perry, manager of the Florists' Exchange, has purchased some ground at Hamilton, one of the rapidly growing suburbs of our city, and will build a dwelling thereon.

Mrs. Egner, who has been for a year or two with E. A. Seidewitz in his Charles street store, has left his employ.

S. B.

Wholesale Flower Markets

PHILADELPHIA, July 14.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	3 00@ 6 00
" " extra	8 00@12 00
Carnations	2 00@ 3 00
Asters	1 00@ 2 00
Cattleyas	50 00@60 00
Gardenias	15@ 25
Gladiolus	6 00@10 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	75@ 1 00
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, July 14.	Per 100
Roses, Beauty, specials	10 00@15 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	1 00@ 4 00
" Chatenay	1 00@ 4 00
" Kaiserin	2 00@ 8 00
" Killarney	1 00@ 4 00
" Richmond	1 00@ 4 00
Carnations	2 00@ 3 00
Asters	1 50@ 4 00
Gladiolus	3 00@ 6 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Sweet Peas	25@ 50
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, July 14.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

Pittsburgh Cut Flower Co
(Limited)
The Wholesale Florists of Pittsburgh,
222 Oliver Ave., PITTSBURGH, PA.
Headquarters for Choice Flowers.

—CHOICE—
Carnations, Roses, Beauties,
All Seasonable Flowers.
Pittsburg Florists' Exchange
15 Diamond Sq., PITTSBURG, PA.

LENOX, MASS.—Ernest Marsh has completed his duties at the Elm Court greenhouses.

BRONXVILLE, N. Y.—A. G. Burtnett, formerly a florist here, died at his home July 5 at the age of 72.

GREEN LAKE, WASH.—A number of residents interested in beautifying the yards and gardens of the north end have suggested the holding of a dahlia and flower show by florists and gardeners. This year will be especially favorable for a large show of cactus dahlias as so many people have planted them. A great abundance of other flowers will probably be secured for exhibition and the flower show would be the means of encouraging the growing of flowers in the district. It is planned to hold the show some time in September.

DESIGNS OR CUT FLOWERS

Will be delivered for the trade in other cities by the firms below, the Leading Retailers in the cities indicated, on Wire, Phone or Mail Orders.

Kansas City, Mo.
WILLIAM L. ROCK, Flower Co.,
Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

Kansas City, Mo.
Samuel Murray
.....FLORIST.....
1017 Broaway Coates House Conservatory
Both Phones 2670 Main.
Write, Telephone or Telegraph, All orders given prompt attention.

Colorado Springs, Colo.
FRANK F. CRUMP,
Wholesale and Retail Florist.

Anderson, S. C.
THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Albany, N. Y.

Owing to the efforts of the committee appointed at the last meeting of the Albany Florists' Club the retail florists in the business section of the city and the growers have agreed to close their places of business on Saturdays during the summer at 12:30 p. m. and at 5:30 o'clock on week days.

John J. Berberick of 26 Second avenue is about to extend his store 15 feet toward the street line. The extension will give him two large show windows 8x8 feet and inside store dimensions of 18x25 feet. Mr. Berberick also contemplates building a new greenhouse 22x45 feet for spring plants and azaleas.

Among those in this vicinity who are engaged in putting up new houses is A. D. Carpenter of Cohoes, who is building a rose house 30x120 feet.

The summer lull has come.

R. D.

LANSING, MICH.—The Maplewood Violet & Nursery Co. have closed out their nursery business and will hereafter be known as the Maplewood Violet Co.

EMPORIA, KANS.—The Shanks Floral Co. after a successful year's business has recently moved into a new room which has been fitted up in the most modern style for its accommodation. At the opening, June 26, the store was crowded to the extent that it was necessary to close the doors and let the crowd pass out through a side entrance. The people here seem to know a good thing when they see it.

BAY CITY, MICH.—At the industrial parade, July 6, Boehringer Bros. had a fine floral display, surmounted by snow white doves, one driving a flock by means of pink ribbons held in her beak. This was awarded the first prize. The William Roethke Floral Co., for second prize had a beautiful bower in which sat a young woman playing a floral harp while around her were several prettily dressed little girls.

Washington, D. C. 14th & H Sts. Baltimore, Md. 1601 Eutaw Place.
Blackistone

Brooklyn, New York.
"WILSON"
3 and 5 Greene Ave. and 339 to 347 Greene Ave.
Greenhouses: Short Hills, N. J.
— Deliveries in —
NEW YORK, LONG ISLAND and NEW JERSEY.

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IN HEART OF NEW YORK CITY
Phone 2270 38th St. 1294 Broadway
Our Motto—THE GOLDEN RULE.

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MYER, FLORIST,
609-611 MADISON AVE.
Phone 5297 Plaza.

Toronto, Can.
Canada's best known and most reliable florist.
Only the Best **Dunlop's**
96 Yonge Street
We deliver anywhere in Canada and guarantee safe arrival.

Omaha, Neb.
Hess & Swoboda,
FLORISTS,
1415 Farnum St. TELEPHONES 1501 and L 1582

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The Park ....Floral Co.
J. A. VALENTINE, President.

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FLORAL DESIGNS AND FLOWERS
Best Quality on Shortest Notice
DANIELS & FISHER
Order by mail, telephone, telegraph or cable. Cable address "Daniels, Denver"

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Write, Wire or Phone Your Orders to
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1406 Olive Street,
Regular discount allowed on all orders, either Plants or Cut Flowers.
Phones Bell, Main 2306, Kinloch, Central 4981

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WASHINGTON D. C.
—
Gude's

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Geo. C. Shaffer,
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Write, Telegraph or Telephone.

New York, Boston, Philadelphia
Palmer's Take care of Ocean Steamers.
Can deliver to lake steamers Northwest and Northland.
W. J. Palmer & Son,
304 Main Street Buffalo, N. Y.

Albany, N. Y.
EYRES,
Flowers or Design Work.
Delivered in Albany and Vicinity on Telegraphic Order.
11 NORTH PEARL STREET.

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CUT FLOWERS
For Tourists and General Trade.
Wire or mail. Highest Grade Stock Only.
URIAH J. **VIRGIN,** 838 CANAL ST.

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Bertermann Bros. Co.
FLORISTS
.....241 Massachusetts Ave.

Louisville, Ky.
Established 1880.
Orders for delivery in this city and nearby points in the South solicited by
M. D. REIMERS
Successor to Chas. W. Reimers,
.....329 Fourth Avenue.

Louisville, Ky.
JACOB SCHULZ,
550 So. Fourth Avenue.

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Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

Auditorium Annex.
Mail, Telegraph or Telephone Orders Filled Promptly in Best Style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,

—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

Geo. M. Kellogg Flower and Plant Co.,

906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,

129 South Seventh St.
Telephone **247.**
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen

— FLORIST —
Special Attention to Telegraph or Telephone Orders. **Phone 1912.**

Atlanta, Ga.

Atlanta Floral Co.

41 Peachtree Street.

Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS.
25 Clinton Avenue, N.
Rochester Phone 506. Long Dis. Bell Phone 2189

A sign like this in your window will draw good business now.

Steamship Sailings.

FROM NEW YORK.

July 20.

Kaiser Wilhelm der Grosse, N. Ger. Lloyd, 10 a. m., Hoboken pier.
Potsdam, Holland-Am., 10 a. m., Pier 50, North River.

July 21.

Alice, Austro-Am., 1 p. m.
Russia, Russian-Am.
Campania, Cunard, 10 a. m., pier 54 North River.
Adriatic, White Star, 9:30 a. m., Pier 48, W. 11th St.

July 22.

Friedrich der Grosse, N. Ger. Lloyd, 10 a. m., Hoboken pier.
United States, Scandinavian-Am., 12 m.
La Bretagne, French, 10 a. m., Pier 42, North River.
Moltke, Hamburg-Am., 1 p. m., Hoboken pier.

July 23.

FROM MONTREAL.—Victoria, Allan Line, 5:30 a. m.
FROM PHILADELPHIA.—Marquette, Red Star, 10 a. m.

July 24.

Caledonia, Anchor Line, 12 m., Pier 54, North River.
St. Louis, American Line, 10 a. m., Pier 15, North River.
Vaderland, Red Star, 11 a. m., Pier 14, North River.
Arabic, White Star, 10 a. m., Pier 48, 11th St.
Amerika, Hamburg-Am., 10 a. m., Hoboken pier.
Germania, Fabre Line, Amity dock, South ferry, Brooklyn.
FROM PHILADELPHIA. — Friesland, American Line, Pier 54, Washington Ave.
FROM BOSTON.—Cymric, White Star, 3:30 p. m.
Canopic, White Star, 3 p. m.
FROM MONTREAL.—Laurentic, White Star-Dominion, at daylight.

Alexander McConnell,

571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.

TELEGRAPH Orders forwarded to any part of the United States, Canada and all principal cities in Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,

ST. PAUL.

THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

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J. W. Wolfskill,

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Telegraph Orders A Specialty. **218 W. 4th St.**

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Order your flowers for delivery in this section from the
Leading Florists of the Northwest

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Successor to Sievers and Boland.
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.

Will take proper care of your orders in **Wisconsin.**

The Seed Trade.

American Seed Trade Association.

I. C. Robinson, Waterloo, Neb., Pres.; M. H. Duryea, New York, First Vice-Pres.; F. W. Bolgiano, Washington, D. C., Second Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas.; Leonard H. Vaughan, Chicago, Asst. Sec'y. Twenty-eighth annual convention, June, 1910.

BLUE GRASS is said to be firmer and prices from cleaners $1.25 to $1.35 for 21 pounds seed.

LILIUM HARRISII has arrived in New York in liberal quantities. Freesias are due to come next week.

MINNEAPOLIS, MINN.—Miss C. H. Lippincott, the pioneer seedswoman, has removed her business to Hudson, Wis.

LOMPOC, CALIF., reports lima beans, while suffering some from backsets, are making on the whole an excellent showing.

YOKOHAMA—The Japan Nursery Co., Ltd., and the Oriental Bulb Co. have combined, retaining the name first mentioned.

BEAN CROP prospects in Michigan are reported to be excellent. Prospects never better for a fine yield, but of course it is a long way yet to harvest time.

LOUISVILLE, KY.—Very hot weather following a rainy spell has burned onion set tops and the crop will not be a good one, perhaps not over 65 per cent.

C. W. SCOTT, of Vaughan's Seed Store, New York, passed through Chicago, July 8, on his way to his old home at Grand Rapids, Wis., on a vacation trip.

VAUGHAN'S SEED STORE is taking a couple of cases of lily bulbs off the Bermuda boat this week and passing a good lot on to Chicago and a part to Europe.

HOUSTON, TEX.—A new charter has been granted to the Reichardt & Schulte Co., the only change, however being the admission to the firm of E. H. Schulte. The old style of the firm was Reichardt & Schulte.

JOHN BODGER, of Gardena, Calif., who is at present in England with his wife, writes, June 27, that he had a rough passage, Mrs. Bodger being prostrated even after she arrived in England, but is now in perfect health. He is now at Burnham in Somersetshire, his old home county, and we publish on page 1283 an interesting letter from him.

ST. JOSEPH, MO.—The stock of the Missouri Valley Seed Co. has been sold to the Neudorff Hardware Co. and the Missouri Valley Co. has sent out a notice to the effect that it will not be responsible for any bills contracted by the latter firm after July 7.

MANITOWOC, WIS.—The M. G. Madson Seed Co. is growing a large acreage of the leading varieties of asters. The planting season was favorable but the dry weather since has hindered the progress of the plants somewhat. The prospects are, however, for a good average crop.

MOST California onion growers are likely to harvest good crops, only one or two having poor prospects at this time. Undoubtedly the forthcoming crop of onion sets and marketing of the same successfully or otherwise will have a good deal to do with the prices of onion seed of the yellow flat varieties the coming winter because if sets do not realize good prices the average onion set grower cannot afford to pay any fancy price for his seed.

CHICAGO.—Onion sets promise a good crop on the north side; they could use more showers; dry weather at this time would shorten the yield but improve the quality.—Contract prices on the board of trade July 14 for grass seed were noted as follows: Prime timothy, $3.85 (nominal); white clover, $16—J. J. Budlong and some of the office force have been on a vacation fishing trip on Lake Huron near Mackinac island. L. A. Budlong is to make it this week.

Wholesale Grass Seed Dealers' Association.

The following are the officers of the Wholesale Grass Seed Dealers' Association:

Albert McCullough, president.
M. H. Duryea, vice president.
C. F. Wood, secretary and treasurer.

Directors.—Charles D. Boyles (Albert Dickinson Co.), Robt. Pommer (D. I. Bushnell & Co.), J. L. Peppard (J. G. Peppard), M. H. Duryea (Hy Nungesser & Co.), H. W. Wood (T. W. Wood & Sons), Chas. Dickinson (Albert Dickinson Co.).

Deterioration of Types of Cabbage.

A paper read by J. M. Lupton, Mattituck, N. Y., at the convention of the American Seed Trade Association, Niagara Falls, Ont., June 22.

I assume that the seedsmen's convention can possess no greater element of usefulness to the trade than that which results from a better understanding of the nature and character of the plants which seed produces. I notice by the programme that the greater part of our information on the present occasion comes from scientific men and while feeling greatly honored at being given a place among the distinguished gentlemen who are teachers, I must disclaim being a teacher myself. In fact, I entered the freshman cabbage class in 1879 and after 30 years of reasonably patient study I have not yet graduated, and worse than all, I have a strong suspicion that I never shall; it is therefore as a student and not as a teacher that I shall briefly discuss some of the peculiarities of the cabbage field.

I do not think that varieties of cabbage are peculiarly subject to deterioration; during the period of my observations several varieties of potatoes have come and gone, but the Early Jersey Wakefield cabbage has been the popular early variety during all that period in spite of every effort to supplant it. Apparently those plants which we produce by sowing the seed are much less subject to deterioration than such a plant as the potato which we produce by planting the tuber, the reason to my mind being fully found in the natural constant hybridization which occurs at the flowering period among the seed producing plants. Now this constant hybridization, not the intermingling of different varieties with one another, but the intermingling of individual plants of the same variety, appears to me both as a means of deterioration and at the same time as an essential of life in its relationship to what we call types of cabbage.

We must recognize the fact that each plant is an individual—member of a variety though it be; each plant possesses a character of its own, a constitution of its own, and, seemingly, a disposition of its own. Some are healthy and strong, some unhealthy and weak, some well disposed and perfect types of the variety, others show vicious tendencies, and the seed produced from any given plant is, of course, hybridized through nature's process by the other plants which grow in its proximity. Without constant vigilance on the part of the grower this natural mixing of individual plants in the blossoming season becomes a menace and an element of deterioration, but the remedy is extremely simple and well known: We have only to discard the vicious specimens, a matter which depends for practical results far more on the discernment and intelligence of the man behind the hoe, than upon the number of plants removed from the field. Reproduced year after year without any particular care, permitting every plant to bear all the seed it naturally will and harvesting the whole product just as it will be reproduced with the natural process of mingling good and bad together, results in a rapid deterioration of the variety as measured by gardeners' standards.

The plants become wild, produce cabbages, but not cabbage heads, the plant, while seemingly it has gained in hardiness and vigor, and, in consequence, ability to resist disease, has apparently lost in its capacity to produce the head for which it is cultivated and which gives it its value; this at least seems to be a natural tendency and might be termed natural deterioration. On the other hand, the seed breeder seeking by the most patient and painstaking effort to improve his stocks in making his selection of stock seeds, has naturally in mind a given ideal of every variety. The plants which he selects for his planting stock, which of course form the basis of his strain, are those specimens which in every particular are the nearest approach to the ideal type he has in mind. Seedsmen in particular like to see all the plants grow just alike, but the effort of itself is to a certain extent an effort to destroy the vitality and individuality of the plant, which to my mind is an essential to the life of the

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Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
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Peas AND Beans
Alfred J. Brown Seed Co.,
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GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

—FOR—
SEEDS
OF ALL KINDS APPLY TO
W. W. JOHNSON & SON, Limited,
Boston, England.

variety, and following too blindly the effort to make all grow to a given ideal is apt to result in a weakening of vitality and a lack of resistant force necessary to combat the plant's natural enemies and conditions unfavorable to its development.

Some time ago a seedsman wrote me that the year previous he had sold cabbage seed of a certain variety which had given excellent results and produced perfect crops, some of which he had seen. Carrying over some of the same seed, it was again planted, with an opposite result. Crops failed and in the view of the average planter it was an entirely different strain of seed from that which they had used the year before, though actually it was not only the same strain, but the same lot of seed. Why was this? Being familiar with the variety, I do not hesitate to say that the trouble was due to overbreeding or selection without proper regard to securing, as a first requisite, the greatest degree of hardiness and vigor in the parent stock; the grower's effort has been to make all the plants look just alike and in the effort he has weakened their constitution and natural force of resistance. Grown under favorable circumstances such a strain appears perfect, but let it be planted under adverse conditions and it cannot succeed, but easily succumbs to any disease to which the plant is subject. The effort therefore on the part of the grower to secure perfection must recognize as one of the elements of perfection a strong constitution, and any effort which fails to recognize the fact that each plant is an individual will probably end in failure.

We find therefore that while nature seems to have decreed that men may maintain the usefulness of a variety only by means of selection of parent stocks, she seems also to have ruled that such selection shall be made only in conformity with certain rules which she has established and written in the fields for close observers. In general it may be said that that color of the leaf gives a good indication of the healthfulness and vitality of the plant. I have particularly noticed that every strain bred to a point where vitality has weakened, has a smooth leaf in which a yellowish tinge has replaced the deeper shade which should indicate health and vigor. It is, I think, much easier to breed a smooth leaved variety to a given point than one which has a blistered or ruffled leaf; the tendency to variation is not so marked in the smooth leaved variety and its individuality not so strikingly shown.

Now, so far as both seed grower and seed dealer are concerned, we all have an identical interst: We all want the best seed we can possibly obtain at the lowest possible price. We do not want a strain which shows no effort at improvement, in which a natural wild growth predominates, even though that wild growth may indicate healthfulness and disease resisting power, nor do we want a type bred with so much singleness of purpose as to destroy its vitality. I fear that this convention will be unable to determine the actual limitations of men in that direction and that the actual solution of the problem in all its complexities will have to be left to a conference between the cabbage seed growers and cabbages in the fields next autumn.

O. K. Quality
BERMUDA ONION SEEDS
VARELA'S
Contract NOW for 1910 deli very. No seedsman is well equipped without my seeds.
FEDERICO C. VARELA, Grower and Exporter Teneriffe, Canary Islands.

GIANT PANSY SEED
THE KENILWORTH STRAIN
is unsurpassed; the immense flowers 3½ to 4-in. are of perfect form and substance; every tint and shade is produced in striking combination and endless variations of beautiful colors and markings: it is the result of years of selection. it embraces the largest and best of English, French, German and American novelties. 1909 seed greatly improved by rich shades ofbrown, bronze red and mahogany New seed. 1000, 25c; 2000, 40c; 6000, $1.00; ¼-oz. $1.40; ½-oz. $2.50; oz. $5.00
Rainbow is a blend of over 50 of the latest introductions of giant pansies of the most beautiful, gorgeous colors, blotched, striped, veined, margined, etc. With every $1.00 worth of Kenilworth strain I will send 1000 of Rainbow free, and with other amounts in like proportion.
Chas. Frost Kenilworth, N. J.

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Gardena, Calif.
Wholesale Growers of Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos and other Flower Seeds.

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Contract Seed Growers,
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Correspondence solicited.
Write for Prices on Surplus Stocks for Immediate Shipment.

Pansy Seed
The Best Strains for Florists' Use
Also Other Seasonable Seeds.
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Waldo Rohnert
GILROY, CAL.
Wholesale Seed Grower
Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety.
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Brown's Extra Select Superb Giant Prize Pansies.
awarded medals wherever exhibited. Flowers are of enormous size; in beauty and color they are incomparable. Giant yellow with dark eye and pure white, in separate colors. New 1909 seed of my own growing.
3,000 seeds .....$1 00 | 1 oz. .....$ 5 00
¼ oz..... 1 50 | ¼ lb..... 14 00
½ oz..... 2 50 | ½ lb..... 25 00
Cash with order. | 1 lb..... 50 00
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H. WREDE,
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PANSY SEED
175 First Prizes, the highest awards Chicago, Paris, London, Dusseldorf
1000 seeds, finest mixed.. 25c
1 oz. " " " ..$2.25
Price list on application. Cash with order.

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Growers For The Trade.
Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.
Branches: Michigan and Wisconsin.
MILFORD, CONN.

ROUTZAHN SEED CO.
Arroyo Grande, Cal.
Sweet Pea and Nasturtium Specialists
Wholesale Growers of full list of
FLOWER and GARDEN SEEDS

Telegraph Code
Am. Seed Trade Association
—$2.00—
In either stiff or flexible cover. Address orders AMERICAN FLORIST CO., CHICAGO.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary. Next meeting in Ashtabula, O., October 12, 1909.

THE annual meeting of the Greenhouse Vegetable Growers' and Market Gardeners' Association of America will be held at Ashtabula, O., October 12. Committees on programme and other matters have already been named, but the programme is not yet complete.

PLAINFIELD, CONN.—The severe drought is destroying corn and potatoes, causing apples to fall from the trees, drying up millstreams and pasture brooks. Oats are rusting badly and smaller vegetables are damaged greatly. All kinds of insects that thrive in hot weather are destroying foliage of fruit and shade trees.

Mulching.

One of the greatest aids to success is mulching. If we had plenty of material always at hand this would receive more attention. It is the scarcity of proper material at the right moment that has caused cultivators to depend mostly upon loosening up of the topsoil instead of mulching. The purpose is the same in either case. To apply a mulch may take more time than to loosen the soil, but a mulch properly applied will do for a season, while the cultivating process must be repeated again and again. There are a few other points to consider, fertility and cleanliness. A mulch generally will add plant food; also with many crops a mulch means a clean product. This latter point is of great importance with tomatoes. In localities exposed to high winds, vines such as cucumbers, melons and squashes are often badly damaged by being rolled into bunches. This can be entirely prevented by applying a coarse mulch just as the vines begin to run—the tendrils will cling to every straw and stick and securely hold the plant in place.

We have practiced a system of mulching that is quite a success. Land intended for early crops is completely prepared in the fall, and in the course of the winter covered heavily with coarse manure. Just as soon as we can in the spring this manure is raked into windrows, say 16 feet apart. The land is planted at once without plowing, and we generally find it in excellent condition. The windrows make excellent paths for the men to go back and forth to work or gather crops and when the early things are out of the way we have the mulching material at hand for the succession crop.

MARKETMAN.

Potato Drying in Germany.

Vice-Consul James L. A. Burrell, of Madgeburg, states that in order to cope with the overproduction of potatoes in Germany several potato-drying plants are operating in various sections. Such factories are increasing, due partly to the advancing prices of grain. To produce 1100 kilos or 220 pounds of dried potatoes 830 pounds of tubers are required, and the product is worth $3.80 to $4.30.

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions, Peas, Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums, **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas, Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz, postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name, of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

New Spawn Both Grades Now in Store.

Vaughan's English Spawn	25 lbs.	$ 2.00
	100 lbs.	6 50
Garden City Pure Culture Spawn	25 bricks	3.75
	100 bricks	12 00

VAUGHAN'S SEED STORE,

CHICAGO: 84-86 Randolph St. NEW YORK: 25 Barclay St.

Early Cauliflowers.

One of the most delicately flavored of all the brassicas is the first early cauliflower of the season. Very frequently no such delicacy is seen until the end of June, and occasionally even July is reached before heads are sufficiently large for use, says the Gardeners' Magazine. The cauliflower has always been looked upon as a superior vegetable, and more especially so if it could be had before peas, early outdoor carrots, turnips, etc. For the past 12 years, whatever the climatic conditions may have been, we have always had a few cauliflowers from the open during the last week in May, and, commercially, have always had excellent returns all through June as the heads matured.

It is quite true, as so often stated, that good cauliflowers cannot be produced upon very poor soil, for unless growth is free during the early stages, with many of the smaller early selections premature hearting takes place, therefore it always pays to give a little extra attention in the matter of raising the plants and hardening them before planting in the open during early April. We have tried a good many varieties for early use, such as Snowball, Dwarf Erfurt, First Crop, French Frame, Early London, Magnum Bonum and others, and we have sowed seeds in every month from September to February, and have had the best results from mid-November sowings. Pans of ordinary soil from the garden answer well for sowing the seed in at that season, and quite cool treatment is essential. When the seedlings are making their first true leaf is a good time to prick them off into boxes, or cold frames, or to pot singly into 3-inch pots.

For a good crop of white, solid-hearted cauliflowers of either private or commercial value, we cannot find anything that equals Magnum Bonum, and always grow large quantities of it. The smaller First Crop section is more suited for the earliest use, and to have them good they must, in their early stages of growth, have nitrogenous stimulants in some form to encourage leaf growth, which is very scant in these small forms.

THIS SEASON'S FRESH

MUSHROOM SPAWN

which is now being supplied by

JOHNSON'S, LIMITED,

(The actual makers.)

IS IN SPLENDID CONDITION.

All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.

Correspondence invited for **OVER-SEA ORDERS**

Special quotations for large quantities. Prices and particulars on application to

JOHNSON'S, Limited,

44 Bedford Row, LONDON, ENGLAND.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10,000 and over	85
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 00
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	2 00
Chinese Giant and Cayenne ....50c per 100	
Parsley,	1 25

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. 29 Illustrations.

—Price $1.00.—

AMERICAN FLORIST CO.

324 Dearborn St., CHICAGO.

ASTER PLANTS

Semple's, Vick's and **Queen of the Market,** fine plants, grown from the best seed, three colors: $2.50 per 1000: $10.00 per 5000.

GERANIUMS, 4-in., in bloom, $4 00 per 100: 2½-in., $1.50 per 100: best varieties.

CABBAGE PLANTS, all kinds, from the field, $1 00 per 1000: 5000 for $4.00.

CAULIFLOWER, and **PEPPERS,** $2.50 per $1000.

TOMATOES, all kinds, $1. per 1000.

J. C. SCHMIDT, Bristol, Pa

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick, with illustrated book, mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

Trade Mark. **American Spawn Co., St. Paul, Minn**

Lilium Harrisii, Now Ready for Delivery :: ::

Our first consignments have just reached us, and we are now filling early orders. **Easter comes very early next year, March 27th,** and a good many growers will have difficulty in getting Japan Longiflorum in flower in time, and there will be an extra demand for Harrisii in consequence.

In view of the fact that **crop is short,** we advise those who have not already placed order to lose no time doing so. Last year we were not able to meet the demand for our selected Harrisii on late orders, so we urge customers to order without delay. At present we have a good supply still to offer, and will be able to take care of early orders, but there should be no delay in ordering, as there is sure to be a scarcity of good stock, especially in the large sizes.

We offer a selected stock of the original true Harrisii for early forcing. These bulbs have been grown from the original pure Harrisii, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. We have had the stock inspected, and are assured that it is almost absolutely pure and almost entirely free from disease. It is not stock picked up indiscriminately from different sources, but is grown from one stock, and will be found very superior to the ordinary Harrisii usually offered, both in regard to purity and freedom from disease, and not the late type now so often furnished.

6- 7-in. bulbs, 350 to the case.....$ 6.00 per 100; $ 55.00 per 1000
7- 9-in. bulbs, 200 to the case..... 9.00 per 100; 85.00 per 1000
9-11-in. bulbs, 100 to the case..... 20.00 per 100; 180.00 per 1000

Full case lots at thousand rate.

Large Specimen Hydrangeas

In tubs and half-barrels. For July and August flowering.

We make a specialty of these plants, and have a grand lot in the finest possible condition. Our plants have never been so well budded as they are this season; flowers are just beginning to show color. Extra fine plants in tubs, $3.00 each; very large specimens in half barrels, $5.00 and $7.50 each.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

A Californian in England.

ED. AMERICAN FLORIST:—

Since arriving here we have run around so much that I had no time to write before but we are now at Burnham where my wife is resting up and regaining strength after a very rough passage. We landed in Liverpool Whitsunday, went by special train to London and from there to Croydon. The season is extremely late here and very cold with rain and hail. Have to wear an overcoat every day, especially here by the seaside. Bedding out is very late and only just finished. Two weeks ago it was at its height near London. We arrived in good time to see the spring flowering trees and shrubs. In the country all the hedges were ablaze with the white hawthorn and the shrubberies with the double pink variety, laburnum, rhododendrons, etc. The latter at Kew Gardens, Crystal Palace and all large estates were grand. At Kew I noticed Hydrangea dentilla, a large white tinted pink species, deeply serrated, with the pips or individual flowers about two and one-half inches in diameter. This is the finest thing I have ever seen in hydrangeas. Another, H. hortensis Mariesi, was large with pink flowers over two inches in diameter, a native of Japan. Another very large variety, unnamed, was of the same size, with bluish purple flowers (not the old blue variety). Perhaps these are not new to you but they are quite new to me, the finest I have ever seen. There was a very fine saxifrage in one of the greenhouses, S. sarmentosa tricolor, from Japan and China; as its name implies, it is three colored, and very pretty for edging or hanging baskets.

The sweet peas are now beginning to flower. I want to rush our journey up through the north and return in time to be at the trial grounds of the Sweet Pea Society at Reading when they are in full bloom before the show, and will write you afterwards. We went to Wells last Tuesday and saw the prince and princess of Wales, who were assisting in the ceremonies of the cathedral, handing over to the Church of England the ruins of the old abbey at Glastonbury. It has been owned for several centuries by private people. I hear from home that you have been getting it hot but we have had no warm weather here and will be pleased to get a warm-up for we are shivering with the cold.

June 27. JOHN BODGER.

Single Spray Asparagus Plumosus Nanus.

Asparagus Seeds

ASPARAGUS PLUMOSUS NANUS.

Northern greenhouse grown seed, per 100 seeds, 50c; 250 seeds, $1.00; 1000 seeds, $3.50; 5000 seeds, $16.25.

ASPARAGUS SPRENGERI,

100 seeds, 15c; 250 seeds, 25c; 1000 seeds, 75c; 5000 seeds, $3.25.

VAUGHAN'S SEED STORE,
NEW YORK. CHICAGO.

Greenhouses, Trial Grounds and Nursery, Western Springs, Ill.

Notice.

Those who received our summer circular during this past week we would like to call their attention to **Yellow Primroses,** and also the fact that we have a fine lot of 2½, 3, 4 and 5-in. **Rex Begonias** for Sept. and Aug. delivery. Write us your wants in this line. We can give you a fine lot of **Poinsettias.** Ask for our summer circular.

Don't forget that we are headquarters for **Boston, Whitmani** and other **Ferns.**

GEO. A. KUHL, Pekin, Ill.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants, leaf cuttings, $15.00 per 100; $140 00 per 1000.

POINSETTIAS.

2½-in.....$5.00 per 100; $45.00 per 1000

CYCLAMEN.

4-in.....$15.00 per 100 5-in.....$25 00 per 100

PANSY SEED.

S. & I. Giant, mixed .....¼ oz., $1.25; oz., $5.00

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

Mention the American Florist when writing

Small Ferns

We will have a large quantity of Small Ferns for fall shipment.

Get your orders in early.

ERNEST OECHSLIN,
180 Madison St., RIVER FOREST, ILL.

The Nursery Trade

American Association of Nurserymen.

C. J. Brown, Rochester, N. Y., President; C. M. Hobbs Bridgeport, Ind., Vice-President; Geo. C. Seagar Rochester, N. Y. Sec'y. Thirty fifth annual convention to be held at St. Louis or Denver June 1910.

TWO promising new climbing roses are described and illustrated elsewhere in this issue.

FOR Ligustrum citrata in John Dunbar's notes on "Trees and Shrubs at Rochester" in the issue of July 10 read L. ciliata.

NAPA, CALIF.—Frederick N. Kahler, a prominent nurseryman, died here June 30 after a week's illness that so baffled the physician that a post mortem examination was held.

JERSEY CITY, N. J.—The exercises for the dedication of the Zabriskie playground with the formation of which John T. Withers has been closely identified, passed very successfully and this great gift of Cornelius Zabriskie is now open to the children. About 3,000 persons were present.

THE new 1909 Texas state law relating to the sale of nursery products, puts both a fine—not less than $100—and prison penalty not less than 30 days on any nurseryman, agent or stockholder in a nursery corporation, who shall knowingly make false representations of the name, quality or nature of any nursery product.

FRED L. ATKINS, of Bobbink & Atkins, Rutherford, N. J., his wife and a party of friends riding in their automobile, were run down by a party of speeders in Hackensack, N. J., July 11. Mr. and Mrs. Atkins and Mrs. Herrick, a member of their party, were thrown out of their car and Mrs. Herrick's collar bone was broken. Mr. and Mrs. Atkins though bruised, are not believed to be seriously hurt.

THE Georgia State Horticultural Society will hold its thirty-third annual session and exhibition of fruits, plants and vegetables in the auditorium of the Hotel Georgian, Athens, August 4-5, commencing at 10 a. m. each day. L. A. Berckmans, Augusta, is treasurer, J. B. Wight, secretary, and all particulars as to hotel rates and other matters can be obtained of them. The city and chamber of commerce are giving a barbecue and trolley ride and other courtesies are promised, besides the excellent programme of papers and essays to be read.

Wisconsin Inspection Laws.

ED. AMERICAN FLORIST:—

We are enclosing a copy of the nursery and orchard inspection law recently passed. You will note that one of the important changes is that all nurseries outside of the state doing business in this state must apply for a license at the cost of $10, at the same time submitting the proper credentials of an official nursery inspection. In addition to this, agents canvassing this state must obtain a duplicate copy of this license from this office at the cost of $1 each.

A. J. ROGERS, JR.

University of Wisconsin, Madison.

Trees and Shrubs at Rochester, N. Y.

The whin (Ulex Europæa) has a few late scattered flowers. We have to fuss with the whin quite a little to carry it through the winter. The dwarf whin-like shrub, Genista Hispanica, passed out of bloom about June 17. The small clusters of yellow flowers are quite attractive. On a dry, well drained soil, on a southern exposure, this is quite hardy here. The dyer's broom (G. tinctoria) is now coming in flower. The salt-tree (Halimodendron argenteum), with rosy purplish blossoms, was in bloom June 24. The American wistaria (W. speciosa), with lilac-purple flowers, is now in full bloom. The bastard indigo (Amorpha fruticosa), with its spikes of bluish purple flowers, was in full bloom June 25, and A. Tennesseensis, with very similar flowers, was past its best in bloom at the same date. The former has usually leaves with 9-17 leaflets, and the latter 17-27. In other respects they look much alike.

Berberis angulosa, from the Himalayas, with five to seven yellow flowered terminal clusters and the blossoms about one-half inch in diameter, came in flower June 22. This is the first time it has flowered here, as it requires much winter protection. The smoke tree (Rhus cotinus) is now producing its smoky looking clusters which have a highly ornamental and plumose appearance for a long time. R. cotinoides was in full bloom June 25, and has flowers similar to the former, but does not produce nearly as good an effect.

A number of species of rose are now in bloom; amongst some of them are R. ferruginea, with small pinkish red flowers; R. scabrata, with large blush pink blossoms; R. macrantha, with large showy pale pink flowers and prominent yellow anthers. R. Virginiana (blanda), with flowers from pink to blush white and which has been in bloom for two weeks. R. nitida, with flowers deep pinkish red and deep green leaves. R. multiflora, with its showy white racemes, is highly ornamental. R. arvensis, with creeping stems and handsome white flowers two inches across, is now in full bloom. R. humilis and R. lucida, with its pure white variety, are now coming in bloom. R. Arnoldiana, a garden hybrid with very showy bright crimson flowers, has been in bloom for a week.

Andrachne phyllanthoides, a euphorbiaceous shrub, with small inconspicuous greenish yellow flowers, was in full bloom June 24. Enonymus Sieboldianus, E. Hamiltonianus, E. alatus, E. verrucosus, E. augustifolus, E. latifolus and E. radicans, were in varying stages of bloom June 20, and the flowers of all of them are more or less inconspicuous. Helwingia Japonica is a low growing shrub from Japan, and the strange inconspicuous small flowers might be described as morphological curiosities. The flowers are produced off the midribs on the upper sides of the leaves, and are certainly very interesting flowering phenomena.

JOHN DUNBAR.

Nitrate of Soda for Roses.

ED. AMERICAN FLORIST:—

I am looking for information respecting the use of nitrate of soda on roses outdoors and shall be glad of any help you can give me along this line. K.

Seattle, Wash.

Nitrate of soda is by no means a perfect manure for roses, though there are times when it may be useful. When the soil is in good condition from a manurial standpoint the effect of the nitrate is to hasten the action of other manures—to "draw" the soil, as it is termed by growers. It is more of a stimulant than a food and if used to any extent on roses or other crops growing on poor soil would have the effect eventually of making the soil still poorer unless other manures were applied containing potash and phosphates. For instance if roses are from some cause or another not making good progress the application of about eight ounces of nitrate of soda to the square yard in three applications, watered in, would stimulate the growth. But this would have to be followed by a mulch of good manure or waterings with liquid manure. Soils well enriched with cow manure

EUONYMUS SIEBOLDIANUS AT HIGHLAND PARK, ROCHESTER, N. Y.

are the best for roses and heavy soils are better than light, while the principal use of the nitrate on such soils, beyond a slight manurial value, will be to stimulate or hasten the growth. It is not by any means a perfect plant food, especially for plants of a woody texture. It is a fine stimulant for soft and watery crops like cabbages or turnips. G.

Chionanthus Retusus.

It is curious that more fine examples of this ornamental shrub are not met with, considering that it was described by Lindley and Paxton in their "Flower Garden," vol. iii, p. 85, Fig. 273, in 1852, and that some considerable attention was directed to its merits about that time. It is closely allied to the North American fringe tree (C. Virginica), and is one of the many beautiful Chinese shrubs that owe their introduction to the travels of Robert Fortune. This particular shrub was found by him in a garden in the neighborhood of Foochow, and he sent it home to Standish & Noble, who were responsible for its introduction to commerce in England about 1850.

Fortune did not find it in a wild state, and he surmised that it had either been introduced to the place where he discovered it from a more northern part of the empire, or from Japan. Later collectors have, however, found it wild in both countries. It is a strong-growing bush, with large, more or less ovate, or obovate, hairy, deciduous leaves, and snow-white, fragrant flowers, which appear during the latter part of May and early June, in slender, terminal panicles. It is not an easy plant to propagate, except by means of seeds, though it will root from layers. It has also been increased by grafting on to allied genera, such as olea and ligustrum. Ordinary loamy soil suits it, and when once established it grows fairly rapidly. It has also been known under the name of C. Chinensis, a name given by Maximowicz.—Gardeners' Magazine.

What is Cutch.

"The other day down there at Washington, where the solons are wrestling with the tariff," remarked a man who wrestles with it in the cost of living, "somebody mentioned 'cutch' as an item that should have its share of the expenses to pay. Maybe it would have got by unnoticed as other items have, but the word had a funny sound and the newspaper squibbers took hold of it and began to cutch from one end of the press works to the other till everybody had heard of cutch, though most of them didn't know what it was. Neither did I, and thinking it might be something to eat and I might get it cheaper than other breakfast foods I was paying tariff on, I looked it up. It belonged to the vegetable kingdom all right, but it was not an edible.

"It is made from the bark of mangrove trees growing in Borneo and in India and is used in tanning leather, also for dyeing textile fabrics black or brown. The bark is subjected to treatment which extracts the tanning in the form of cutch, a hard, brittle brown substance with a shining surface like anthracite coal or lignite. In India the whole tree is chopped into bits and boiled down into a sort of cutch tar. After this has cooled in moulds it is made into hard balls, wrapped in leaves and shipped.

"In Borneo the wood of the tree is saved for fuel, much of it being shipped to Hong Kong and used in steam making, it having about 65 per cent of the heating properties of Welsh coal. There are thousands of acres of mangrove swamps in North Borneo, and when our oak and hemlock are gone we will begin to know a good deal more about cutch than we do now. At least we will know that it is not a breakfast food and we will also know that it will stay on the tariff list as long as there is any cutch competition in this glorious land of freedom."—New York Herald.

100,000 PEONIES For Fall Delivery

All of the Leading Varieties from the COTTAGE GARDENS' FAMOUS COLLECTION.

Our enormous stock enables us to send out tubers of the very highest quality, and in filling orders we use undivided roots only—assuring an abundance of flowers the first season. This year we offer 1, 2 and 3-year plants.

Wholesale List Now Ready. Send for a Copy.

COTTAGE GARDENS COMPANY, Inc.
Queens, Long Island, N. Y.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,
AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. Clematis And all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists Rutherford, N. J.

ARBOR VITÆ
(Thuya Occidentalis.)
A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees.
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

THE
Storrs & Harrison Co.
PAINESVILLE NURSERIES.
CATALOGUES AND PRICE LISTS FREE ON APPLICATION.....
PAINESVILLE, OHIO.

LARGE TREES.
OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

Jacs Smits, Ltd., NAARDEN (Holland.)
Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Pot-grown plants, (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,
Price List Free on Demand.

Fifteen acres devoted exclusively to
PEONIES
Our 16th year. Prices right. Write for list today.
GILBERT H. WILD,
Wholesale Peony Grower. Sarcoxie, Mo.

BAY TREES
(LAURUS NOBILIS.)

A carload of fine, shapely, compact trees in the following sizes:
Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap we will allow 10 per cent discount.

Standard Stem, about	or Tree Shaped. Crown	Each
25 to 27 inch	20 to 22 inches.....	4 50
44 to 47 inch.	20 to 22 inches.....	6 00

All Plants F. O. B. Western Springs, Ill.

Pyramidal Shaped
5 feet high, 20 to 22-in. diameter at base....$ 7 50

Select Compact Specimens.

Box Trees

Pyramidal Shaped
Height. 5-ft.....Each $ 7 00 Pair $13 00

Standard or Tree Shaped

Stem.	Crown.	Each.	Pair.
22-24 in.	22-24 in	$4 50	$ 8 00
18-22 in.	30-32 in	5 50	10 00
22-24 in.	32-34 in	7 00	12 50

Prices include trees planted in green tubs. If wanted out of tubs roots done up in burlap, we will allow 10 per cent discount.

Vaughan's Seed Store,
CHICAGO. NEW YORK.

Always mention The American Florist when you order stock.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN
WELL ESTABLISHED Plants

Kentia Belmoreana

		Each	doz.
6-in. pot, 6 to 7 leaves,	22 to 24 in. high	$ 1 00	$12 00
6-in. " " "	24 to 26 in. "	1 25	15 00
6-in. " " "	26 to 28 in. "	1 50	18 00
9-in. tub, " "	42 to 48 in. "	5 00	
9-in. "	48 to 54 in. "	6 00	

Kentia Forsteriana

		Each	Per doz.
6-in. pot, 5 to 6 leaves,	28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves,	30 to 32 in. "	1 25	15 00
6-in. " 6 leaves,	34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high.....$ 4 00 each

Joseph Heacock Co., Wyncote, Pa.

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

Shot With a Weed Puller.

Mrs. Mary Gibbons, 3803 West Sixty-second place, Chicago, has been arrested on charges preferred by Martin MacVeagh, a mail carrier, who said she threatened to shoot him with a revolver. It was shown in court that the revolver was a weed puller.

At New York.

The annual outing of the employes of Vaughan's Seed Store and their friends will take place at Bamberger's Park, Eltingville, Staten Island, on Saturday, August 7. Dancing, bowling, baseball and other games and amusements will be the features and a general good time is expected.

The third annual outing of the New York Cut Flower Exchange will be held on Saturday, July 31, at Witzel's Point View Grove.

At St. Louis.

Everything is announced as ready for the picnic on July 21; enough ads have been procured in the programme to pay all expenses. The ball game between the Bentzen team and the Young team is expected to be a great affair. Young's team expect a walk over, and are giving odds on the result.

Primroses

	Per 100
Chinese and **Forbesi,** ready July 26	$2.00
Ob. Grandiflora, Alba and Rosea	2.00
" " Gigantea and Kermesina	3.00
Smilax	1.00

Asparagus

	Per 100
Plumosus, July 10	$2.00
Sprengeri, ready Aug. 1	2.00

Pansy Seed

Giant flowering, new crop, per oz., 4.00

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

GERANIUMS..

$1.00 per 100; $10.00 per 1000.
Summer prices, good until Oct. 15th.
Varieties: Nutt, Ricard, Poitevine.
Winter prices on request
Orders booked for any date.

ALBERT M. HERR, **Lancaster, Pa.**

SMILAX and SPRENGERI

From small pots. Specially grown.
Samples sent on request.
$1.50 per 100; $15.00 per 1000.

One bet of 2 to 1 was made by a very enthusiastic follower of the Young team that they would make more runs in one inning than the Bentzen team would make in nine. W. F.

At Chicago.

The bowling at Bensinger's last Friday evening resolved itself into a match game between the five high average men captained by George Asmus and the next five with Ed. Winterson at their head who received a handicap of 50 pins the first game, 75 pins the second and 100 pins in the third. The prospective convention pin artists cleaned up two out of three, and also increased their lead in the averages which are as follows: J. Zech, 179 13/15; A. Zech, 170 12/18; V. Bergman, 169 12/18; G. Asmus, 167; T. C. Yarnall, 152 5/18; W. Graff, 152; E. Winterson, 149 8/9; W. Wolf, 148 7/9; F. Ayres, 148 9/18; F. Pasternik, 146 8/18. The score:

A. Zech	144	183	163
G. Asmus	159	148	133
T. C. Yarnall	189	122	198
V. Bergman	243	176	152
J. Zech	212	154	189
Total	947	783	835
W. Wolf	122	117	166
F. Ayres	119	137	135
F. Pasternik	169	112	140
W. Graff	136	133	147
E. Winterson	146	138	167
Total	692	637	755

THE FLORISTS' PICNIC.

On Thursday next or, to be explicit, on July 22, the Florists' club give its annual picnic. Getting away from the precedent of former years the picnic

Kentias, Arecas, Asparagus.

Kentia Belmoreana.

The above cut shows the plant in 8-in. pot, at $6.00 each.

Kentia Belmoreana

The following lis of **Kentias** shows an exceptionally fine lot of perfect plants, sure to give satisfaction:

3-in. pot. 4 leaves, height 10-12.....$2 00 per doz.

					Each
4-in.	" 4-5	"	"	14-16	$0 35
5 in.	" 5-6	"	"	18-22	75
6-in.	" 5-6	"	"	20-24 ....$1 00 to	1 25
6-in.	" 5-6	"	"	24-28	1 50
7-in.	" 6-7	"	"	24-30	2 50
8-in.	" 7-9	"	"	36-42	6 00

Areca Lutescens

We have an exceptionally fine lot of **Areca Lutescens.**

Size pot	Each	Doz.
3-in		$ 2 00
4-in	$0 25	3 00
5-in	50	5 00
6-in	75	9 00
7-in	2 00	24 00
8-in	3 00	36 00
10-in	5 00	60 00

Also an exceptionally choice lot of

Asparagus Plumosus

in 2, 3 and 4-in. pots that is sure to give entire satisfaction.

	Doz.	100
2-inch pots	$ .50	$ 3.00
3-inch pots	.75	6 00
4-inch pots	1.50	12.00

Areca Lutescens.

The above cut shows one of our largest sizes in 10 in. pot, at $5.00 each.

We can recommend the above as good values, and will say they are fine, perfect made-up plants, thoroughly established and are sure to give satisfaction.

Get your name on our mailing list by sending for our catalogue.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago.

will be held as far away from a greenhouse as it is possible to get as on this day everyone wants to forget that such a thing as a flower, from a commercial standpoint, exists.

The committees in charge of the events have worked hard and faithfully to make this picnic one to be remembered and the outlook now is that there will be the largest crowd that has ever attended one of these events. The selection of Riverview picnic grove was an especially happy one as the grove contains a baseball diamond, grandstand and running track and the river close by with boats at the disposal of the picnickers. Tiring of the grove the tickets of admission open the gates of Riverview park to all who care to avail themselves of the legion of amusement features which it contains. It will therefore be seen that there will be absolutely no chance for ennui (whatever that is) to mar the festivities. The rival baseball teams will line up as follows:

Wholesalers.		Retailers.
Tribble	right field	Pasternik
Lazaroff	center field	Enders
Farley	left field	Wolf
Heidleberg	third base	Kreitling
Goerisch	shortstop	Graff
Straus	second base	Lieberman
Lorman	first base	Eberling
Keefe	catcher	Eischen
A. Zech	pitcher	Wieczorowski

List of Events.

Base ball, 2:30 p. m., sharp, Wholesalers vs. Retailers.

Guessing Contest—How many seeds in the watermelon?

Races.

Girls under six years of age.
Boys under six years of age.
Girls under 12 years of age.
Boys under 12 years of age.
Girls under 16 years of age.
Boys under 16 years of age.
Young ladies.
Fat men.
Sack race.
100 yard dash—Free for all.
Pie-eating contest.

Seasonable Stock

	Per 100	Per 1000
Primula Obconica, Ronsdorf hybrid, 2½-in	$3 00	$25 00
Chinese Primroses, very best English and French strains, 2½-in	3 00	25 00
Poinsettias. fine stock 2½-in	5 00	
Potted Chrysanthemums, best varieties for pot culture Pompon, Large Flowering, Single and Anemone flowers, 4½-in. pots	8 00	
Ferns for Dishes, assorted varieties, 2¼-in. pots	3 00	25 00
Christmas Peppers, 2-in	2 50	
" " 3½-in	5 00	

Cash with order.

FRANK OECHSLIN
2572 W. Adams St., CHICHGO.

Neph. Whitmani

2¼-inch......................$ 5.00 per 100
3½-inch...................... 25.00 per 100

Boston Ferns 2¼-inch, $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Charles H. Totty

MADISON, NEW JERSEY,

Wholesale Florist

Chrysanthemum Novelties my specialty.

ROBERT CRAIG CO.

HIGH CLASS PALMS

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

Surplus Stock

	Per 100
Roses, Summer Propagated, from 2-in. pots: Seven Sisters, No. Lights, Mme. F. Kruger, Golden Gate, Mignonette, Mme. Cecil Brunner, Mary Washington, Caroline Marniesse, Coquette de Lyon, Pink Baby, Souv. de Gaulain, B. Berg, Queen Scarlet Manda's Triumph Champion World and Pink Rambler	$1 25
25 at 100 rates.	
H. Meynedier, B. Berg, Mme. Jos. Swartz, H. M. Stanley, Souv de Gaulain, White Souvert Coquette de Lyon, from 3 in. pots.	2 25
25 at 100 rates.	
Hardy Roses, Magna Charta Pius IX, Mme. Chas. Wood, U. Brunner, from 5-in. pots..	4 50
10 at 100 rates.	
Mixed Tea Roses, 40 varieties, in 2-in	1 00
Geraniums, 2-in., John A Doyle, La Favorite.	1 50
Mixed Geraniums, about 30 varieties	1 00
Cuphea, 2-in	1 00
Paris Daisy, 2-in	1 00
Coleus, 2½-in., 10 varieties, 6 to 8 in	75
Heliotrope, blue and white, 2-in	1 00
Ageratum, blue and white, 2-in	75
German Ivy and **Var. English Ivy**	1 25
Smilax, 1¾-in	75
Begonias, 4 varieties, 2-in	1 25
Fuchsias, all from 2-in pots, about 6-in. high, ready for larger size pot, Elm City, Gloria de Marchi, Avalanche, Dolly Varden, Arabella, Beauty of Exeter, Black Prince	1 00
Same varieties, in 3-in. pots	2 00
Weeping Lantanas, 2-in	1 00
" " 3-in	2 00
Hibiscus, 5 varieties, 2-in	1 00
Shasta Daisy (California), 1¾-in	50
Cyclamen, 2-in	2 00
Carnations, Harlowarden, Victory and Prosperity	1 50
American Wonder Lemon, 6-in	8 00
10 at 100 rates.	
Cannas, in 3-in., 10 to 12 in. high, Robusta, Egandale, Black Beauty	2 00
Hardy Phlox, 8 varieties, 2-in	1 00
Grevillea Robusta, 2-in	75
Pilea or **Artillery Plant,** 2-in	1 25
" " " " 3-in	2 00
Abutilons, 5 vars., 2-in...$1 00 per 100; 3-in.,	1 50
Asp. Sprengeri, 3-in...... 2 50 per 100; 4-in.,	3 50
Cyperus, 2-in. .... 1 00 per 100; 3-in.,	1 50
Giant Pascal Celery, in 1¾-in. pots	50

JOHNSTON & MELLINGER, Calla, Ohio

ROSE PLANTS. CLEARING OUT SALE.

Best Stock. Lowest Prices.

From 2½-inch Pots	100	1000	From 2½-in. Pots	100	1000
American Beauty	$ 4 00	$ 35 00	My Maryland	$5 00	$40 00
Richmond	2 50	20 00	Chatenay	3 00	25 00

ASPARAGUS SPRENGERI

2½-in. pot plants.....$2 00 per 100

PETER REINBERG, 1,800,000 Feet of Modern Glass **35 Randolph Street,** Chicago

EXTRA FINE, FIELD-GROWN

Carnation Plants

Free from disease. I doubt if there is another grower who has carnation plants to equal these. Following is the list ready for immediate shipment:

Enchantress. Rose Pink Enchantress, White Enchantress, Bountiful, White Lawson. Pink Lawson, Victory, Harlowarden, Patten. Perfection.

Price, $6.00 per 100. Cash with order.

HOWARD P. KLEINHANS, Easton, Pa.

Sidelights.

There was nothing particular about him, except his sterling honesty, that would indicate the "captain of industry," but he had an engaging smile and a smooth and convincing way of talking and he SAID he was honest and would pay his bills, and besides he only wanted about $50 worth of flowers—and he got them—not only from one house but from many. And then he got more, and MORE, and MORE. And pretty soon he was a regular customer. After many days the market wanted its money. He settled for 10 cents on the dollar. After many days he appeared again, and because of his honesty in settling at 10 per cent he secured a nice line of credit, opened up on the south side and undersold his competitors, because his stock did not cost him very much and every thing he took in was velvet. His next appearance is awaited with interest. He should arrive in a touring car.

* * *

This is the story of the wise grower who was on to their little game and would sell them only for cash. They got into everybody good and strong—so strong that some of the producers were afraid to quit, afraid should they put on the brakes that they would realize nothing; and the bills ran up into the thousands. They tried to get on the wise grower's books but there was nothing doing. He smiled while his foolish brethren sweat blood. And then happened the miracle. Somebody died and left them a few hundred thousand. They settled with everyone in full and the wise grower cannot sell them even a split carnation. The moral of this story is that you can never tell.

ROME, N. Y.—The Elm street greenhouses built by Edward J. Byam, and conducted by him the last eight years, have been leased by Mr. Byam to Edward H. Kipp and Wm. H. Edwards of Ossining for a term of five years. Mr. Kipp has been in the employ of the F. R. Pierson Co. and Mr. Edwards is the teller of the Ossining national bank. Mr. Kipp has resigned his position and arrived here July 1 and took possession of the business.

Mary Tolman

A new light salmon pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.

A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

A. C. BROWN, Springfield, Ill. **CHICAGO CARNATION CO.** Joliet, Ill.

A New Seedling Carnation :: :: :: Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

Chrysanthemums

We have the following ready for immediate delivery, from 2¼-in. pots. $2 50 per 100; $20.00 per 1000.

Robert Halliday, Roserie, Early Snow, Crocus, J. K. Shaw, White Bonnaffon, Maud Dean, Monrovia, Golden Glow, Pacific Supreme, Major Bonnaffon, A. J. Balfour, Polly Rose.

ELMER D. SMITH & CO. Adrian, Mich.

'MUMS, From 2 and 3-inch Pots.

Touset, Dr. Enguehard Pacific, Estelle, pink and white; yellow and white Jones, Duckham, Pompons Mrs. Beu and Diana. About 5000 in lot. Cheap to close them out.

2c each. Cash with order.

MRS. A. M. SCHAFER, 229 Balmoral Ave., Chicago.

SPECIALTIES.

ROSES, from 3-inch pots. **CHRYSANTHEMUMS. CARNATIONS**, for fall delivery. **SMILAX. VIOLETS. IN BEST VARIETIES.**

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Roses == Sold

Except H. P's, H. Cl's, Mosses, and M. Niel. New crops coming along finely.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

Now Ready. Now Ready.

Bargains in the **BEST**

New Midseason and Late 'Mums

Plenty of the grand new **Golden Eagle,** best yellow, and of **Poehlmann,** grandest midseason white, and of the prize-winning **Lynwood Hall,** new white of last year. These you cannot find the equal of in yellows and whites for main crop. 2½-in pots, $4.00 per 100, $35.00 per 1000; R. C., $3.00 per 100, $25.00 per 1000.

Also all late **Standards,** except Chadwicks, at $20.00 per 1000 for 2½ and $15 00 for R. C.

Any of the following surplus **BEDDING STOCK,** out of 2½'s and 3's, for $1.50 per 100 assorted, if wanted: French and African Marigolds, (Tagetes) Helianthus Cuc., Ice Pinks, German Ivies, Lobelias, Coleus asstd., yellow Alternantheras, Thunbergias, etc.

Cannas, 4-inch, 4c.

I. M. RAYNER, Greenport, N. Y.

Mention the American Florist when writing

Chrysanthemums.

To Close Out for Bench Room.

	Per 100		Per 100
Oct. Frost	$1 00	Col. Appleton	1 00
J. Nonin	1 00	Y. Bonnaffon	1 00
Touset	1 00	Intensity	1 00
W. Bonnaffon	1 00	M. Dean	1 00

POMPONS

	Per 100		Per 100
Mrs. Beu	$2 50	Diana	2 00
Garza	2 00	Antonio	2 00

N. C. MOORE & CO., Morton Grove, Ill.

GRAFTED ROSE PLANTS

Choice stock ready to plant in the benches.
2,000 Maids, 4-inch.....$12 00 per 100
3,000 Brides, 4-inch.....$12 00 per 100
4,000 Killarney, 3 1-2-inch..... 15 00 per 100

OWN ROOT ROSE PLANTS.

5.000 Kaiserin, 3-inch .....$4 00 per 100
5,000 Maids, 2 1-2-inch.....$3 00 per 100

Killarney Bench Plants Grafted, 2 years old. Price, $50.00 per 1000. Ready for immediate shipment. These plants will make fine stock for replanting in the benches.

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store:** 76 Wabash Ave., CHICAGO

Grafted Roses

Strong, thrifty plants
in 3½-in. pots.

Bride, Bridesmaid, Kaiserin, Richmond, Chatenay,
$12.00 per 100.

Rhea Reid and Mrs. Jardine,
$20.00 per 100.

Jackson & Perkins Co.
Newark, New York.

ROSES

	Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2¼-in.	5 00	45 00
Perle, Fine, strong, 2½-in.	5 00	45 00
Potter Palmer, 2½-in.	5 00	45 00

	Per 100	1000
Bride,	$ 5 00	$ 45 00
Maid,	5 00	45 00
Kaiserin, 3½-in.	6 50	55 00
Uncle John, Fine strong, 2½-in.	4 00	35 00
Killarney, Fine, strong, 2½-in.	5 50	
" " 3½-in.	7 50	

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia,** the early yellow, exceptionally fine, ready now. 2½-in., $3 00 per 100. $25 00 per 1000.
For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in.... $4 00 per 100: $35 00 per 1000
Smilax, 3-in..... 4 00 per 100: 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash. Terms: 30 days, net. Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., **Morton Grove, Ill.**

A Few Roses

GRAFTED
Brides, Bridesmaids, 3½-in. pots, $15.00 per 100.

OWN ROOTS
Brides, Bridesmaids, 3-in. pots, $7.00 per 100.

J. L. DILLON
Bloomsburg, Pa.

A FEW GOOD THINGS YOU WANT.

Rex Begonia, 2-in. $5.00 per 100.
Asparagus Sprengeri, 3-in. $5.00 per 100.
Geraniums, Nutt. Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in. pots, $2.00; 3-in., $4.00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2 50; 3-in., $5.00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in. $3.00 per 100; 3-in., $5.00 per 100. Cut fronds 25c per bunch.
Boston Ferns, 5-in 25c each. **Whitmani Ferns,** 4-in. 25c each.
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100.
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order

GEO. M. EMMANS, **Newton, N. J.**

RO SES

A SPECIALTY.

The Dingee & Conard Co.,
WEST GROVE, **PA.**

Smilax

2½-in. pots, $2.50 per 100; $15.00 per 1000.

Poinsettias
Good Stock, $4.00 per 100; $30.00 per 1000.

GEO. REINBERG, 51 Wabash Ave., Chicago.

Cleveland.

BUSINESS INERT.

Business continues about the same; summer lassitude and inertness is seen on every hand. As many of the retailers do not have ice in the summer, owing to the high price to which the ice trust has boosted this commodity, they buy only for orders, carrying nothing in stock to speak of. Carnations are going fast and will soon be out altogether. Asters are expected in quantity this week. Owing to the drought prevailing in the northern part of the state since June 27, growers had to water their outside stock, especially sweet peas, and on account of their being so cheap some growers questioned the advisability of this extra expense. Shasta daisies were in good demand the past week, and stock was of excellent quality. Water lilies still find a fair market; pink and white roses are also in good demand. A fine lot of cold storage Lilium candidum has been on the market lately; there are also a fine lot of white peonies still to be had.

NOTES.

Knoble Bros. are still advertising their $1 boxes of flowers; they say they are the goods. This firm closes at noon Sundays.

G. G. Stehn has moved his household to the suite above his store, cor. of W. Fourteenth and Auburn avenue.

Kirschners report a lot of funeral work. Water lilies have been used extensively also sweet peas.

Henry Taylor is sending in a fine lot of sweet peas from his Miles avenue place.

Wm. A. Smith, Robinwood avenue, has been cutting exceptionally good Shasta daisies.

C. C. Beingesser of Lorain, and family spent Sunday with friends here.

D. R. White of Sandusky, and his son were visitors on Saturday.

C. B.

ORCHIDS ORCHIDS ORCHIDS

Choice varieties, selected from large importations.

Choice named, well known and certificated hybrids.

In enormous quantities for exhibition purposes and cut flower growers.

STUART LOW & CO.

Beg to call the attention of lovers of Orchids in the United States to their large, varied and well grown stock of Orchids, which is being frequently augmented by large importations.
Visitors to Europe are cordially invited to inspect for themselves their extensive stock.

Also their large and well grown stock of

Roses, Fruit Trees in pots, Fruit Trees for outside planting, Stove and Greenhouse Plants.

Catalogues on application.
Estimates free.

Bush Hill Park, Enfield, England

Buffalo.

VACATIONS IN ORDER.

Summer quietness in every sense of the word is with us. The month of June ended with good business leaving all satisfied I believe with the spring trade and willing to abide by the spasmodic trade that may come to them. Vacations are now in order; each store has from one to two away all the time and will do so until all have had their vacation. After many year of solicitation without results by the employes of the different stores to have evenings off during July and August, this year the proprietors without any exception on Main street agreed to close at 6:30 evenings including Saturday during July and August. To say that the employes are grateful would be putting it mildly and I think that when the year ends and a balance is struck no store will feel the poorer for the three hours given during the two dull months when consideration is taken of all the evenings put in during the rest of the year not counting holidays and the occasional all night session.

NOTES.

Joseph Streit, foreman for S. A. Anderson at his greenhouse, with Mrs. Streit left on Saturday last for Germany to be gone for six weeks. On Thursday evening everyone from the store repaired to the greenhouse and bid Joe a happy farewell. Lunch was served and after the cigars were lighted Joe was presented with a traveling case from S. A. Anderson and the employes with the wish that his trip would be so pleasant and enjoyable that continual use could be made of the comb, brush and mirror to make himself the envy of all on board.

There was a well attended meeting of the Florists' Club on Tuesday evening. Considerable business of importance was transacted and plans were laid out for August, September and October meetings when papers will be read by Wm. Legg, W. A. Adams and President Slattery. The date was about definitely set for the annual outing which will be held July 28. W. H. Grever is chairman of the committee.

Schoenhut the William street retailer has bought an automobile for delivery purposes making three now in use by the florists, Palmer and Stafford being the others. More are negotiating.

The farmers and growers are suffering for want of rain and flowers from outdoors show the need of a downpour.

W. H. Sievers of Genesee street leaves this month for Europe.

W. J. Palmer expects to leave for a fishing trip next week.

BISON.

Splendid Plants. **ORCHIDS** Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas: Labiata, Mendelii, Mossiae, Gigas. Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Mountain Fastness to Grower. Send for Prices.

G. L. FREEMAN, 388 Appleton St., Holyoke, Mass.

ORCHIDS...

Largest Importers, Exporters, Growers, and Hybridists in the World.

SANDER, St. Albans, Eng.

NEW YORK OFFICE: Room 1, 235 Broadway. T. MELLSTROM, Agent.

Orchids

Of all kinds and for all purposes from the dry imported unestablished plants to the growing established plants, ready to put in your greenhouses and wait for the flowers.

Write for catalogue and special lists.

Lager & Hurrell, Summit, N. J.

ORCHIDS

We have imported this year all the commercial Cattleyas and other Orchids. Will have again **Cattleyas Lawrenceana, Gaskelliana, Dowiana** and **Percivaliana.**

Write today.

CARRILLO & BALDWIN, Secaucus, N. J.

BAY TREES.

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

Asparagus Plumosus

Strong 3-year old clumps at $20.00 per 100; also 2¼-in. pots at $20.00 per 1000.

ASPARAGUS SPRENGERI.....

2¼-in. pots, extra strong. $15.00 per 1000.

This is a bargain to close out.

WALTER W. COLES, Kokomo, Ind.

Miscellaneous Plants

Alternantheras, 4 varieties. $2.50 per 100.
Bouvardias, pink, white, scarlet. 2-in. pots. $3.00 per 100.
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow. 2½-in. pots. $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants. $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2.00 per doz.
Geraniums, best varieties from 3-in. pots. $4.00 per 100; 4-in. pots $6.00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground. $1.00 per doz.
Lobelia, Double blue. 2½-in. pots $3.00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias, 4 varieties; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia, California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus, Golden Bedder quadri-color; Golden Feather. Cupheas. Snapdragon. Lantanas. Smilax. Asparagus Sprengeri.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa. Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts., **PHILADELPHIA, PA.**
Mention the American Florist when writing

GERANIUMS....

To Close Out for Bench Room.

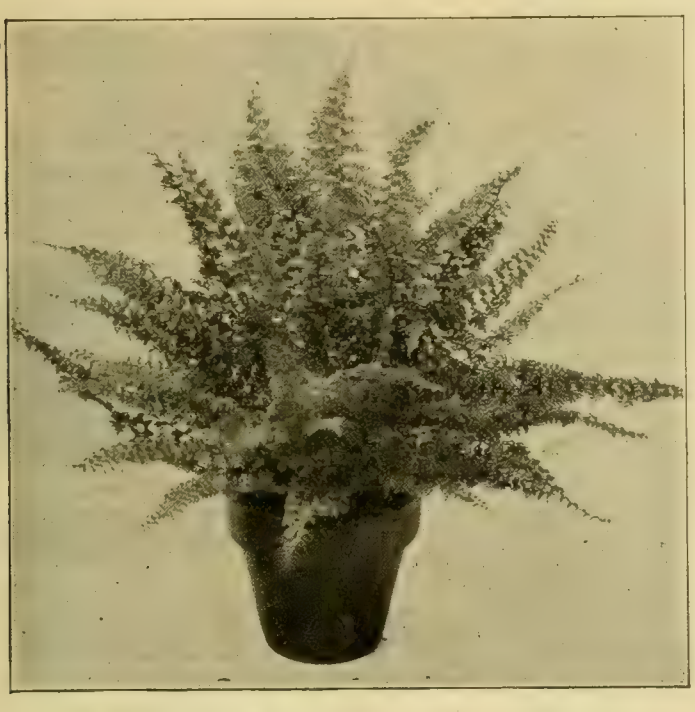
	Per 100
S. A. Nutt, Bruant, La Favorite, 4-in	$4.00
Mme. Salleroi, 2½-in	1.00
Rose Geraniums, fine 4-in.	4.00
English Ivy, 4½-in., fine stock	$12.50 per 100
Fuchsias, 2-in	1.50 per 100

N. C. MOORE & CO., Morton Grove, Ill.

$1.50 per 100.

Geraniums, double Grant, Bruant, Viaud, etc. 2-in., $1.50 per 100.
Heliotrope, Salvia, Coleus, Stevia, 2-in., $1.50 per 100. **Alternanthera,** $1.50 per 100. **Paris Daisy,** yellow, white. **Swainsona,** alba. **Stevia,** green. **Celestial Peppers,** 2 in., $1.50 per 100.
Asparagus Sprengeri, 2-in., 2c. **Jerusalem Cherries,** 2-in., $2.00 per 100. Cash or C.O.D.

BYER BROS., Chambersburg, Pa.



NEPHROLEPIS SCHOLZELI

The New Crested Scotti Fern

This crested sport of Scotti has proven all that has been claimed for it, and it promises to become even more popular that its parent.

It is, without a doubt, the ideal crested fern: a good quick grower, and makes a salable plant in any size from a 3-inch pot to a large specimen. A profitable fern for every body. Awarded the following honors:

Shaw Gold Medal, St. Louis Horticultural Society, Nov. 3, 1908, for best plant of decided merit for cultivation, not previously an article of North American commerce.

Silver Medal, Offered by the Society of American Florists, through the St. Louis Horticultural Society, Nov. 3, 1908, for the most meritorious plant or flower of American origin.

Certificate of Merit, Of the Horticultural Society of St. Louis, November 3, 1908.

Silver Medal, Pennsylvania Horticultural Society, Philadelphia November 10, 1908, for best new plant exhibited.

Certificate of Merit, Massachusetts Horticultural Society Boston, November 6, 1908.

Certificate of Merit. Dutchess County Horticultural Society, Poughkeepsie, N. Y., October 30, 1908.

Certificate of Merit. Morris County Gardeners' and Florists' Society, Madison, N. J., October 30, 1908.

Certificate of Merit, Chestnut Hill Horticultural Society, Philadelphia, Pa., November 4, 1908.

Certificate of Merit, American Institute, New York City, November 12, 1908.

Certificate of Merit, Germantown Horticultural Society, Germantown, Philadelphia, Pa., November 9, 1908.

Certificate of Merit, Horticultural Society of New York, November 18, 1908, for distinct new variety of merit.

Bronze Medal, International Horticultural Exhibition, Berlin, Germany, April 2, 1909.

We offer for immediate delivery, nice strong plants from 2¼-in pots, At **$3.50** per dozen; **$25.00** per 100; **$200.00** per 1000. 25 supplied at 100 rates; 500 supplied at 1000 rates.

HENRY A. DREER, Inc.,
714 Chestnut St., - PHILADELPHIA, PA.

Davenport, Ia.

The July monthly meeting of the Tri-City Florists' Club was in the nature of a surprise party on Robt. Grafengeter and wife, and was a post-nuptial event, Mr. and Mrs. Grafengeter having been married in May. The club presented the couple with a handsome mahogany rocking chair, the presentation speech being made by the worthy president Emil O. Boehm. During the business session the picnic committee reported everything in readiness for the annual picnic to be held at Walnut Grove, Moline, Ill., on July 15 and the event promises to be the biggest of the season. The topic for the evening's discussion was "The Advisability of State Control of the Planting of Trees and Shrubs on the Public Highways." Discussion led by Emil Boehm, superintendent of parks. After the business meeting adjourned the club was invited into the dining room where a fine supper was in waiting, to which the guests did ample justice, and all voted Mrs. Grafengeter worthy to be the wife of a good florist. During the supper Mrs. Grafengeter favored the guests with selections on the piano.

The Fourth of July is the florists' only legal holiday when he is not rushed to death. It was very cold and rainy. Many overcoats were worn, and all plans for a glorious Fourth were declared off.

Now then, boys, don't forget our annual picnic; bring the wives and sweethearts and all the little ones, we want our holiday to be brim full of all good things and one you'll not forget.

Roses and chrysanthemums are all planted and looking fine. Carnations in the field are doing well, thanks to the numerous showers.

Visitor: Wesley Green, Des Moines.

T. E.

KAYSVILLE, UTAH.—Articles of incorporation were filed June 29 by the Gleason & Clark Co., which is organized to carry on a general nursery, fruit and vegetable business. The capital is $10,000. The officers are: F. E. Clark, Logan, president; H. C. Clark, vice president and general manager; Sumner Gleason, secretary and treasurer, these persons also forming the directorate.

What Shall I Fill My Empty Houses with Now?

WHAT WILL PAY THE BEST?

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We are the largest importers of these so well known beautiful evergreen decorative plants. **Araucaria Robusta Compacta, Glauca and Excelsa.** ☞ Florists, bear in mind there is no garden lawn or porch, etc., in the summer that is complete without the Araucarias; therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria. Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful. Specimen plants, 6-7-8 in. pots, 4-5 year old, 4-5-6 tiers, 20-25-30-32 in. high, same in width, $1.50 $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots, 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3.00 each.

Araucaria Excelsa, 3-4-5 year old 5-6-7 tiers, 6-in. pots, 20-25 30-35 in. high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation 2 to 3 years old, 5½ to 6 in. pots, 40c, 50c, 60c and 75c. Can meet all applications.

Araucaria Robusta Compacta and **Excelsa Glauca,** April, 1909 importation, 6-in pots, 2-3-4 tiers, 3 years old, 12 to 20 in. high, $1.00, $1.25, $1.50 each.

Kentia Forsteriana, made up 8-in. pots, one large, 45 to 48 in. high, in center, three smaller ones around, $4.00; single 6-7 in. pots, from 20 to 48 in. high, 75c, $1.00, 1.25, $1.50, $2.00, $2.50 to $3.00 each.

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If you want money for Xmas, plant J. Rosette and lots of it. Also Golden Glow and Miss Clay Frick, strong, 2½-in., $4; R. C., $3. Monrovia, Shaw, Enguehard, Frost, Touset, Money Maker, Buckbee, Eaton, Nonin, strong, 2½-in., $2.50; R. C., $1.50. Cash please. The Union City Greenhouse, Union City, Pa.

Chrysanthemums, 2¼-in., $2.50 per 100; $20 per 1,000; Robt. Halliday, Rosiere, Early Snow, Crocus, Shaw, W. Bonnaffon, Maud Dean, Monrovia, G. Glow, Pacific Supreme, Bonnaffon, A. J. Balfour, Polly Rose. Elmer D. Smith & Co., Adrian, Mich.

Special on Golden Glow, Frick and Beatrice May, 4-in., well branched, 6c; strong plants, 3c; R. C., 2c. Best early pink J. K. Shaw, strong plants, 2½c; R. C., 1½c. Enguehard, Monrovia, Touset, Money Maker, Buckbee, Eaton, Nonin, same price. W. J. Olds, Union City, Pa.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

Chrysanthemums, Oct. Frost, J. Nonin, Touset, W. Bonnaffon, Col. Appleton, Y. Bonnaffon, Intensity, M. Dean, $1 per 100. Pompons: Mrs. Beu, $2.50; Garza, $2; Diana, $2; Antonio, $2. N. C. Moore & Co., Morton Grove, Ill.

Chrysanthemums, 2 and 3-in., Touset, Enguehard, Pacific, Estelle pink and white, P. and W. Jones, Duckham, pompons, Mrs. Beu, Diana, 2c each. Mrs. A. M. Schafer, 229 Balmoral Ave., Chicago.

Chrysanthemums, Golden Eagle, Poehlmann, Lynnwood Hall, 2½-in., $4 per 100; $35 per 1,000; Standards, 2½-in., $20 per 1,000; R. C. $15. I. M. Rayner, Greenport, L. I., N. Y.

Chrysanthemums, White Cloud, Pacific Supreme, Golden Glow, 2½-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Chrysanthemums. Chas. H. Totty, Madison, N. J.

Chrysanthemums, best varieties, 4½-in., $8 per 100. Frank Oechslin, 2572 W. Adams St., Chicago.

Chrysanthemum plants, 2-in., fine stock, standard varieties, $20 per 1,000. Carl Hagenburger Co., W. Mentor, O.

Chrysanthemums, leading vars. Wood Bros., Fishkill, N. Y.

Golden Glow, 3½c, from 2-in. pots. J. L. Schiller, 929 Prouty Ave., Toledo, O.

CLEMATIS.

Clematis paniculata, 3-in., $5 per 100. Large flowering vars., 2-yr., $3 per doz.; Jackmani, Henryi, Mme. Andre-Coccinea, $2 per doz. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Clematis paniculata, field grown, $10 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Clematis. Bobbink & Atkins, Rutherford, N. J.

COLEUS.

Coleus, 2½-in., 10 vars., 75c per 100. Johnston & Mellinger, Calla, O.

CUPHEAS.

Cupheas, 2-in., $1 per 100. Johnston & Mellinger, Calla, O.

CYCLAMEN.

Cyclamen, 3-in., $7 per 100; 4-in., $15; 5-in., $25. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Cyclamen Persicum Giganteum, 3-in., 6c and 7c. Alfred Hannah & Sons, Grand Rapids, Mich.

Cyclamens. Vaughan's Seed Store, Chicago and New York.

Cyclamen, 2-in., $2 per 100. Johnston & Mellinger, Calla, O.

DAISIES.

Paris daisy, 2-in., $1 per 100. Shasta, 1¾-in., 50c per 100. Johnston & Mellinger, Calla, O.

Daisies, $2.50 per 1,000. J. C. Schmidt, Bristol, Pa.

DRACENAS.

Dracæna indivisa, 5-in., 20c. Mosbæk Greenhouse Co., Onarga, Ill.

FERNS.

Ferns, Nephrolepis Superbissima, 2¼-in., $5 per doz.; $35 per 100; 4-in., $7.50 per doz.; $50 per 100; 6-in., $1.50 each; $15 doz. F. R. Pierson, Tarrytown-on-Hudson, N. Y.

Ferns, Boston, 2¼-in., 4c; 3-in., 8c. Sword, 4-in., 12½c. Elegantissima, 2¼-in., 5c; 3-in., 10c. Piersoni, 8-in., $1. Mosbæk Greenhouse Co., Onarga, Ill.

Fern Nephrolepsis Scholzeli, 2¼-in., $3.50 per doz.; $25 per 100; $200 per 1,000. Henry A. Dreer, Inc., 714 Chestnut St., Phila.

Ferns, Whitmani, 2¼-in., $5 per 100; 3½-in., $25 per 100. Boston, 2¼-in., $3 per 100. H. H. Barrows & Son, Whitman, Mass.

Ferns for dishes, assorted, 2¼-in., $3 per 100; $25 per 1,000. Frank Oechslin, 2572 W. Adams St., Chicago.

Ferns, Boston, Whitmani, etc. Geo. A. Kuhl, Pekin, Ill.

Ferns, Boston, 5-in., 25c each, Whitmani, 4-in., 25c. Geo. M. Emmans, Newton, N. J.

Small ferns. Ernest Oechslin, 180 Madison St., River Forest, Ill.

FICUS.

Ficus elastica, 5¼ to 6-in., 25c and 30c. G. Aschmann, 1012 W. Ontario St., Phila.

Rubbers. P. J. Berckmans, Augusta, Ga.

FUCHSIAS.

Fuchsias, 2-in., Elm City, Gloria De Marchi, Avalanche Dolly Varden, Arbaella, Mary, Beauty of Exeter, Black Prince, $1 per 100; 3-in., $2. Johnston & Mellinger, Calla, O.

Fuchsias, 2-in., $1.50 per 100. N. C. Moore & Co., Morton Grove, Ill.

GERANIUMS.

Geraniums, Nutt, Doyle, Perkins, Ricard, Grant, La Favorite, R. C., $1.25; 2-in., $2; 3-in., $4 per 100. Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in., $2.50; 3-in., $5. Mme. Salleroi, 2-in., $3. Geo. M. Emmans, Newton, N. J.

Geraniums, Nutt, Bruant, La Favorite, 4-in., $4 per 100. Mme. Salleroi, 2½-in., $1 per 100. Rose geranium, 4-in., $4 per 100. N. C. Moore & Co., Morton Grove, Ill.

Geraniums, 4-in., strong, stocky plants, all in bud and bloom, of the best commercial varieties at $7 per 100. Joseph Labo, Joliet, Ill.

Geraniums, 2-in., Doyle, La Favorite, $1.50 per 100. Mixed, 30 varieties, $1.50 per 100. Johnston & Mellinger, Calla, O.

Geraniums, $1 per 100; $10 per 1,000 summer prices; winter prices on request. A. M. Herr, Lancaster, Pa.

Geraniums, best vars., 3-in., $4 per 100; 4-in., $6. C. Eisele, 11th and Westmoreland Sts., Philadelphia.

Geraniums, 3-in., $3 per 100; $25 per 1,000. R. Vincent, Jr., & Sons, White Marsh, Md.

Geraniums, 4-in. in bloom, $4 per 100; 2½-in., $1.50. J. C. Schmidt, Bristol, Pa.

Geranium Mme. Salleroi, 3-in., 4c. Crabb & Hunter Floral Co., Grand Rapids, Mich.

GREENS.

Greens, fancy and dagger ferns, $1.25 per 1,000. Galax, bronze and green, $1.25 per 1,000; 10,000, $7.50. Sphagnum Moss, large bales, $1.25; Leucothoe Sprays, $1 per 100; 1,000, $7.50. Boxwood, 35c per bunch, 50 lbs., $8.50. Michigan Cut Flower Exchange, Inc., 38-40 Broadway, Detroit, Mich.

Greens, fancy and dagger ferns, 50c per 1,000. Laurel Roping, 5c per yd. Bouquet green, 7c per lb., roping, 5c per yd. Sphagnum moss, 60c per bbl. Thomas Collins, Box 241, Hinsdale, Mass.

Greens, fancy and dagger ferns, $1 per 1,000. Green galax, 50c per 1,000. J. N. Pritchard, Elk Park, N. C.

Greens, extra fine daggers, $1.50 per 1,000. Thomas Cogger, 280 Main St., Rochester, N. Y.

Greens, evergreens, fancy and dagger fern, bronze and green galax. Geo. Cotsonas & Co., 53 W. 28th St., New York.

Greens, southern wild smilax, log mosses, natural and perpetuated. E. A. Beaven, Evergreen, Ala.

Greens, cut palmetto and cycas leaves galax leucothoe, ferns, mosses, etc. Kervan Co., 113 W. 28th St., New York.

Greens, southern wild smilax. Caldwell the Woodsman Co., Evergreen, Ala.

Greens, fancy and dagger ferns, $1 per 1,000. T. J. Ray & Co., Elk Park, N. C.

GYPSOPHILAS.

Gypsophila, field-grown, 90c per doz.; $6 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

HARDY PERENNIALS.

Hardy phlox, 8 vars., 2-in., $1 per 100. Johnston & Mellinger, Calla, O.

HELIOTROPES.

Heliotrope, blue and white, 2-in., $1 per 100. Johnston & Mellinger, Calla, O.

HYDRANGEAS.

Hydrangeas, specimens in tubs, $3 each; in half barrels, $5 and $7.50 each. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Hydrangea Otaksa, 2½-in. pots, $4 per 100; 4-in. pots, $6 per 100; 5-in. pots, $10 per 100. Edward Salyer, Wilkes-Barre, Pa.

HIBISCUS.

Hibiscus, 2-in., 5 vars., $1 per 100. Johnston & Mellinger, Calla, O.

IRISES.

Iris, Japanese, field-grown, $1.20 per doz.; $8 per 100. Germanica, field-grown, 75c per doz.; $5 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

IVIES.

English ivy, 2-in., R. C., 75c. J. H. Dann & Sons, Westfield, N. Y.

Ivy, German and var. English, $1.25 per 100. Johnston & Mellinger, Calla, O.

Ivy, English, 4½-in., $12.50 per 100. N. C. Moore & Co., Morton Grove, Ill.

JERUSALEM CHERRIES.

Jerusalem cherries, 2 in a pot, $5 per 100. G. Aschmann, 1012 W. Ontario St., Philadelphia.

LANTANAS.

Lantanas, weeping, 2-in., $1 per 100; 3-in., $2. Johnston & Mellinger, Calla, O.

LILACS.

Lilacs. Jacs Smits, Naarden, Holland.

LILY OF THE VALLEY.

To Import.

Lily of the valley. Otto Mann, Leipzig, Saxony, Germany.

Lily of the Valley. Jacs Smits, Ltd., Naarden, Holland.

From Storage.

Lily of the valley. H. N. Bruns, 1407-11 W. Madison St., Chicago.

LEMONS.

Lemon Am. Wonder, 6-in., $8 per 100. Johnston & Mellinger, Calla, O.

LOBELIA.

Lobelia, dbl. blue, 2½-in., $3 per 100. C. Eisele, 11th and Westmoreland Sts., Phila.

MOONVINES.

Moonvines, 4-in., $12 per 100; 3-in., $8; 2½-in., $5. G. Aschmann, 1012 W. Ontario St., Philadelphia.

MOSS.

Sphagnum. Both quality and quantity, bag or barrel, $1; 4 do., $3; 10 do., $7. Cash, please. W. J. Olds, Union City, Pa.

Sphagnum moss. Vaughan's Seed Store, Chicago and New York.

MUSHROOM SPAWN.

Mushroom Spawn, Vaughan's English, 25 lbs., $2; 100 lbs., $6.50. Garden City Pure Culture, 25 bricks, $3.75; 100 bricks, $12. Vaughan's Seed Store, Chicago and New York.

Mushroom spawn. Sure crop, $8 per 100 lbs. Weeber & Don, 114 Chambers St., N. Y.

Mushroom spawn. Lambert's Pure Culture American Spawn Co., St. Paul, Minn.

Mushroom spawn. Johnson's, Ltd., 44 Bedford Row, London, England.

NURSERY STOCK.

Nursery stock, blue spruce, berried plants, climbing plants, clematis, conifers, evergreens, funkias, Japan maples, hydrangeas. Jacs Smits, Ltd., Naarden, Holland.

Nursery stock, evergreens in choice varieties. Trained fruit trees, greenhouse grapes, trees and shrubs. Bobbink & Atkins, Rutherford, N. J.

Nursery stock, large trees, oaks, maples, pines and hemlocks. Andorra Nurseries Chestnut Hill, Philadelphia.

Nursery stock, arbor vitæ (Thuya occidentalis), 3 to 4 ft., 4 to 5 ft. trees. The Wm. H. Moon Co., Morrisville, Pa.

Nursery stock, fruit trees in pots and outside planting. Stuart Low & Co., Bush Hill Park, Enfield, England.

Nursery stock of all kinds. Storrs & Harrison, Painesville, Ohio.

Trees, shrubs, evergreens, hardy plants. Ellwanger & Barry, Rochester, N. Y.

Nursery stock, ornamental trees and shrubs. W. & T. Smith Co., Geneva, N. Y.

ORCHIDS.

Orchids, importers, exporters, growers and hybridists. Sander, St. Albans, England. New York office, room 1, 235 Broadway.

Orchids. Largest stock in the country. Ask for prices. Julius Roehrs Co., Rutherford, N. J.

Orchids, all commercial, cattleyas and novelties. Carrillo & Baldwin, Secaucus, N. J.

Orchids of all kinds. Stuart Low & Co., Bush Hill Park, Enfield, England.

Orchids of all kinds. Lager & Hurrell, Summit, N. J.

If You Do Not Find What You Need in Our Ready Reference Department, Write Us About It.

PALMS.

Palms, Areca lutescens, 3-in., $2 per doz.; 4-in., 25c each; $3 per doz.; 5-in., 50c each; $5 per doz.; 6-in., 75c each; $9 per doz; 7-in., $2 each; $24 per doz; 8-in., $3 each; $36 per doz., 10-in., $5 each; $60 per doz. Kentia Bel., 3-in., 4 leaves, 10-12 ins., $2 per doz; 4-in., 4-5 lvs., 14-16 ins., 35c; 5-in., 5-6 lvs., 18-22 ins., 75c; 6-in., 5-6 lvs., 20-24 ins., $1 and $1.25; 6-in., 5-6 lvs., 24-28 ins., $1.50; 7-in., 6-7 lvs., 24-30 ins., $2.50; 8-in., 7-9 lvs., 36-42 ins., $6. Geo Wittbold, 1657 Buckingham Pl., Chicago.

Palms, Kentia Bel., 6-in., 22 to 24 ins., $1 each; $12 per doz.; 6-in., 24 to 26 ins., $1.25 each; $15 per doz.; 6-in., 26 to 28 ins., $1.50 each; $18 per doz.; 9-in. tub 42 to 48 ins., $5 each. Kentia Fors., 6-in., 28 to 30 ins., $1 each; $12 per doz.; 6-in., 30 to 32 ins., $1.25 each; $15 per doz.; 6-in., 34 to 36 ins., $1.50 each; $18 per doz. Made-up Fors., 9-in. tub, 42 to 48 ins., $4 each.; 12-in., 6 ft. high, $15 each; 12-in., 6 to 8 ft., $20 each. Joseph Heacock Co., Wyncote, Pa.

Palms, Kentia Bel. and Fors., big plants, $1.25 to $2 each. G. Aschman, 1012 W. Ontario St., Philadelphia.

Palms, arecas. P. J. Berckmans Co., Augusta, Ga.

Palms. Vaughan's Seed Store, Chicago and New York.

PEPPERS.

Christmas peppers, 2-in., $2.50 per 100; 3½-in., $5. Frank Oechslin, 2572 W. Adams St., Chicago.

PEONIES.

Peonies, all vars. Jacs Smits, Ltd., Naarden, Holland.

Peonies, leading vars. W. & T. Smith Co., Geneva, N. Y.

Wholesale peony list is now ready. J. F. Rosenfield, West Point, Neb.

Peonies, leading varieties. Cottage Gardens Co., Inc., Queens, N. Y.

Peonies. Gilbert H. Wild, Sarcoxie, Mo.

POINSETTIAS.

Poinsettias, 2½-in., $5 per 100; $45 per 1,000. Skidelsky & Irwin Co., 144 N. 7th St., Philadelphia.

Poinsettias. Vaughan's Seed Store, Chicago and New York.

Poinsettias, 2½-in., $5 per 100. Frank Oechslin, 2572 W. Adams St., Chicago.

Poinsettias. Geo. A. Kuhl, Pekin, Ill.

PRIMULAS.

Chinensis, finest giant fringed strains ready now, 9 separate colors or mixed, from 2-in. pots, 2c. Obconica, Ronsdorfer, Lattmann's Hybrids ready now, 10 separate colors or mixed, 2-in., 2c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Primula obconica, Ronsdorf hybrid, 2½-in., $3 per 100; $25 per 1,000. Chinese primroses, English and French strains, 2¼-in., $3 per 100; $25 per 1,000. Frank Oechslin, 2572 W. Adams St., Chicago.

Primroses. Chinese, Forbesi, obconica, grandi, alba and rosea, $2 per 100. O. gigantea and Kermesina, $3. Jos. H. Cunningham, Delaware, O.

Primroses, yellow. G. A. Kuhl, Pekin, Ill.

PYRETHRUMS.

Pyrethrums, field-grown, $1.20 per doz.; $8 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

RHODODENDRONS.

Rhododendrons. Jacs Smits, Naarden, Holland.

ROSES.

ROSE PLANTS.

2½-Inch Stock.

	Per 100.	Per 1,000
Maids	$3.00	$25.00
Brides	3.00	25.00
Chatenay	3.00	25.00
Uncle John	3.00	25.00
Richmond	3.00	25.00
Rhea Reid	5.00	45.00
Kaiserin	4.00	35.00
	100	1,000
2,000 American Beauties, 2½-in.	$4.00	$35.00
500 American Beauties, 3-in.	5.00	

WIETOR BROS.,

51 Wabash Ave. Chicago.

Roses, grafted, Maid, Bride, 4-in., $12 per 100; Killarney, 3½-in., $15 per 100. Own root, Kaiserin, 3-in., $4 per 100; Maid, 2½-in., $3. Bassett & Washburn, 76 Wabash Ave., Chicago.

Roses, 2-in., Seven Sisters, No. Lights, Mme. Kruger, G. Gate, Mignonette, Mme. Cecil, Brunner, Mary Washington, Caroline Marniesse, C. De Lyon, Pink Baby, Souv. de Gaulain, B. Berg, Queen Scarlet, Manda's Triumph, Champion World, Pink Rambler, $1.25 per 100. H. Meynedier, B. Berg, Mme. Jos. Swartz, H. M. Stanley, Souv. de Gaulain, White Soupert, Coquet de Lyon, 3-in., $2.25 per 100. Hardy Roses: Magna Charta, Pius IX, Mme. C. Wood, U. Brunner, 5-in., $4.50 per 100. Mixed tea roses, 40 varieties, 2-in., $1 per 100. Johnston & Mellinger, Calla, O.

Roses, Beauty, 4-in., $12 per 100; $110 per 1,000; 3-in., $9 per 100; $80 per 1,000; 2-in., $6.50 per 100; $60 per 1,000. Rhea Reid, 2¼-in., $5 per 100; $45 per 1,000. Bride, Maid, $5 per 100; $45 per 1,000. Potter Palmer, 2½-in., $5 per 100; $45 per 1,000. Kaiserin, 3½-in., $6.50 per 100; $55 per 1,000. Uncle John, 2½-in., $4 per 100; $35 per 1,000. Killarney, 2½-in., $5.50 per 100; 3½-in., $7.50. Perle, 2½-in., $5 per 100; $45 per 1,000. Poehlmann Bros. Co., Morton Grove, Ill.

Roses, 2½-in., Am. Beauty, $4 per 100; $35 per 1,000; 3-in., $5 per 100; $40 per 1,000. Richmond, $2.50 per 100; $20 per 1,000; 3-in., $3.50 per 100; $30 per 1,000. My Maryland, $5 per 100; $40 per 1,000. Bride, Chatenay, $3 per 100; $25 per 1,000. Perle, $3.50 per 100; $30 per 1,000. Countess of Gosport, $4 per 100; $35 per 1,000. Killarney, 3-in., $5 per 100; $45 per 1,000. Peter Reinberg, 35 Randolph St., Chicago.

Roses, strong, clean stock, grafted; Bride, Maid and Richmond, $12 per 100. Own roots; Bride, Maid, Ivory, Gates and Richmond, $6 per 100; all from 3½-in. pots. Also Dracæna indivisa, pot-grown, plants 5½-in., $25 per 100. P. R. Quinlan, Syracuse, N. Y.

Grafted roses, strong, healthy stock. Rhea Reid, 2½-in., 15c; Richmond, Bride and Maid, 2½-in., 10c. Samples 25c. Joy Floral Co., Nashville, Tenn.

Roses, grafted and own root, Am. Beauty, Richmond, Killarney, Kaiserin, Bride, Maid, Bon Silene, Safrano, Perle. W. H. Elliott, Brighton, Mass.

Roses, grafted, 3½-in., Bride, Maid, Kaiserin, Richmond, Chatenay, $12 per 100. Rhea Reid, Mrs. Jardine, $20 per 100. Jackson & Perkins Co., Newark, N. Y.

Roses, 3,000 Killarney, 2,000 Richmond, 500 Enchanter, 3-in., $5 per 100; 1,000 My Maryland, $90 per 1,000. Gude Bros. Co., 1214 F St., northwest, Washington, D. C.

Roses, a bargain, 4-in. plants, extra fine stock, surplus grown for our own planting, 225 Brides, 450 Bridesmaids, $7 per 100. Joseph Rock, Burlington, Ia.

Roses, grafted, Bride, Maid, 3½-in., $15 per 100. Own roots, Bride, Maid, 3-in., $7 per 100. J. L. Dillon, Bloomsburg, Pa.

Roses, Ivory and Uncle John, fine, well pot bound stock, 3-in., $4 per 100. Mosbæk Greenhouse Co., Onarga, Ill.

Roses, C. Rambler, D. Perkins, Lady Gay, 5½ and 6-in., 25c and 30c each. G. Aschmann, 1012 W. Ontario St., Philadelphia.

Roses, on own roots, budded, bedding, H. Ps., hybrids and teas. W. & T. Smith Co., Geneva, N. Y.

Roses, field-grown, Newport Fairy, 1 year, 3 to 4 ft., 50c each; $30 per 100. Julius Roehrs Co., Rutherford, N. J.

Roses, leading varieties. Leedle Floral Co., Springfield, Ohio.

Roses, field-grown. P. J. Berckmans Co., Augusta, Ga.

Roses, Bride, Maid, Golden Gate, 3-in., $5 per 100. Geo. M. Emmans, Newton, N. J.

Roses, leading vars. Dingee & Conard Co., West Grove, Pa.

Roses. Stuart Low & Co., Bush Hill Park, Enfield, England.

Roses, 3-in. Wood Bros., Fishkill, N. Y.

SEEDS.

Seeds, pansies, Florists' mixture, oz., $4; pkt., 50c. Cassier's Giant improved mixture, oz., $5; pkt., 75c. Cassier's yel. and white, separate, oz., $6; pkt., $1. Germania, oz., $8; pkt., $1. Parisian giants, mixed, oz., $3; pkt., 50c. Trimardeau, Black King, Emperor William, Golden yellow, Beaconfield purple, white yellow with black eye, separate, oz., $2; pkt., 30c. Trimardeau mixture, oz., $1.50; pkt., 25c. O. V. Zangen, Hoboken, N. J.

Seeds, bean, beet, cabbage, carrot, kohlrabi, leek, lettuce, onion, pea, radish, spinach, turnip, swede, aster, balsam, begonia, carnation, cineraria, gloxinia, larkspur, nasturtium, pansy, petunia, phlox, primula, scabious, stock, verbena, zinnia, etc. Giant pansy, $5 per oz.; $1.50 per ¼ oz.; 75c per 1-16 oz. H. Mette, Quedlinburg, Germany.

Seeds, Seth Low muskmelon. New York Market cucumber. Brechin Castle Brussels sprouts. Weeber & Don, 114 Chambers St., New York.

Seeds, pansy, Brown's Superb Giant, yellow with dark eye and pure white, separate colors, 3,000 seeds, $1; ¼ oz., $1.50; ½ oz., $2.50; oz., $5; ¼ lb., $14; ½ lb., $25; 1 lb., $50. Peter Brown, Lancaster, Pa.

Seeds, wholesale growers of full list of flower and garden seeds; sweet pea and nasturtium specialties. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, onion, lettuce, sweet peas, carrot, celery, leek, mustard, parsley, parsnip, radish, salsify. C. C. Morse & Co., 48-56 Jackson St., San Francisco, Calif.

Seeds, cyclamens, Giant Salmon King. Primula Sinensis in 7 distinct colors. St. George's Nursery Co., Harlington, Middlesex, England.

Seeds, beans, peas, sweet corn, onion, beet, turnip, etc. The Everett B. Clark Seed Co., Milford, Conn., East Jordon, Mich., Sister Bay, Wis.

Seeds, pansy, mammoth flowering varieties. Stokes' Seed Store, 219 Market St., Philadelphia.

Seeds, pansies, mixed, oz., $5; 3 ozs., $12; ½ oz., $2.50; pkg. 4,000 seeds, $1; ½ pkg., 50c. E. B. Jennings, Southport, Conn.

Seeds, pansy, also other seasonable seeds. H. E. Fiske Seed Co., 13 Faneuil Hall Square, Boston.

Seeds of all kinds. W. W. Johnson & Son, Ltd., Boston, England.

Seeds, choice German flower seeds. Frederick Roemer, Quedlinburg, Germany.

Seeds, pansy, new crop, $4 per oz. Jos. H. Cunningham, Delaware, Ohio.

Seeds, Vick's Quality. James Vick's Sons, Rochester, N. Y.

Seeds, all kinds. Bridgman's Seed Warehouse, 37 E. 19th St., New York.

The best giant pansy seed. Send for leaflet. Chas. Frost, Kenilworth, N. J.

Seed, Davis Perfect Cucumber. Alfred J. Brown Seed Co., Grand Rapids, Mich.

Seeds, pansy, 1,000 mixed, 25c; 1 oz., $2.25. H. Wrede, Luneburg, Germany.

Seeds of all kinds. A. T. Boddington, 342 W. 14th St., New York.

Seeds, sweet peas. Anton Zvolanek, Boundbrook, N. J.

Contract Growers.

Seeds, bean, cucumber, tomato, radish, pea, muskmelon, squash, watermelon, sweet corn. S. M. Isbell & Co., Jackson, Mich.

Seeds, lettuce, onions, sweet peas, aster, cosmos, mignonette, verbena. Waldo Rohnert, Gilroy, Calif.

Seeds, sweet peas, tomatoes, Lima beans, lettuce, asters, cosmos and other flower seeds. John Bodger & Sons, Gardena, Calif.

Seeds, growers for the wholesale trade only. Brasian Seed Growers' Co., San Jose, Calif.

Seeds, field, garden and flower. Routzahn Seed Co., Arroyo Grande, Calif.

Seeds, Bermuda onion. Federico C. Varela, Teneriffe, Canary Islands.

Seeds, peas and beans. Alfred J. Brown Seed Co., Grand Rapids, Mich.

SMILAX.

Smilax, 2½-in., $2.50 per 100; $20 per 1,000. Geo. Reinberg, 35 Randolph St., Chicago.

Smilax, nice plants, fall sown, transplanted, 50c per 100; $4 per 1,000. F. A. Baller, Bloomington, Ill.

Smilax, strong, bushy plants, from 2½-in. pots, $2 per 100; $18 per 1,000. Wm, Metzger, Wenona, Ill.

Smilax plants, 2¼-in., $1.50 per 100; $12 per 1,000. Skidelsky & Irwin Co., 144 No. 7th St., Philadelphia, Pa.

Smilax, 2-in., 1½c; myrtle leaved, 2-in., 2½c. J. L. Schiller, 929 Prouty Ave., Toledo, O.

Smilax, $1 per 100. Jos. H. Cunningham, Delaware, O.

Smilax, 1¾-in., 75c per 100. Johnston & Mellinger, Calla, O.

Smilax, A-1 plants, 2½-in., $2 per 100. Cash please. S. W. Carey, Urbana, O.

Smilax, 2,000 strong, bushy plants in 2-in. pots, $2. Joy Floral Co., Nashville, Tenn.

Smilax, $1.50 per 100; $15 per 1,000. A. M. Herr, Lancaster, Pa.

Smilax, 2-in., $2.25 per 100. F. C. Riebe, Webster, Mass.

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Spireas. J. Smits, Ltd., Naarden, Holland.

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Growers' Cut Flower Co., 39 W. 28th St., New York.
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Kennicott Bros. Co., 48-50 Wabash, Chicago.
Kessler Bros., 50 W. 28th St., New York.
Keuhn, C. A., 1122 Pine St., St. Louis.
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Langjahr, Alfred H., 55 W. 28th St., N. Y.
Manhattan Flower Market, 46 W. 28th St., New York.
McCallum Co., 937 Liberty Ave., Pittsburg.
McCullough's Sons Co., J. M., 316 Walnut St., Cincinnati, O.
McKellar, Chas. W., 51 Wabash, Chicago.
McKissick, W. E. & Bros., 1619-21 Ranstead St., Philadelphia.
Michigan Cut Flower Exchange, 30-40 Broadway, Detroit, Mich.
Millang Bros., 41 W. 28th St., New York.
Chas. Millang, 444 6th Ave., cor. 27th St., New York.
Niessen Co., Leo, 1208 Arch St., Phila.
N. Y. Cut Flower Ex., Coogan Bldg., 6th Ave. and W. 26th St., New York.
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Pittsburg Cut Flower Co., Ltd., 222 Oliver Ave., Pittsburg, Pa.
Pittsburg Florists' Exchange, 217-233 Diamond St., Pittsburg, Pa.
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Rice Bros., 128 N. 6th St., Minneapolis, Minn.
Sheridan, Walter F., 39 W. 28th St., N. Y.
Shibeley-Mann Co., Inc., 1203 Sutter St., San Francisco.
Smith & Co., W. C., 1316 Pine St., St. Louis.
Traendly & Schenck, 44 W. 28th St., N. Y.
Valentine & Co., 158 E 110th St., N. Y.
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Welch Bros., 226 Devonshire St., Boston.
Winterson, E. F. Co., 45-49 Wabash, Chicago.
Young, C. & Sons, 1406 Olive St., St. Louis.
Young & Nugent, 42 W. 28th St., New York.
Zech & Mann, 51 Wabash Ave., Chicago.

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Bassett & Washburn, 76-78 Wabash, Chicago.
Benthey-Coatsworth Co., The, 35 Randolph St., Chicago.
Bruns, H. N., 1409-11 W. Madison, Chicago.
Budlong, J. A., 37-39 Randolph St., Chicago.
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Hill, The E. G. Co., Richmond, Ind.
Jensen & Dekema, 674 W. Foster Ave., Chicago.
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Poehlmann Bros., 35-37 Randolph, Chicago.
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Chicago—Hauswirth, Florist, Auditorium Annex.
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Colorado Springs, Colo.—Frank F. Crump.
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Denver, Colo.—The Park Floral Co.
Detroit, Mich.—John Breitmeyer's Sons, cor. Miami and Gratiot Aves.
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Indianapolis, Ind.—Bertermann Bros. Co., 241 Mass. Ave.
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Louisville, Ky.—J. Schultz, 644 4th Ave.
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Toronto, Ont.—Dunlop's, 96 Yonge St.
Washington, D. C.—Z. D. Blackistone, 14th and H Sts.
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Boilers, the Burnham boilers, made for greenhouse heating. Lord & Burnham Co., 1133 Broadway, New York.

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Fans, Sirocco, American Blower Co., Dept. A. F., Detroit, Mich.

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Glass. High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

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Glass, greenhouse, all sizes. H. M. Hooker Co., 120-123 W. Washington St., Chicago.

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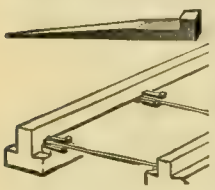

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There was some joking as to how it happened that an English couple were married in England on July 4, the great American holiday. Souvenir cards of white with gold figures marking the dates, 1849-1909, with a white rose tied with white ribbons, were presented each guest and every one inscribed his name in the pretty guest book, 1849-1909, which will afford pleasure in the years that are to come. The bride of 60 summers was radiant with happiness and delighted in showing many of the treasures that she had brought with her from her native country; the silver and china that had been donated on their wedding day were on exhibition and much of the local and personal history of this locality was reviewed by the assemblage of old time neighbors and friends.

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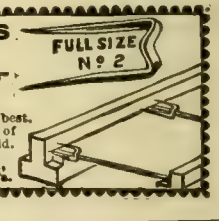
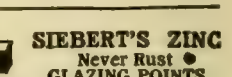
See the Point
PEERLESS
Glazing Points are the best.
No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.



Lock the door before the horse is stolen, and insure your glass before it is broken.

For particulars concerning Hail Insurance, address

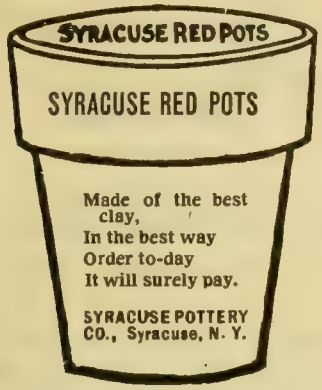
JOHN G. ESLER, Secretary
SADDLE RIVER, N. J.



SIEBERT'S ZINC Never Rust GLAZING POINTS

Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes 5/8 and 7/8, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.



Standard Flower Pots!

Packed in small crates, easy to handle.

		Price per crate			Price per crate
1500	2-in.,	in crate, $4.88	144	6-in.,	in crate, $3.16
1500	2¼	" 5.25	120	7	" 4.20
1500	2½	" 6.00	60	8	" 3.00
1000	3	" 5.00	HAND MADE		
800	3½	" 5.80	48	9-in.,	in crate, $3.60
500	4	" 4.50	48	10	" 4.80
456	4½	" 5.24	24	11	" 3.60
320	5	" 4.51	24	12	" 4.80
210	5½	" 3.78	12	14	" 4.80
			6	16	" 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.
or AUGUST ROLKER & SONS, New York Agents.
31 Barclay Street, New York City.

Hyacinth Glasses

BEST AND CHEAPEST IMPORTED.

Prices on application.

Special discount on original cases of 25 doz. assorted colors.

NICHOLAS WAPLER, 28 Warren St. NEW YORK.

GEO. KELLER & SON,

Manufacturers of

Red Pots

Before buying write for prices.
361-363 Herndon St.,
CHICAGO, ILL.

Standard Flower Pots

Porosity and Strength Unsurpassed.

Write for prices.

A. F. KOHR
1521 Leavitt St., CHICAGO.

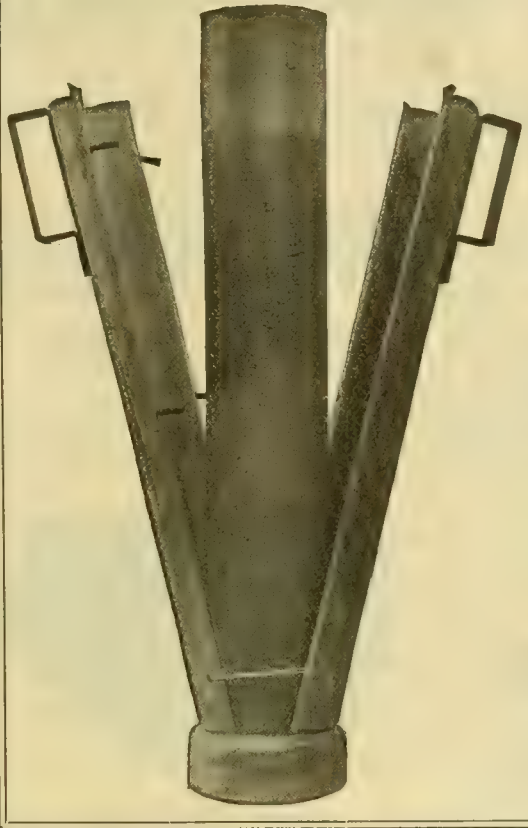
REED & KELLER,

122 W. 25th St., NEW YORK.

FLORISTS' SUPPLIES

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in **Glassware, Pottery, Decorative Greens** and **all Florists' Requisites.**

Windler's Clamp Casing



A casing made of galvanized iron

IN TWO PARTS

when bolted together

ONTO POSTS

it serves to hold cross pieces for temporary bench doing away with all superfluous pegs, posts and props.

For Booklet Write to

GEO. B. WINDLER,
4059 Delore Avenue,
ST. LOUIS, MO.

MISSION PLANT BOXES.

Are the best and cheapest plant boxes in the market for large plants, boxwoods, bay trees, etc. They are attractive in design, strong and durable. Suitable for either outdoor or indoor use. Write for prices.

WAGNER PARK CONSERVATORIES, Sidney, Ohio.

Kramer's Pot Hangers

For Sale by Wholesale Seedsmen, Florists and Supply Dealers.
Price, $1.00 per dozen by express. Sample dozen by mail, $1.25.

I. N. Kramer & Son, CEDAR RAPIDS IOWA.

Florist's Red Pots

OF FINELY PREPARED CLAY.

Process and catalogue sent on request.

The Peters & Reed Pottery Co., ZANESVILLE OHIO.

SCOLLAY'S

Plant Sprinkler
Putty Bulb.

VAUGHAN'S SEED STORE, CHICAGO NEW YORK

Those Red Pots

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS,
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'F'Y.
HARRY BALSLEY, Rep. DETRIOT, MICH. 490 Howard St

H. BAYERSDORFER & CO.,

Florists' Supplies.

1129 Arch Street, PHILADELPHIA, PA
Send for our new catalogue.

Send Advertisements Early for Best Display.

To the man who needs a Boiler

THE KROESCHELL BOILER

was installed to heat over six million (6,000,000) square feet of glass during the past three years.

Expressions from the Men Who Know:

Used steam: was advised to change to your hot water boiler. Find it about half the work with your boiler. We would have no other.
STERNITZKE BROS., Park Ridge, Ill.

Have handled many greenhouse boilers of other makes but Kroeschell beats them all. I get perfect circulation in 30 minutes.
WM. OTTO, Oshkosh, Wis.

Former boiler, 16 horse power steam; as much difference as between day and night. Your boiler does not need recommendation. Will recommend itself wherever used.
THEO. F. DAMEROW, Grosse Pointe Mich

Your boiler, in our estimation, is the best in use today. We have two of them.
POTTER & SONS, Waukegan, Ill.

When we rebuilt our plant we were undecided whether to use your boiler or a cast iron boiler We are satisfied we made no mistake in using Kroeschell.
YEATMAN & WAY, Kennett Square, Pa.

Have fired greenhouse boilers since 1885, both steam and hot water. Yours suits me the best. I have two of your boilers. At one time I had two cast iron boilers working together and during a blizzard the rear section of one boiler gave out and the front section of the other sprung a crack a couple of months later. No more cast iron boilers for me. I came very close to freezing out in both instances. G. M. THOST, De Soto, Mo.

The Kroeschell Generator

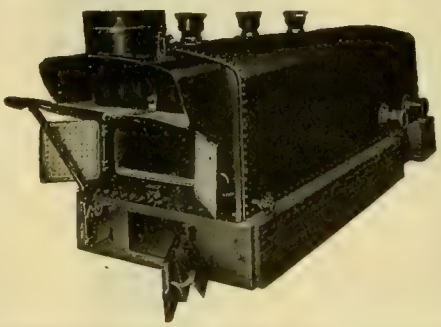
prevents boiling over, cures sluggish circulation, saves fuel, smaller mains can be used, water can be heated to 240° without boiling, increases circulation, 3 to 5 times faster; no hot water system complete without it.

HAVE YOU EVER INVESTIGATED

the one sure thing

KROESCHELL BOILERS

See the simplicity of construction. Plate material, **NOT CAST IRON.** Long fire travel, thin water ways. **The best and the most heating surface in the world for the money.**



THE KROESCHELL BOILER will give you more heat with the same piping required by other boilers, and with less fuel.

Send for our catalogue.

KROESCHELL BROS CO.

45 Erie St., CHICAGO.

THE KROESCHELL BOILER

replaced 1,346 cast iron boilers in 1905, 1906, 1907 and many in 1908.

Expressions from the Men Who Know:

We are very well pleased with your boiler. I have had fourteen years' experience in heating, six with gravity steam and eight with vacuum but give me the hot water system for all purposes. Use me for references any time.
E. LIGHTHISER & SON, Xenia, O.

Have used upright boilers, tubular boilers and cast iron boilers. Your boiler heats up better and easier than any boiler we have ever had anothing to do with. If we ever buy another boiler, it will certainly be a Kroeschell. POOLE & PURLLANT, Washington C. H., O.

I have fired boilers both here and in Europe for the last forty years. The Kroeschell is the best type of boiler I have ever used. I have two cast iron boilers, also a locomotive boiler, coupled with yours, but did not need to use the cast iron boilers this winter. Your No. 7 boiler is rated at 15 000 sq ft. of glass and carries 25.000 sq. ft. of glass until the outside temperature goes down to 10° of frost We have no trouble to keep temperatures in our houses with easy firing since we installed your boiler. The main flows and returns are heating our potting shed and packing room which are not included in the amount of square feet of glass. From the boiler to the farthest end of our violet houses and return is 800 ft. and circulates very quickly.
THE SALTFORD FLOWER SHOP,
Wm. D. Saltford, Pres
Poughkeepsie, N. Y.

THE KROESCHELL PIPING SYSTEM

is being installed by many progressive florists. $1\frac{1}{4}$, $1\frac{1}{2}$ or 2-in. threaded pipe, or 4-in. tubing, is used. Boiler can be set on level with greenhouse walks. You do not need deep boiler pits.

Manchester, Mass.

The North Shore Horticultural Society gave its first rose show June 31 and a magnificent exhibition of roses, herbaceous plants, fruits and vegetables was the result of its labors. Mrs. James McMillan (F. F. Brosch, gardener) showed some 40 varieties of roses and 15 varieties of sweet peas, taking first prize on each for the best collections.

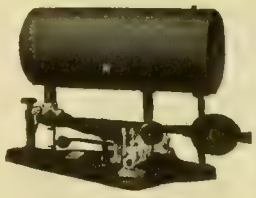
There was a splendid collection of garden grown roses, 3 blooms each variety, the prize being the Eagle Head silver cup, and was won by Wm. Swan. Hon. T. Jefferson Coolidge (Wm. Till, gardener) had a collection of roses, one of the finest in variety and color. Mrs. George E. Cabot (Patrick Corrigan, gardener) secured the gold medal for best table, showing a fine collection of hybrid tea, perpetual and rambler roses. For the best table arranged for effect Mrs. H. L. Higginson (James Scott, gardener) was awarded a gold medal.

The first prize for best display of hardy perennials went to Mrs. H. L. Higginson. A silver cup offered by the Blue Hill Nurseries for best collection of hardy perennials was awarded to Wm. Swan, who also won a silver cup for best group of flowering plants. Mr. Swan also took the Highwood silver cup for best collection of delphiniums and becomes its owner, having won it two years in succession. Geo. R. White (Frank Gavin, gardener) also had a fine show of these flowers. A magnificent group of foliage and flowering plants, a mound ten feet high, was shown by Mrs. Lester Leland and won a silver cup.

The Blue Hill Nurseries took the society's gold medal for best collection of hardy herbaceous flowers. A new crested Scottl fern was shown by H. A. Dreer Co., and Julius Roehrs Co. of Rutherford, N. J., made a splendid display of orchids. They were given a certificate. There were two tables of wild flowers by children, Hammond Tracy taking first prize and Donald Crafts second.

CAMBRIDGE, MASS.—While he is erecting a building for his business John McKenzie will conduct it from his greenhouses, which are located on Whittemore street, North Cambridge Junction.

Cut Down Expenses



USE **MOREHEAD**

Return Steam Traps

KALAMAZOO, MICH., July 7, 1908.

MOREHEAD MFG. CO., Detroit, Mich.
Dear Sirs:—If your trap cost ten times what you ask for it, it would be cheap when time, labor and cost of repairs are considered, in comparison with the steam pump I had installed before getting your trap.
I cannot praise it too highly and I recommend it to everybody who talks steam.
Yours truly, (Signed) F. W. MEYERS, Prop. Riverside Greenhouses.

Catalogue on request.

MOREHEAD MFG. CO., 1047 Grand River Avenue, Detroit, Mich.

Tobacco Paper IS THE STRONGEST BEST PACKED EASIEST APPLIED

24 sheets.....$ 0.75
144 sheets..... 3.50
288 sheets..... 6.50
1728 sheets..... 35.10

"NICO-FUME" LIQUID

ONER 40% NICOTINE.

Furnishes the

Most Nicotine for the Money!

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Louisville Ky.

By far the CHEAPEST JUST NOTE PRICES

Pint.....$ 1.50
½ Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

WIZARD BRAND MANURES

TRADE MARK

Dried, screened and packed in bags of 100 lbs. each

PULVERIZED SHEEP MANURE

Pure - Uniform - Reliable

A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

Ask your supply man or write for circulars and prices.

The Pulverized Manure Co.,

32 Union Stock Yards, CHICAGO

Mention the American Florist when writing

THE BEST Bug Killer and Bloom Saver

For PROOF Write to

P. R. PALETHORPE COMPANY,

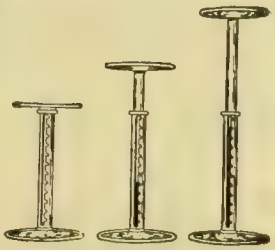
OWENSBORO, KY.

Fresh Tobacco Stems,

$1.50 for 300 lbs.

W. C. BECKERT,

North Side, PITTSBURG, PA



The Moore-Livingston Plant Stands.

Use These in Your Decorations

With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

Write or wire us if unable to obtain the stands locally.

The Moore-Livingston Co., Makers, Patentees, **Lansdowne, Pa.**

PHILADELPHIA OFFICE:

Central Trust Building, 4th and Market Streets, Philadelphia, Pa.

Sterling Iron Reservoir Vases

Chairs, Settees, Hitching Posts, Etc.

Complete Catalogue and Discounts Upon Request.

The Sterling Emery Wheel Mfg. Co., TIFFIN, OHIO, U. S. A.

Wittbold Watering System

The saving in time and labor for one season will pay for a complete equipment.

For particulars write to

E. H. HUNT

76-78 Wabash Ave., CHICAGO

Carman's Antipest

INSECTICIDE AND FUNGICIDE

For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

PERFECTION CHEMICAL CO.,

FLUSHING, N. Y.

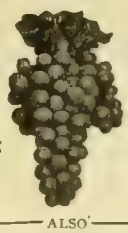
Has stood the test of over a Quarter of a Century.

THOMSON'S

Vine, Plant and Vegetable

MANURE

UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



The result of many years practical experience.

PERFECT PLANT FOODS

Sold by Leading American Seedsmen.

ALSO

Thomson's Special Chrysanthemum and Topdressing Manure.

Freight paid on quantities. Write for our special offer to the American trade, pamphlets, agents' circulars, etc., to sole makers,

WM. THOMSON & SONS, Ltd.,

Tweed Vineyard, Clovenfords, Scotland

"Natural Guano" PULVERIZED SHEEP MANURE

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quick acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill.

LIMA, O.—H. Mueller, who was formerly gardener for Alex. McDonald, Cincinnati, but is now in business at the Hillside Greenhouses, reports trade as good in bedding plants and cut flowers this season. He is well satisfied with his first years' business.

WILKS'
Hot Water Boilers
ARE THE MOST ECONOMICAL
Boiler for Greenhouses
No Night Fireman Required with our
Self-Feeding Hot Water Boilers.
Send for Catalog and Prices.
S. WILKS MFG. CO.,
3525 Shields Ave. CHICAGO

THE
Advance Machine
Pleases our customers or we could not sell 68 machines to one florist; 38, 37, 34 32, 25 24, 17, 16 machines to as many other florists. We give them better service than anything they had before. All we need is a trial order to convince you that we have the best machine on the market. Our prices are in plain figures. Free estimates for the asking.
THE ADVANCE CO.,
RICHMOND, IND.

THE ART OF
Floral..... Arrangement.
The first special newspaper in the world for floral arrangement.
250 ILLUSTRATIONS ANNUALLY.
Specimen number free.
Subscription, $2.40 yearly.
BINDEKUNST-VERLAG,
J. Olbertz, ERFURT, GERMANY

Drought in New Jersey.

According to reports received by the State Board of Agriculture and the statement of Francis B. Lee, of Trenton, N. J., who has just returned from a trip to nearly every county, New Jersey is fast drying up in one of the worst droughts that has been known for years. Unless there is rain within a few days there will be great loss and suffering. There has been no general rain for six weeks, and the few local showers that have fallen have brought little relief.

Mr. Lee cites as a result of the drought the burning this week of three hundred acres of cranberry bogs, valued at $30,000, belonging to Joseph White, of Hanover, Burlington county. In an ordinary season these bogs would be so wet that there would be no possibility of fire in them.

Swamp huckleberries will hardly show half a crop. All farm crops are suffering. Blackberries, raspberries and potatoes are drying up, field corn is stunted and all vegetables are so backward that merchants are raising prices. In many places hay is selling at the winter price of from $18 to $20 per ton. Peaches, apples and other fruits are suffering, and tomatoes for canning will be scarce. Wells are giving out.

CEMENT POSTS
For Your Benches.

It makes no difference whether you build wood or cement benches you are losing money unless you use the cement post. Its cheaper than wood and lasts for ever.
The Wittbold Post Mould
is the cheapest and quickest to operate. Get a few and try for yourself.
Ask for Free Booklet that tells you how to build cement benches.

E. H. HUNT, 76-78 Wabash Ave. CHICAGO.

A WIRELESS MESSAGE
IF YOU WANT
BUY FROM PHIL FOLEY
WHO RUNS THE FACTORY
IN THE CITY OF CHICAGO.
YOU WILL WEAR A SMILE
CAUSED BY PROFITS
FROM CROPS
GROWN IN HOUSES
BIG
RESULTS
WESTERN, ARTESIAN AND CAMPBELL AVS.
25TH TO 26TH STS.
CHICAGO
BUY YOUR BUILDING MATERIAL WOOD IRON GLASS FROM FOLEY

OFFICIAL S. A. F.
Shipping Labels

Actual size of leaf 2¾ x 5¼ inches.
FOR CUT FLOWERS: in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Price: Per 500, $2.85, per 1000 $4.50. Samples on request. Electro of leaf, postpaid, $1.25. Cash with order.
AMERICAN FLORIST CO.
324 Dearborn St., CHICAGO.

The Delaware river is the lowest it has been in years. Between Trenton and Rahway nine wheatfields have been burned by sparks from railroad locomotives. The fire warden service is all that is preventing disastrous fires in the pine lands of the lower counties. —New York Herald.

URBANA, ILL.—Arno H. Nehrling has been appointed assistant in floriculture at the Agricultural Experiment Station. His work will be chiefly experiments with carnations under the direction of H. B. Dorner. Mr. Nehrling has arrived and taken up his work.

The Burnham

Each Section
TESTED WHEN MADE.
They are given a high pressure test. Any leaks or flaws must then and there show up.

Every Boiler
TESTED BEFORE SHIPMENT.
They are completely set up as for use, a thorough test applied to insure the tightness of all joints, and that there shall be no missing parts. The boiler is then bound to be perfect before leaving our factory.
Lord & Burnham Co.

Wired Toothpicks
10,000, $1.75; 50,000, $7.50. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample free. For sale by dealers

KENDALLVILLE, IND.—Amos Johnson of the Johnson Floral Co. has been suffering much pain owing to a large splinter of wood entering his eye. It has been removed and it is thought that no serious injury has been done.

The Burnham

Hot Water

Made for caulked joints in 18 and 30 inch sizes. For tapped joints, in all sizes from four to ten sections. In height from 50½ inches to 75 inches, with a heating area of from 1,850 square feet to 27,600 square feet.

Steam

Made for tapped joints—can be enlarged from four to ten sections—stand from 54⅜ inches to 81¾ inches high. Have a heating area of from 1,850 square feet to 27,600 square feet.

Send for our Boiler Catalog. It tells you just what Burnham Boilers will do and why they do it.

IRVINGTON, N. Y.

NEW YORK. PHILADELPHIA.
BOSTON. CHICAGO.

CLEVELAND, O.—H. B. Jones and Charles E. Russell will open a store October 1 at the corner of Euclid avenue and Huron road.

MARQUETTE, MICH.—The Sorensen Greenhouses, until recently known as the Stafford Greenhouses, last week moved their down-town store from the Mack block into another building which has been thoroughly renovated and repainted, and the new store will be one of the most attractive and convenient flower sales rooms in the upper peninsula. The interior decorations are in white throughout, trimmed with gold. One side of the store is to be fitted up with a public writing desk.

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order. We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

A Few Special Boiler Bargains.

7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old: 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Helbe** water tube boilers with Oliver patent grates: 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler, 60 horse power, 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted: ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers: also coal and ash handling apparatus for these boilers.

Greenhouse Boilers

A complete line of locomotive, fire box boilers, Kroeschell Greenhouse boilers, Return tubular boilers, Cast Iron Sectional boilers, etc.; some are rebuilt, some brand new, but all are in first-class condition for further service.

1—150 horse power fire box boiler.

Good for 60 lbs. pressure. Free from patches, bulges or blisters.

Complete with all fittings.

We want to move this boiler quick and quote a special price of..... **$500.**

Boiler Flues! Fitted with special threads and couplings. Can be used same as threaded pipe and fitted with calked joint greenhouse fittings at the end of the run. These flues have the same strength as wrought iron pipe and are offered at about half the price. Any size desired.

6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes; 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

HOT BED SASH at EXTRAORDINARY LOW PRICES.

BOILER TUBES. 20 carloads of 4-in. Boiler tubes in perfect condition. They are just the thing for heating purposes or for retubing boilers. Other sizes can be furnished at specially low prices. Write for complete list.

5 carloads of Boiler tubes, 2 to 6 inches inclusive, also tubes with threaded ends. Get our prices on pipe, valves and fittings: we can save you money. Greenhouse fittings at half price.

CYPRESS LUMBER AND LUMBER OF ALL KINDS.

Write for Prices.

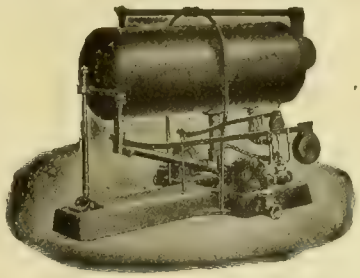
SPECIAL PAMPHLET OF GREENHOUSE HEATING FREE!

Mailed free to all who request a copy: greatest book of bargains ever published contains merchandise of every description at prices that save you 30 to 75 per cent. **Ask for Our Latest 500-page Catalogue No. 47.** It is the greatest book of bargains ever issued. Send for it to-day. You save 30 to 50% by dealing with us.

CHICAGO HOUSE WRECKING CO., 35th and Iron Streets CHICAGO.

INSTALL A :: :: **"DETROIT" Return Trap**

And You Buy a Guarantee.



"Detroit" Return Trap. (Patented)

It takes 90 to 120 lbs of steam per horsepower to operate an ordinary boiler feed pump. **"Detroit" Return Traps** require only about one-tenth that amount. Why not save the nine-tenths?

Write us the size of boiler and number of square feet of glass, for our price.

AMERICAN BLOWER COMPANY

Dept. A. F. DETROIT, MICH.

CHRIS. PFEIFFER BOILER CO.,

66-68 Michigan Street, CHICAGO.

We build a special steel hot water boiler shipped ready for operation. No brick required.

Phones; Main 4361. 4399.

Steel Return Tubular Boilers

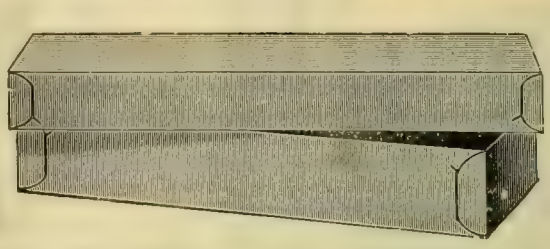
The Most Economical Type of Boiler for Greenhouse Heating. Highly recommended by well-known florists.

JOHNSTON HEATING CO., 138 E. 31st St., NEW YORK.

The Lion's Share

of this

OFFER



Goes to You

During the summer months we want to overcome the summer dullness and these prices ought to do it.

How Many?

OLIVE GREEN BOXES

For Cut Flowers				Per 100
18x5x3	half	telescope	covers	$2 00
21x5x3	"	"	"	2 25
21x6x3½	"	"	"	2 35
24x5x3½	"	"	"	2 75
24x8x4	"	"	"	3 50
28x8x4	full	"	"	4 00
30x6x3½	"	"	"	3 75
36x8x5	"	"	"	7 50
42x8x6	"	"	"	9 50

For Sprays and Designs.	Per 100
30x10x6	$ 8 50
36x11x7	11 50
48x11x7	15 00
16x16x8	10 50
18x18x8	11 65
20x20x8	13 25
24x24x8	16 50
20x16x8	12 25
24x20x8	15 25
26x17x8	15 00

PLEASE NOTE WHEN ORDERING: These quotations are without printing. The cost of printing is $2.00 on orders from 500 to 1000 and $1.00 for each additional 1000. Buy now while sizes are complete. 5% cash with order or 60 days net on satisfactory reference.

C. C. Pollworth Co., Milwaukee.

Indianapolis.

CARNATIONS SCARCE.

Business was exceptionally slow during the past week. The retailers have had time hanging heavily on their hands and those who attended the market also complained of the lull in trade. Carnations are becoming quite scarce and the price naturally is advancing. Asters made their first appearance on the Saturday market. A good crop of this flower is promised by the local growers. Sweet peas are in great plenty now but do not move well in the stores.

NOTES.

The Indianapolis Plant & Flower Co. (Hasselmann's) has over 50,000 carnations in the field. Even though all of them appear to be in the best of condition, Mr. Hasselmann says that he expects to bring in only about a third of the best ones the middle of August.

The State Florists' Association had a meeting scheduled for last Wednesday in the horticultural room of the state house, but as only three of the members put in an appearance there was not the necessary quorum for the transaction of business.

W. W. Woolen, a lawyer by profession and practice, and a grower for recreation and pastime, is enthusiastic over the prospects of his gladioli and dahlias. He has several acres of each at his rustic and picturesque place called "Crow's Nest."

August Grande, who has been suffering with an attack of asthma, is now able to be outdoors, although as yet he has not been able to resume his business activities.

A. J. Pittett, a grower in the vicinity of Riverside park, is completing his second house, 30x200 feet. He expects to grow roses and carnations in this new structure.

Al Ruble, of Maywood, has completed another greenhouse in which he intends to grow carnations exclusively.

George Wiegand, of the firm A. Wiegand & Sons, met with a Fourth of July accident to his nose and has been wearing same in a sling ever since.

Mrs. E. A. Nelson is reported to be convalescent after a three weeks' illness.

A. W. B.

WESTFIELD, N. J.—Chas. Doerrer is erecting a 33x150-foot steel greenhouse for general stock. A new Kroeschell boiler will be installed.

We can supply in any size or length and in carloads or any quantity

PECKY CYPRESS

The Ideal Lumber for Greenhouse Benches.

MOST LASTING. LEAST EXPENSIVE.

When ordering your other building materia is wise to add enough **Pecky Cypress** to make the shipment a carlot and so take advantage of lower carload freight rates.

WRITE TO US FOR PRICES.

THE FOLEY MFG. CO., 26th and Western Ave., **Chicago**

Use our patent Iron Bench Fittings and Roof Supports.

THE JENNINGS IMPROVED IRON GUTTER.

IMPROVED VAPORIZING PANS

For Tobacco Extracts, etc. Send for Circulars.

DILLER, CASKEY & KEEN,

S. W. Corner Sixth and Berk Streets PHILADELPHIA.

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Florists' Novelties.

Manufacturer and Patentee of the **Perfect Adjustable Pot Handle** or **Hanger, Perfect Adjustable Plant Stands** and the **Original Genuine Immortelle Lettter, etc.**

Every letter marked.

1164-66 Greene Ave., BROOKLYN, N. Y.

For Sale by All Supply Houses.

BASKET OF SINGLE DAHLIAS.

THE AMERICAN FLORIST

America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XXXII. CHICAGO AND NEW YORK, JULY 24, 1909. No. 1103

THE AMERICAN FLORIST

TWENTY-FOURTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—J. A. VALENTINE, Denver, Colo.; Pres.; E. G. GILLETT, Cincinnati, O., Vice-Pres.; W. N. RUDD, Morgan Park, Ill., Sec'y; H. B. BEATTY, Pittsburg, Pa., Treas. Next meeting at Cincinnati, O., August 17-20, 1909.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

Annual meeting, August 9, 10, 11, 1909 in Seattle, Wash., and August 12 in Tacoma, Wash. JOHN W. DUNCAN, Boston, Mass., President; F. L. MULFORD, Harrisburg, Pa., Secy.-Treas.

CHRYSANTHEMUM SOCIETY OF AMERICA

Annual convention and exhibition, November, 1909. ELMER D. SMITH, Adrian, Mich., President; C. W. JOHNSON, 918 Kishwaukee St., Rockford, Ill., Secretary.

THE AMERICAN CARNATION SOCIETY.

Next annual convention and exhibition at Pittsburg, Pa., January 1910. ALBERT M. HERR, Lancaster, Pa., President; A. F. J. BAUR Thirty-eighth St. and Senate Ave., Indianapolis, Ind., Secretary.

Our Supplements.

Subscribers should see that they get copies of the fine supplementary illustrations showing high grade design and decorative work. These fine supplements appear with each issue and should be carefully preserved, as they mean much to the retail florists in dealing with their customers, illustrating as they do the various kinds of work that the everyday florist is called upon to perform.

The papers in which the supplements appear should be likewise preserved, as they contain much valuable data with regard to these special illustrations. Subscribers should see that they get every issue as otherwise they may miss some of this high grade work.

SUGGESTIONS FOR PLANT GROWERS.

Hydrangeas.

The earliest rooted hydrangeas will be nice plants now and in order to properly harden up the growth they should go outdoors under a light shade. Plunge the pots in ashes or some other loose material and spray the leaves regularly; a lath house is an excellent place for them. Older plants that were cut back after flowering will probably need a little longer growth but very soon now the shoots on all the plants will be finishing, the buds will appear in the ends of them and all that is necessary is to prepare them by degrees for their winter's rest. Upon thorough ripening of the wood and keeping them from exciting conditions from now on a good deal depends.

Crotons.

We often see crotons growing in shady houses and frames, but this is not the place for them. If the proper amount of atmospheric moisture is kept up at all times and the plants well looked after for root moisture then it is almost impossible for them to have too much sun. The buoyant atmosphere that is caused by the sun striking surfaces such as floors and benches kept constantly moist is that which suits these heat and light loving subjects and brings out the color in all the finest varieties. Young stock raised from cuttings recently and not properly established in the pots has to have some shade over it but the less used the better provided the plants do not wilt. Never keep the young cuttings in the propagating boxes longer than is necessary for them to become well rooted, as the moist heat weakens the leaves at the axils and causes them to drop later when the plants are taken to the rather drier and lighter growing quarters.

Easter Lilies.

The arrival of the first consignments of Easter lilies shows how the season is advancing. Although probably few of the first arrivals are grown as pot plants yet there are always some needed early and the sooner the bulbs are in their pots the better. A layer of dried cow manure, broken into lumps and placed over the bottom of the pots to the depth of an inch or so, will be of great assistance to the bulbs later, when they root down to it. Use a good, loamy soil and select the bulbs for size using the largest and heaviest bulbs in 5-inch pots, the smaller in 4-inch. After potting stand the pots on a level bottom outside and give a thorough watering, enough to reach the bottom of the soil in the pots. Stand them in the full sun and cover the pots with a light mulch of loose litter to prevent the surface drying out too rapidly. About two months is necessary for the bulbs to root thoroughly and be fit for forcing though it frequently happens that, if cold storage stock has run out, they are needed before. Bulbs potted in August may be used for forcing in October, or a little earlier if really necessary. The bulbs now coming in are of the green stemmed variety L. Harrisii.

Begonia Gloire de Lorraine.

The growing season for this important plant will soon begin in earnest and the young stock should be transferred to 4-inch pots and stood on a cool bottom of gravel or coal ashes on the side stages in a narrow span-roofed house, if such is at command. It is not well to try and hurry the plants; they will grow fast enough. Shade the roof so that while plenty of light is admitted the direct rays of the sun are broken. Should flowers appear in the shoots pinch them out and do everything possible to maintain a free and vigorous growth. The temperature by day in hot weather is hardly at the growers command and the only thing to do, in addition to the shading, is to allow plenty of air, damp the stages and between the plants freely and keep up a genial growing atmosphere. A night temperature of 60°, or as near this as possible, should be maintained. The soil for potting should be of a medium or light texture, a good addition of leaf mould being advisable if the staple is at all heavy.

Pelargoniums.

There is a certain degree of ripeness or hardness in the growth of pelargoniums that is well known to experienced growers as the proper stage for cutting back the plants and inserting the cuttings. Green and soft as they come from the houses after flowering they are not as good, while on the other hand they must not be dried too much or the cuttings will take longer to root. It is not easy to describe this but the base of the new growth should be a light brown, firm, yet not hard and woody. Although we are aware that many growers do not agree with us on this point we have always found that pelargoniums root more freely and surely from this class of wood outdoors in the full sun than anywhere else. They should be inserted in flats, labeled and thoroughly soaked with water and kept wet until rooted. If they are allowed to get dry they will not be satisfactory but keep them always wet and practically every cutting will root. The old plants must be kept on the dry side after being cut back and in the full sun and air. They must remain in the pots until new growth starts when they should be shaken clear of the soil, the strongest roots cut back and repotted into smaller pots.

Cyclamens.

The time for sowing cyclamen seed will soon be here again and growers should obtain it if not already in stock. Although cyclamen seed is comparatively high priced, nothing is gained by purchasing or using a cheaper article for so much depends upon getting good varieties. These are now offered separately and in mixture and a reputable seed house should be chosen for although the cyclamen has been greatly improved of late years there is still a lot of rubbish on the market and it is best to be on the safe side and not waste a season. The old plants saved from last season are now making a fine growth in the frames and those that were shaken out and repotted in small pots will soon be ready to again go into their flowering pots. The young stock too is growing freely and must be encouraged. A shady frame or house with ample air at all times are the conditions for cyclamens now and any plants that are ready for repotting should have attention. The routine work consists of damping freely between the pots and watering with care at the roots. Keep a close watch for thrips and other insects and give several light fumigations if any appear. Avoid sprinkling the plants overhead much but always maintain a moist atmosphere.

Sweet Peas in England.

These are indeed late; looking round the grounds of R. H. Bath, Ltd., Wisbech, on July 3, only the first one or two trusses were in bloom. These are well done by this firm, a new quarter each year. Owing to the rains more weeds than is usual were to be seen, but the men with the hand hoe were busy. Between each row were cauliflowers, this firm doing a very extensive trade for pickling. The sweet peas are grown between wire netting, no sticks. S.

THE RETAIL TRADE

ANY arrangement in which water, and plenty of it, is used in the window is sure to be attractive these hot days.

KEEP the store cool and avoid heavily scented flowers as much as possible. White and green are the coolest and most refreshing colors.

Sprinkling Roses and Carnations.

ED. AMERICAN FLORIST:—

Is it best to sprinkle roses and carnations in an icebox?

AN OLD SUBSCRIBER.

Roses may be sprinkled with advantage but never sprinkle carnations.

Church Wedding Decorations.

SEE SUPPLEMENT WITH THIS ISSUE

Church weddings provide great scope for ingenuity and taste on the part of the decorator. The noble yet simple style of architecture in many of these sacred structures lends itself readily to decoration by the florist and shows off the fine contour of large palms and similar plants, while smilax or other festooning has a beautiful effect about the arches and pillars if well carried out. There are some flowers that seem to be singularly appropriate to church decoration. Among these may be specially noted the Easter lily in its many varieties and the even more lovely Madonna lily, Lilium candidum. For purity and grace nothing in the whole range of cut flowers can equal the latter, though the eucharis, a flower that is not as much used as formerly, comes very near to it.

Ministers of various denominations have often their own views on the subject of how their churches should be decorated, and the florist in all cases will find it to his advantage to ascertain whether the incumbent of the church has any objection to any class of work ordered by his customers. Naturally, the customer will, in most cases, be sure of his ground in regard to this before giving his order, but the florist should make sure of this before commencing. Another point of great importance is to see that, whatever scheme of decoration is decided upon, the utmost care is taken not to injure the fabric of the church in any way by driving nails or anything else into the walls, pillars or woodwork. Plenty of string, that can easily be hidden when carrying out the work, must be used and wooden rods covered with green are often useful. Flowers may be fastened to these in any desired position for use on the edges of platforms, on rails, or in any other similar place, the rods being simply placed in position and secured at either end in a manner most suited to the occasion.

The decorations will largely depend upon the amount to be spent and may be very elaborate or very simple. In some recent decorations the petals of of Killarney roses were strewn from the church door to the improvised platform where the service was conducted, prettily dressed flower girls opening the gates to the bride and groom at the end of their floral path. Pulpit, chancel and pew and choir stall ends give opportunities for fine floral effects, bunches of lilies, roses or other flowers often being used with ribbon streamers. Pretty effects in the chancel are often worked out with rambler roses when these are in season; when they are not with southern smilax and cut roses. Tall vases of Easter lilies are always imposing and good, smaller ones being used to grace the altar table. In short, there is room for abundant display of the best of the florist's art in this class of work, and as these interesting occasions are now timely, retailers should be out for the work with circulars, by displaying designs and in other ways.

AT THE WASHINGTON AUTOMOBILE PARADE, JULY 5.

Winner of $50 Loving Cup, by Marche & Co.—See Last Issue, Page 1259.

Store Pointers.

It is all right to have wreath frames mossed firmly so that the flowers do not slip about in them but the risk is usually the other way round; they are made so tight that the stems are broken in getting the flowers in.

During the hot weather few choice greens last as well as the beautiful fronds of Nephrolepis Amerpohli and certainly no other is more attractive for use with choice flowers.

Wherever new wood is being used for alterations look out for dust. Pine and other light woods seem to exude it until painted or varnished.

Simplicity in designs well carried out is always to be admired, but an elaborate design badly carried out is bad from all points of view.

A good vase of cosmos is a cheap and telling feature in the window.

Wreath of Bay Leaves With Cycas.

Unusually artistic and effective was the little design (illustrated on page 1313) executed by the Geo. Wittbold Co., of Chicago, and laid on the casket of the lamented John Thorpe. It was only a wreath of bay leaves against a background of cycas with a bit of purple ribbon for color, but it is such simple affairs done by the master hand that count for so much and are so rarely seen. It stood out in marked contrast to the inevitable pillows of many colors and the like.

Cincinnati Convention Programme.

The preliminary programme of the Society of American Florists' twenty-fifth annual convention at Cincinnati, O., August 17-20, has been issued. The opening session on Tuesday will begin at 1:30 p. m. with an organ recital (each day's proceedings will open with music), followed by President Valentine's address, various reports and discussion and the judging of the trade exhibits. In the evening the president holds a reception, where he hopes to meet as many as can attend. He adds significantly that "formal dress is not expected, but that the most comfortable dress will be the most appropriate." Wednesday's session will consist of an illustrated lecture on "The Value of the Recent Work in Heredity to the Practical Flower Breeder," by Jesse B. Norton, Washington, D. C.; the selection of meeting place, nomination of officers, reports of judges and the annual meeting of the Ladies' S. A. F. "The National Flower Show, Past and Prospective," and an illustrated lecture on "Color Photography," by J. Horace McFarland, will be the subjects at the evening session.

On Thursday evening B. T. Galloway, of Washington, will speak on "Some Work of the Department of Agriculture as Affecting Floriculture," the officers for the ensuing year will be elected and an amendment to Article 4 of the by-laws will be considered. Thursday afternoon will be given up to bowling and other sports, and there will be meetings of the rose, carnation and sweet pea societies and the Florists' Hail Association. In the evening E. G. Hill, Richmond, Ind., will give a paper on "The First Meeting of the Society," while "What the Society Has Accomplished in Twenty-five Years" will be discussed by J. C. Vaughan. A list of those present at the first convention, which, it is interesting to note, was held in Music hall, the same place as selected for the twenty-fifth meeting, will be given. The programme also states that at that time John Thorpe, whose death it is our mournful duty to chronicle in this issue, was president, Robt. Craig vice-president, Myron A. Hunt treasurer and E. G. Hill secretary.

TRANSPORTATION.

Applications for special rates have been refused by all the traffic associations. The refusal is based on the statement that under the former rate of three cents per mile, the rate generally granted—one fare and one-third for the round trip—amounted to four cents per mile and under the new rate of two cents per mile generally in force the round trip without special granted, our members can attend the rates would be four cents per mile. That is, without any special rate convention as cheaply as formerly and be at liberty to go one way and return another, to stay as long as they please and be released from all annoyance of having their tickets deposited and signed. In addition to this, it is pointed out that special summer rates are in effect to all the large cities at very much reduced rates, so that members by purchasing tickets to cities like St. Louis, Chicago, Buffalo, New York and the like, and return at the reduced rates, and then joining the special parties from those cities, can often attend the convention at less rates than ever before.

FROM CHICAGO.

The Chicago delegation and all others desirous of joining it will leave Chicago August 16, afternoon or 12 p. m. midnight (it is as yet undecided which), via Monon R. R., by special train. Address: P. J. Foley, Twenty-sixth street and Western avenue, Chairman of Transportation Committee, for full particulars.

FROM NEW YORK.

The convention party will travel by N. Y. Central R. R. Address: John Young, Secretary, 51 West Twenty-eighth street, for full particulars.

FROM BUFFALO.

Address W. F. Kasting, 383 Ellicott street, Buffalo, for particulars.

FROM ST. LOUIS.

Address F. H. Meinhardt, 7041 Florissant avenue, St. Louis, State Vice-President, for particulars.

FROM KANSAS CITY.

Address W. L. Rock, 1116 Walnut street, Kansas City, State Vice-President, for full particlars.

FROM WASHINGTON, D. C.

Address W. F. Gude, 1214 F street, Washington, D. C.

AT THE WASHINGTON AUTOMOBILE PARADE, JULY 5.

Floral Umbrella by Geo. C. Shafter.—See Last Issue, Page 1259.

The Gibson House has been selected as headquarters. Requests for rooms or inquiries as to rates should be addressed to the Gibson House, Cincinnati, O. All rooms engaged in advance will be supplied with electric fans, without charge, if asked for when rooms are engaged.

THE TRADE EXHIBITION.

The trade exhibition will occupy two floors of the Music hall. Abundant space is available and perhaps no more advantageous location has ever been at the disposal of the society for its exhibition. This being the twenty-fifth meeting of the society and it being held in so central and accessible a point as Cincinnati, all indications are for a record-breaking attendance, and the value of an exhibit to those having horticultural products for sale can hardly be overestimated.

Growers of plants, seeds, bulbs, shrubs and trees, dealers in florists' supplies, greenhouse requisites, building material for greenhouse construction, heating apparatus, etc., can here meet the best buyers in the horticultural profession, and no better opportunity for directing attention to the special merits of their goods can be found.

N. B.—Exhibitors are reminded that the duties of the judges are limited to the consideration of and making of awards to novelties and improved devices only. Exhibitors are required to make previous entry of all such exhibits with the superintendent in writing. Full rules and regulations, together with diagrams of the exhibition hall, may be obtained from William Murphy, Superintendent, 311 Main street, Cincinnati.

CHRYSANTHEMUMS

ALWAYS keep some tobacco stems steeping in a tub for use when necessary.

THE earlier planted stock must now be freely watered all over the beds as the roots are spreading out.

TAKING the buds on some of the earlier varieties will soon be in order. Buds secured now will give good flowers in September.

The Chrysanthemums in July.

CULTURAL HINTS.

The majority of the plants are on the benches and the work from now on is looking after such details as watering, tying, weeding, removing laterals and keeping insect pests of all kinds in check. Watering is the most important matter, as it is never finished for more than a few hours at a time. Stock that was planted early and is now from one to three feet high will use up large quantities of water. It astonishes those unfamiliar with its needs how soon the soil will show signs of dryness.

With bright sun at this season the evaporation in itself is very rapid, and the plants are continually taking up atoms of moisture to sustain the foliage. The larger the plants or the greater the area of leaf surface, the more required to keep the foliage from wilting. Usually during midsummer the stock will require going over carefully two or three times a day, continually watching for the dry spots and, when detected, watering thoroughly; be sure the supply is sufficient to reach the bottom of the bench. Spraying over the foliage is very beneficial, but often leads to trouble unless the person in charge is considerate. The best way is to attend to the dry place first and then do the spraying. This work may be done under one operation by backing up along the bench, first watering the dry places, and then throwing the spray on the plants that have just been watered.

The tying should be attended to before the plants topple over. There are many ways to support them, such as stakes, wires stretched over the rows or strings tied top and bottom to wire, but usually the last mentioned is employed, using jute or binder twine, to which the plants are tied with raffia and fastened with a pliable copper wire. The weeding is best done by raking or rubbing the surface of the soil as soon as the weeds make their appearance, for if deferred it necessitates pulling by hand, which entails more labor. The laterals which push out at the joints or above each leaf should be removed when small, allowing one or more growths to continue, according to the number of blooms desired to each plant.

INSECTS.

Insects at this season are not so numerous, but some of them are very persistent and require constant attention. The aphides, both black and green, are most common and are so well understood that it is scarcely necessary to state the various forms of nicotine are the best remedies. Any of the manufactured forms as well as tobacco dust or fumigation with stems are effective and will keep them in check.

Red spider is not usually troublesome at this season if the plants have received frequent sprayings. It is well, however, to keep a close watch on the under side of the leaves and, when present, dislodge the insects by applying water with as much force as possible. If allowed to remain on the plants in any quantity they are apt to ruin the crop after steam is turned into the house.

As soon as the outside temperature requires the use of steam, it is also necessary to curtail the application of water and, under such conditions, with a drier atmosphere, insects increase very rapidly. Sometimes grasshoppers are so plentiful as to require considerable attention. Hand picking is the best remedy, and if this is done in the early part of the day when the intruders are most docile they are easily caught and disposed of. We have

Fig. 3.—Tarnished Plant Bug.

Figure in Left Corner is Natural Size.

lately noticed a few colonies of young caterpillars. In the young stage they confine their feeding to the leaf upon which they were hatched. They grow very fast and in a short time begin to wander to other quarters, greedily devouring the entire leaf. These are also best disposed of by hand picking.

THE TARNISHED PLANT BUG.

Another insect which gives the grower anxiety is the tarnished plant bug (Lygus pratensis); having referred to the pest on previous occasions, we will briefly state it is one of the sucking insects that draw sap from the tender growth. The violent wilting from this injury is the first warning of its presence. The insects are most prevalent in hot, dry weather; when abundant they continue their attacks, extending them to the lateral growths, as fast as put forth, until it is often difficult to retain a growth that is not blind.

They infest all kinds of plants outdoors, particularly asters, with the same disastrous results. In the young stage they are a greenish yellow, and when mature are brownish black, about ⅜ inch long. When disturbed the young will drop to the ground and the adults take wing to other plants. They are constantly on the alert and success in capturing them depends wholly upon the caution with which the approach is made. It does not seem as though the punctures of so small an insect would greatly impair a strong growing plant like the chrysanthemum, but nevertheless the continued attacks are very destructive.

The accompanying illustrations show the effect of their depredations upon the stem of this plant. The first and third sections shown in Fig. 1 are normal, the former being the top and the latter the bottom of the plant which developed before and after this insect was prevalent. The center section shows a portion of the same plant which in the soft state had been repeatedly punctured, causing the stem to become enlarged and the bark covered with wart-like eruptions.

The first section in Fig. 2 is normal, showing the bark, wood and pith in perfect condition. The second section shows the distortion of the bark and this, instead of having pith as in the normal section, was hollow. There seems to be few remedies that are effectual. X.L.All solution applied according to directions is said to be satisfactory, but it is effective only by contact, and hence it may be somewhat like Paddy's remedy for fleas. We have always depended on hand picking, but this method is far from satisfactory when the conditions are favorable to this pest.

ELMER D. SMITH.

Notes in Season.

There is plenty of work among the chrysanthemums to keep the grower busy most of the time these days. The early planted stock has attained a good size and should be staked and supported to enable the plants to receive benefit from the syringings. Removing the side growths also requires close attention, many of the plants setting a summer bud bringing with it numerous side shoots. It is important that these be removed as soon as large enough to properly handle so that the plants have plenty of time to make their best growth for the final buds. It is often puzzling to a beginner which of the top shoots to leave and which to remove. The formation of the top of the plants when they are forming a summer bud at this time consists of a center bud or growth and side growths at the axils of the leaves. The center bud at this time is worthless and should be removed. Either of the side shoots can be allowed to remain, they both being growth shoots, but a finer finished flower will result if the top shoot is cut away and the second one allowed to remain to go on into growth.

Keep the surface of the soil worked over occasionally to prevent its getting baked and to allow the air to penetrate into the soil to keep it sweet. The plants should be treated to sprayings of tobacco tea regularly to clean them of black and green aphis, also when giving the plants their daily syringings remember to apply the water well on the underside of the leaves to dislodge thrips and red spider. During this hot weather the plants will take considerable water and are greatly benefited by being syringed and the atmosphere of the house dampened two or three times a day. They like a good syringing about eight o'clock in the morning, another about noon, then again about four in the afternoon, and should be watered at the roots as they require it. Overwatering should be avoided, but it is equally detrimental to the plants' wellbeing for them to wilt for the want of it.

Any of the late varieties not planted yet should be attended to right away;

it is time that they were in the soil. These require a good light situation and the plants can be set six to seven inches apart in the beds. Any specimen exhibition plants being grown for the fall shows must not be neglected in any way; they should now be in their final pots. If this has not been done do not delay doing it any longer. Do not crowd the plants, but allow them ample room for spreading and for the air to work freely all around them. If any of the branches need supporting put in a stake here and there to prevent their getting broken, also attend regularly to the topping back of the shoots. It is only a short while longer that this can be done and the more closely it is followed up the larger will be the specimen. Keep a close watch as to the plants' requirements in watering, syringing, and keeping them clean of insects. Any of the plants that have been potted for some time and are well rooted through the soil can be given a watering of liquid manure once a week. The plants intended for sale in pots will need every encouragement from this time on. If they are well rooted in the pots they are now in, give them a shift to guard against their becoming hard and woody. Also follow up the pinching back of the shoots right along and give them plenty of light and air at all times.

C. W. JOHNSON.

Varieties for Unheated Houses.

ED. AMERICAN FLORIST:—

What are the best chrysanthemums for flowering in November in unheated houses? E. R.

Almost any of the November flowering varieties would be suitable with care in management. The following are good robust kinds: Mrs. Coombes and Convention Hall, white; Col. Appleton and Golden Age, yellow; A. J. Balfour and Dr. Enguehard, pink.

G.

THE ROSE.

ALWAYS choose a cool night when the temperature goes down to about 60° or less for sulphuring the pipes.

EVEN now it is well to see that spraying is not done late in the day. Let the foliage be perfectly dry by night.

SOW a little freshly slacked lime around the benches where the black slimy scum occurs, repeating the dose if necessary in about a week.

LOOK out for the first signs of red spider in American Beauty and spray the under sides of the leaves well. A pale tint indicates the presence of this pest.

Disbudding.

Even so simple a matter as disbudding may easily be done wrong, and it is no use putting careless men or boys at the work. Boys who can be depended upon and take an interest in their work, however, quickly get the hang of the thing and are very useful and where girls are employed these too may soon be instructed in the work, provided a section man is able to overlook things. Especially is care needed with the young stock. This ought to be gone over weekly and the disbudding done according to the age and strength of the stock. The latest planted, that has not a very good hold on the soil, will be checked by cutting away much growth with the buds, consequently only the tips of the shoots should be taken, but as they get a better hold and are growing more strongly, it will be necessary to cut more deeply when removing the bud, to cut in fact down to a good strong growth bud. It is also better to let the flower buds get larger before disbudding, for every leaf made will help the roots and the resulting shoots will be more vigorous than if just the bud is taken and the eye below it. Varieties differ a little in their needs in this as well as other respects but the above is true of all.

Disbudding on the old plants is largely a matter of routine but it should be kept up-to-date. When the shoots are allowed to lengthen and grow stout and strong before removal they are not only a waste of the resources of the plants but they ruin the flower around which they are crowding. In cases where they have run out much it is often best to pinch out the flower itself and leave as many shoots as there is room for to form flowers in their turn. But this leads an untidy straggling plant and cannot be advised as a rule. The plants should be gone over carefully at least once a week, oftener if time can be found and then all will be right. In connection with disbudding, the removal of all old flowers should have attention as they look untidy and attract thrips. Then, with the young stock, there are often small shoots that are useless and should be cut away. Healthy vigorous shoots are needed, the more the better, but these little side shoots are often the means of attracting insects and fungus and are no good anyway for the shoots that spring from them, if any do, are weak and worthless.

COMMERCIAL.

Work of the Tarnished Plant Bug.

Fig. 1.—First and Third Sections Normal Chrysanthemum Stems. Center Section Showing Distortion Caused by Insects.

Rose Foliage Poor in Color.

ED. AMERICAN FLORIST:—

The foliage on some Bride and Bridesmaid roses recently cut back is coming very pale, almost yellow, in color. We read some time ago in the AMERICAN FLORIST that over watering caused the leaves to turn yellow, but these plants have had hardly any water since they were cut back. What is the cause of it?

A. N.

The condition of the rose foliage described by "A. N." is not at all unusual but the reverse. It is per-

WORK OF THE TARNISHED PLANT BUG.

Fig. 2.—Left Hand Normal Chrysanthemum Stem. Right Hand Showing Distortion and Hollowness Caused by Insects. Both Enlarged.

fectly natural for the young leaves to be light in color and this they will get over as they get older. There is, of course, such a thing as the leaves losing color owing to lack of water, but it is full early for this to happen. We like to give one good watering after another until the new soil used for mulching is well moistened and also the old roots, right to the bottom. Then we feel they are all right for a time. Do this and keep the new growth sprayed once or twice daily—three times in hot weather—and the leaves will gradually assume their proper color as they mature.

G.

FLORISTS' FERNS.

NOTHING but good opinions are heard about Nephrolepis Scholzeli and good judges say it is a coming fern.

BLACK THRIPS is the worst enemy to the bird's-nest fern (Asplenium nidus avis) making ugly patches on the fronds.

AVOID heavy spraying of the gymnogrammas or silver and gold ferns. They are easy to grow but do not like much water overhead.

BE careful now not to water heavy plants of Nephrolepis Whitmani, N. todeaoides and similar varieties overhead or it will cause the fronds to fall over.

Adiantums for Cutting.

There is always a demand for good adiantum fronds and they show a good profit to the grower if well done. On the other hand, if the culture is gone about in a careless or haphazard manner there are few things less satisfactory, for one can never be sure of cutting good stock. Benches planted early in spring are now just coming in to cut from and although the fronds are not all mature yet there are plenty for all the demand there is at present. We like to cut a plant or plants right over at once, not to cut fronds here and there. In the former plan one knows just what to expect from the plants but where they are repeatedly being cut the cutting causes a constant check on the plants. Grow them well, cut them over and let them rest before starting up again is the method we have found most satisfactory.

Adiantum cuneatum and its variety Croweanum are the kinds mostly grown for cutting but there are others more or less suitable. A. Williamsii is an erect grower and produces good hard fronds while the double A Pacotti is liked by some. There are also good varieties of the semi-hardy A. capillus Veneris that are good while others are useless. A. Farleyense, where it is given proper attention, is one of the finest of all but it does not do as well on benches and is more easily managed in pots. While most ferns like a light, loose soil with plenty of leaf mold, peat or some such material A. Farleyense, except in a very young state, likes a much heavier compost.

Ferns are often grown in too much shade, especially when they are needed for cutting. It does not do to allow the young fronds to be exposed to the full sun but they need plenty of light as they get older and a thin shading, such as is caused by spraying lime wash lightly on the glass, is sufficient to keep them right. Raising these ferns from seed is a far surer method now than it used to be. Raisers of the spores are probably more careful than formerly; at any rate they come much more true to name. Seedling stock too is healthier growing and much more satisfactory than plants obtained by division of old stock. In many cases it would pay to throw old plants away or at least to use only the young healthy portions around the outside, throwing away the weaker, older parts in the middle of the specimens.

FILICES.

Nephrolepis Davallioides Furcans.

Showing Albino and Two Normal Green Fronds.

White Nephrolepis.

A most interesting white frond of Nephrolepis davallioides furcans has appeared in the fern house of the Missouri Botanical Garden, St. Louis, The frond was obtained from a clump which is growing beneath a large specimen tree fern, Dicksonia antartica, therefore being shaded to a great extent. These abnormalites are often seen among the flowering plants, but this is the first specimen among the filices noticed at the garden, where the whole frond is devoid of chlorophyll or the green coloring matter within the cells. [This has occurred before.—ED.] The leaves were photographed from the same plant for comparison. The albino frond is very delicate and soon withers after being cut. It will be noticed that it strongly resembles in shape the old N. exaltata. G. H. PRING.

WASHINGTON, D. C.—Mrs. Hardesty, daughter of the late John Cammack, has at last secured her divorce, the petition for which was filed as long ago as September 16, 1895.

THE CARNATION.

AS a constant producer of good white flowers all through the season Mrs. J. C. Vaughan will be difficult to beat.

AFTER throwing out the old stock and before planting the new a heavy fumigation with hydro-cyanic acid gas will be in order to kill any chance thrips, spider or other insects that may be in the houses.

A NOVELTY in the way of a yellow border variety, Comtesse Knuth, will be offered this season by a Danish firm. It is said to be strictly hardy and produces great quantities of flowers outdoors from July until October.

PLENTY of help at lifting time is important, but it is even more important to see that the help is so balanced that the planters in the houses, the carriers and the men that are lifting are working in harmony, so that no one set of men is waiting for the other

Stem Rot.

The time is now at hand when stem rot makes its appearance here and there and the grower sings some of the songs which are not fit for ladies to hear. It is queer to think of this old disease which we have seen for years without finding a remedy for it. I have known of growers who have had their own stock for years and not lose a single plant out of 10,000 or more by stem rot, while on the other hand others who had just started into growing this divine flower lost hundreds of plants.

This is one of the most dreaded diseases in the southern states, where very few growers are without it, while in the north, where the winter is long and cold, this trouble decreases after October. The spreading of stem rot is caused by the breaking off of parts of plants while having the dry grass pulled off at any time. Stem rot will not spread underground, but will set in at any portion of the stem that is barked. By cutting the stem lengthwise and viewing it with a good microscope, one can plainly see that the disease works upward, checking the nourishment, and eventually the plant will fall over, with the lower part of the stem decaying later; at other times the lower part will break from the bottom.

There are very few ways to prevent it from spreading; one of the most successful is to take care in pulling off the dry grass; pull it upward and do not trust boys if it can be helped. We use a good dusting of lime over the ground a week after planting, stirring it into the ground well with the hand; afterward it can be watered; then a little dusting of lime and sulphur, with a blower, will be of great benefit to the plants. Plenty of air and a dusting of lime under the benches will help to eliminate green fly and stem rot; it will also diminish the drying up of the grass.

While viewing a place some time ago, the proprietor not being in, I asked permission to go through the carnation houses. Just as I entered one of the houses I noticed a good-

natured Swede grumbling; I looked at him and then asked what was the matter. In the meantime he had pulled out a plant, then the Sunday school language followed. I looked under the benches and in places saw as much as an inch of water standing. I inquired if a water pipe had burst. He said no water pipe had burst; it was only from spraying to keep the houses moist. In just this way many plants are lost annually.

F. ADAMS.

Summer Culture of Young Stock.

ED. AMERICAN FLORIST:—

Please give me instructions as to the care of young carnations, both in the field and in the greenhouses, time to bench and how to water and treat them afterwards.

A. BEGINNER.

Certainly a comprehensive query, and a good deal of the information sought has already been given in the AMERICAN FLORIST, but doubtless "Beginner" is only one of a large family who are looking for the same information. First of all the care of the field stock is largely a matter or routine culture and much depends on the nature of the soil. Speaking in a general way, most soils bake up some after a rain if the sun shines for a few days and before this takes place the upper surface of the soil should be broken up with hoes or cultivator to keep a mulch of dry, loose soil there at all times. This checks a rapid loss of moisture by evaporation, prevents cracking and is in every way helpful to the plants and, incidentally, keeps down weeds. Stopping the shoots should also be done regularly, going over the plants every few days and pinching the strongest shoots, not doing it all at once and making the plants look as though they had been mowed off with a scythe. These are the principal points to attend to with the field plants.

Plants being summered inside must be kept as cool as possible, night and day, and given plenty of air at all times. Newly planted stock needs less water at the roots than that which is well established but more spraying overhead and, if the least sign of wilting is seen, a fairly heavy shade must be put on the glass. Pinching here is necessary in the same way as in the field. Regarding the time to bench get the benches in order and the soil in at once. It is best wherever possible to wait for a rain before lifting as the plants are less likely to suffer. Still when everything is ready we do not usually wait but go right on.

Before planting, if the weather is hot and bright, a fairly heavy shade should be put on the glass, as this is not only better for the plants after being disturbed but the help can work faster and in greater comfort. Plant with as much dispatch as possible and give each plant a good watering, enough to well soak the soil immediately around each. After this first watering a light sprinkling overhead several times daily will keep the plants in good order and growing freely. The strongest growers, such as Beacon and Enchantress, may be planted at 10 inches to one foot apart while for Winsor and more moderate growers eight inches in the rows and 10 inches from row to row will be a good distance. This touches briefly on the principal points of culture and "A Beginner" should write again if there is anything else in which he is in doubt.

COMMERCIAL.

THERE are weeds in the orchid family as well as in others and inexperienced growers should put themselves in the hands of reputable firms when ready to buy.

ANGULOA CLOWESII.

ORCHID NOTES.

PLACE Cœlogyne cristata in a cool, shady frame to finish its growth.

THE cymbidiums are among the most lasting orchids in cultivation and it is not uncommon for C. Lowianum to last three months in flower.

STANHOPEAS have the remarkable quality of pushing their flowers down through the bottom of their baskets instead of up, but they are very beautiful.

THOSE who have only grown the species of dendrobium have no idea how fine and how easily grown the hybrids are, and they are cheap and plentiful now.

PERISTERIA ELATA, flowering now, is remarkable in that the center of the flower bears an almost exact resemblance to a white dove. "El Spirito Santo" the Spaniards in Panama call it.

Anguloa Clowesii.

THE CRADLE ORCHID.

The genus anguloa comprises about half a dozen species; they are all indigenous to the Andes of South America occurring at an elevation between 5,000 and 7000 feet from northern Colombia to 10° south latitude in Peru. Here they are found growing on damp moss-covered rocks. They were first discovered by M. Linden in 1841-43. The genus was dedicated to Don Francisco de Angulo, director-general of mines in Peru at that period.

A Clowesii, commonly called the yellow cradle orchid, first flowered in 1844 in the collection of the Rev. John Clowes of England in whose honor it is named. The plant illustrated is from the collection of the Missouri Botanical Garden, St. Louis, where it is grown successfully in the cypripedium house. Its flowers have no commercial value, but they are extremely interesting botanically and

attract a good deal of attention from the visitors. Each one is an exact replica of a cradle, of a deep citron color. They emit a strong fragrance of aniseed. The labellum or lip is attached to the base of the column by a hinge-like appendage which oscillates when the flower is touched. An essential feature in the cultivation is a complete resting period when the pseudobulbs are mature, so as to induce them to flower when the young growth appears in the spring. Repotting should take place, if necessary, when the first signs of growth appear. Three flowers from one growth, as seen in the illustration, is a rare occurrence. G. H. PRING.

Easily Grown Odontoglossums.

With the exception of Odontoglossum grande, which is grown to some extent for cutting none of this section of the genus is at all popular with growers. Yet all are fine plants and if not quite as large in flower as O. grande they are equally beautiful and just as easily grown. They will put up with the summer heat here, differing in this way from O. crispum and O. Pescatorei and their varieties which may be grown but are more difficult to handle.

O. grande, which may be termed the type of this section of odontoglossum, is the largest flowered species in the genus; the sepals and petals are yellow with heavy transverse blotches of deep reddish brown, the lip whitish, also marked with brown. O. grande is a winter flowering species that should be grown cool the year around. From the time the new roots push from the new growth until the latter is finished the supply of water must be very free and even when at rest the roots must not be dried. In the ordinary cool orchid house, or in fact in any greenhouse kept shady and cool, the plants will grow and do well and during the summer months they may be placed outside in a shady spot with advantage, the plants and the soil around them being sprayed several times daily.

What is true of O. grande as to culture applies also to O. Insleayi and it is difficult to account for this pretty plant not being more grown. In habit and appearance it is very similar to O. grande but it flowers a couple of months earlier, often in autumn. The type has sepals and petals yellow with brown markings; in the variety Leopardimum the markings are reddish crimson with a deeper ground color; in Splendens the flowers are almost totally yellow except the lip, this having several red blotches while Pantherinum has more brown and less yellow in its makeup than any of the other varieties.

O. Uro Skinneri is something along the same line as the preceding but taller growing and throwing a flower spike two feet high. It thrives under the same treatment as O. grande and flowers in July and August. O. Schleiperianum is a paler colored form of O. Insleayi according to some botanists while others consider it a distinct species. The flowers have the same yellow tint but this is overlaid with a deeper, brownish yellow, quite distinct from all others. It is not quite as showy as the species with which we have compared it but a very pretty and useful kind for cutting. This is practically all of what may be termed the O. grande section but there are several other odontoglossums that are just as easily grown and not affected by the heat.

O. pulchellum, or O. Egertoni, as it is sometimes called, is a charming little species producing erect spikes of pretty, white sweetly scented flowers. There is a remarkable singularity about this species. It is almost precisely identical with O. citrosmum but smaller and the flowers are just inverted. If the spikes took a downward direction instead of erect (as those of O. citrosmum do) they would be exactly alike. These two species may be grown with the cattleyas if no other orchid house is at command though a little less heat is desirable. O. citrosmum requires more drying at the root in winter than any other odontoglossum. Some growers go so far as to say that it will not flower if any water is given after the growth is complete until the spikes show in the young growth but this is hardly true of some plants at any rate. Still it is safer, after the beginning of winter, to keep the roots quite dry, no matter if the bulbs shrivel and wait until the little white tip of the flower spike shows in the new growth. After this it is hardly possible to give too much, as O. citrosmum is a thirsty subject while growing.

O. Edwardi presents the unique feature of a violet or purple colored odontoglossum. No other species is anything like it; the spike grows erect from the center of the new growth and is branched and crowded with purple flowers, each with a bright yellow eye. It likes plenty of water the year around, cool treatment and lots of fresh air. It flowers in early spring and is a native of Ecuador. O. maculatum is an old garden orchid and one of the easiest to grow. It also lasts in flower a remarkably long time. It flowers in early spring but it is not at all unusual for the same plants to be in flower at midsummer. These are by no means the only species that may be termed easily grown but they will serve to show that there is plenty of variety in this beautiful genus even leaving out the difficult ones.

COMMERCIAL.

Electricity in Plant Culture.

The emperor of Germany, according to the Evening Standard, has introduced on his private estates at Dahlen, a few miles from Berlin, the new system of stimulating the growth of plants by electricity. Experiments systematically conducted under the supervision of Dr. Höchstermann are said to have demonstrated that the growth of plants, flowers and, in fact, all kinds of vegetation thus far tested can be stimulated by charging the air above and around them with electricity. Further systematic experiments are now being carried out to ascertain the precise differences in the growth of plants in an atmosphere charged with electricity and plants which grow under normal conditions, and also to find a cheap and simple method of charging the atmosphere with the necessary electricity.

The Work of the Peony Society.

BY PRESIDENT BERTRAND H. FARR.

It has been suggested that, as one of the committee on nomenclature sent by the American Peony Society to assist in the work among the peonies at the Cornell test plot this season, it would be well for me to give an account, through the columns of THE FLORIST, of the work done and the condition of the peonies in the plot as we found them, for the benefit, not alone of the members of the society, but the large number of florists and amateurs in general who are more or less interested in peonies and the work of the society. I am glad to do this, especially in view of the criticisms which have been made by some members of the society, which were voiced and made public in President Ward's letter read to the society at its last meeting at Queens, N. Y. Mr. Ward, of course, has not seen the plot for two years, and his impression regarding the conditions at Cornell has been formed from hearsay and without being aware of the great improvement which has been brought about during the last year.

PLANTS CHECKED BY MOVING.

It might be well for me to mention the basis from which these criticisms have arisen in order to make it more clear that it was due to a few circumstances at the very beginning which, while unfortunate in delaying the work, were unavoidable, and for which no one could justly be blamed. It must be admitted that the first results were disappointing, because the peonies were unfortunately planted at a location that was later on required by the college authorities for other purposes, making it necessary to move them to another place. This gave the plants a check from which they had not recovered when the meeting was held at Ithaca in 1907, and it was at once seen that it would require another year's growth before it would be possible to study the peonies properly, and members who came expecting to see a fine display of peonies in the field were disappointed.

The ground was a very stiff heavy clay, which seemed as if it might be too wet, and many members expressed the opinion that peonies would not thrive there unless the field was thoroughly drained. This opinion seemed verified when the following year, 1908, after a cold, wet spring, the majority of the plants still failed to show typical blooms.

In spite of all, the meeting in 1907 turned out to be a very interesting one and the members went home full of enthusiasm and with the conviction that the work was well on its way to a successful conclusion. We felt deeply indebted to the university for the work it was doing for the society, to Prof. Craig for his cooperation and hospitality, and to Dr. Coit for the thorough manner in which he had gathered together all of the known peony literature and laid the foundation for effective work, including the publication of the check-list, containing a list of all the names of the peonies catalogued at the present day, some 2,700 in all, a large proportion of which were represented by the plants themselves in the test plot.

It was suggested that a new plot be planted, this time the object being to form a collection of only the very choicest varieties, each large grower being invited to send from 100 to 150 of what he would consider the very best varieties. This suggestion was carried out, and the following fall collections were sent in by a large number of growers, the new plantation being placed alongside of the old one, but on ground lying a little higher.

AN UNFORTUNATE MEETING.

The meeting in 1908 turned out most unfortunately for the welfare of the society. President Ward was unable to be present. Prof. Craig was in Europe dangerously ill. Dr. Coit had accepted a permanent position in Arizona and the work of the society was in charge of Leon D. Batchelor, who had but recently taken charge, having had scarcely time to become thoroughly conversant with the work in hand. The result was depressing and discouraging for the society, and the situation for Mr. Batchelor a most embarrassing one.

The peonies again, in the original plot, were not up to expectations, and it is scarcely to be wondered at that under the effect of so many depressing circumstances some of the members should become impatient and indulge in open criticism. For it seemed to many of us then that the university had lost its interest, and that there was danger that the whole purpose of the experiment would fail. Suggestions were made by some that the peonies be moved to a more favorable location, and by others that the old plot be abandoned and the work concentrated on the new plot. Fortunately neither of these suggestions was carried out, it being decided that it would be unfair to the original donors to fail to carry out the test along the lines originally planned.

A committee of three was appointed, C. W. Ward, S. G. Harris and myself, to devise ways and means of improving the conditions of the plot, and to confer with the college authorities on this subject. This committee met in Mr. Ward's office in New York and discussed the subject, with the result that Mr. Brown of the Cottage Gardens Co., acting for Mr. Ward, and myself were to send a letter to Prof. Craig after his return, conveying the suggestions we had to offer. This letter, however, was never sent, as in the meantime, through correspondence with Mr. Batchelor, we learned that practically everything it was our intention to suggest was already being carried out under the direction of Mr. Batchelor, the college authorities having given him full charge and power to do everything which in his judgment was required for the good of the peonies. Provision had been made for drainage, and over 80 loads of manure hauled on the plot. Any further action on our part was deemed unnecessary.

GOOD SHOW IN 1909.

This year the peonies made a splendid showing. They are strong and healthy, and with but few exceptions are full of typical blooms which gave us a splendid opportunity to study them and make comparison. What is most surprising, the strongest plants and finest blooms are in the portion of the plot that came in for the greatest amount of criticism—that is, the very lowest point in the field. Here some of the very choicest varieties are found, many of them from the collections received from Europe. Avalanche, Albatre and Mlle. Rosseau stood nearly shoulder high, with immense blooms, which were a revelation to me, also great clumps of full double Martin Cahuzac, varieties which in our nurseries are never allowed to stand long enough to show us what they really are. The Lady Alexander Duff, sent by Thurlow, with its immense white blooms, was particularly noticeable, all growing in the ground condemned the year before as being absolutely unfit to grow peonies in.

Another point which I took particular notice of was the fact that the colors of most of the varieties were especially strong and distinct, all of which goes to show that while it takes peonies longer to establish themselves in the heavy clay, the strong soil produces excellent results when they are finally under way. My only regret was that the other members of the society could not have seen them this year instead of last. I wrote to J. Dauphin asking him if he had any suggestions regarding this report. I cannot resist quoting the following from his letter:

"I have no suggestions to make, as I think whatever you say on the subject will be the same that I would say. For the general appearance of the plants, either as a whole or individually, I had no kick coming. The plants were strong and healthy, and flowers in as good shape and size as could be. Very few weeds, and the ground had been well cultivated. I am pretty well satisfied with the looks of the plot this year. I know the difference between that clay soil and our sandy loam at Long Island. They may on their lot sometimes be unable to cultivate or weed out just on account of the weather.

"Not taking account of the mixture of varieties, which was done by everybody, I say the lot is O. K. And, moreover, I believe Mr. Batchelor is doing his very best in the case and, I am sure, will keep it up. As regards drainage, what do they want to drain, pocketbook or lot? Neither needs it, I think. There is, it is true, a low corner in the plot, where Goos & Koenemann's plants are, but they seem to enjoy the spot. I wish you would in your report emphasize the pains Mr. Batchelor is taking in this work. My way of looking at the whole situation is not of censuring anyone, but just the other thing, congratulations for the work done. Very truly yours, J. Dauphin. July 16, 1909."

MR. BATCHELOR'S WORK.

When we arrived we found Mr. Batchelor among the peonies with two assistants who were helping him in tabulating descriptions of the varieties in bloom. A tent had been erected and everything necessary for carrying on the work was right on the ground. There are 1,933 numbers in the original plot, and to go over each of these one by one seemed like a hopeless task. The mix-up of varieties and names is appalling. I don't believe the members of the society begin to realize how bad it is. I am sure I did not. But there they were side by side, all in bloom. And by the evidence we were all guilty. It is impossible to go into details, but here are a few illustrations: Edulis Superba appears under 24 different names, and I don't know how many got away. Nearly all the L'Esperence sent by American growers is Edulis Superba. The European growers sent the correct one. "A fleshy white minutely powdered with lilac, Duchess de Nemours (Guerin)" in every case proved to be Edulis Superba. Modeste Guerin and Rosea Superba proved to be the same, while Gen. Bertrand in many cases appeared under the name of Modeste Guerin. Probably Queen Victoria, or Whitleyii, could lay claim to the greatest variety of names, unless perhaps, among the reds, with stamens, where the greatest confusion exists, Delachii, Fulgida, Louis Van Houtte and others being badly mixed. Lady Bramwell, long catalogued as a Kelway introduction, proves to be in every case identical with the old Fench variety, Dr. Bretonneau (Verdier), and so on. The check list, with its 2,700 names, staggers one. But at the above rate I believe it can be reduced to one-fifth that number by the process of elimination.

Naturally this thought will arise in the minds of many, How can the committee be sure it is able to say which is the correct variety among such confusion? At first it seemed impossible; but, on getting down to work, strange to say, the very confusion in many cases brought about the natural solution of the problem. The positive identification of a variety in one place solved the question in a host of others, and as we advanced through the plot the work became clearer and clearer.

DESIGN OF CYCAS WITH LAUREL WREATH AT FUNERAL OF JOHN THORPE.

Made by the Geo. Wittbold Co., Chicago.—See Page 1307.

from the simple fact of having all the evidence gathered together before our eyes.

EUROPEAN COLLECTIONS.

It was a master stroke on the part of Mr. Ward when he induced the most reliable European growers to send their collections over here. We have Dessert's complete collection, in addition to that of Croux, and Paillet of France, Goos & Koenemann of Germany, Barr & Sons of London and DeGraaff Bros. of Holland, this last collection being obtained through the efforts of Prof. Craig. These collections have proved to be a wonderful help in this work, without which I am convinced it would have been impossible for us to make such headway.

The work naturally resolved itself into three parts: First, varieties which can be identified without much difficulty and which we were able to pass upon as being correct without much doubt; second, those varieties which for various reasons will require more study or regarding which we had no data to work upon; third, varieties with names of uncertain origin, that probably it will never be possible to identify, and which are of such doubtful value as not to be worth the time and effort necessary to establish their identification, even if it were possible.

Of the first group Mr. Batchelor writes that he thinks the list will number 275 varieties, descriptions of which will be published by the college during the coming winter. It is the intention to start a new plot wherein three of each of these 275 varieties will be planted to serve a basis of comparison for future work and to show the members of the society the true variety so far as the committee is able to judge, subject to the correction of any errors which may be discovered before the official catalogue is finished and permanently published. The third class will be eliminated from further consideration, except as identification follows in the natural progress of the work, leaving only the varieties in the second class upon which the work of the committee will be concentrated next year.

Prof. Craig says the university has taken hold of this work, backed by the state of New York. And they will carry it to its final conclusion, even if the Peony Society should go out of existence. They have already spent over $700 on the bulletins printed for the society. Several acres are occupied by the peonies, the use of the land and its care being no small item. Secretary Fewkes in a letter just received writes as follows: "I think the society does not realize what is being done for it by Prof. Craig and his assistants, and what little experience I have had in such matters leads me to believe, that the nomenclature business would soon be in the same condition in which the peony committee of the S. A. F. find its efforts, had it not been for Prof. Craig. I am glad the society conferred honorary membership on Mr. Batchelor. And when they come to realize the amount of work he is doing, I think they will be glad to honor him in any way that seems fit."

John Thorpe.

From Photo Taken at Washington Park, Chicago, January, 1904.

OBITUARY.

John Thorpe.

John Thorpe, seer of American floriculture and first president of the Society of American Florists, is no more. He died at the residence of one of his daughters, Mrs. M. Flint, 3519 Princeton avenue, Chicago, with whom he had made his home in recent years, July 15, at the age of 67. He had been in failing health for some months and during the past few weeks his relatives felt that the end was close at hand. Mr. Thorpe's place in floriculture will perhaps be more truthfully fixed by the historian of the future, but it is beyond question that his genius and industry in the cause have awakened interest and enthusiasm in every section of this country. The foundations of his career were well laid, as told in the story of his early days, in the AMERICAN FLORIST of November 1, 1885, as follows:

"John Thorpe was born April 3, 1842, at Keyham, Leicester, Eng. His father was gamekeeper of a large estate, and also had much knowledge and skill as a gardener. Under his instruction and later under that of an uncle who was both a nurseryman and a florist, and to whom he was apprenticed, the lad rapidly acquired such knowledge that before he was 16 years of age he grew and exhibited six cinerarias at the Leicester spring show, beating three or four competitors. After the death of his uncle, which happened a month later, he went into a large fruit-growing establishment, where he remained three years. During this time he was growing for exhibition with marked success geraniums, calceolarias, fuchsias and verbenas. After this he returned to Leicester and had for his tutor the present curator of the Glasgow botanic gardens. After four years he found himself in possession of the place in which he was apprenticed. Later he became a partner in the Paddock nurseries at Stratford-on-Avon. In April, 1874, he landed in New York enroute for Cleveland, Ohio, where he was to take charge of the grounds of W. J. Gordon. After three years he started in business for himself in the same city and continued in it until removing to Queens, L. I., in January, 1880.

"Mr. Thorpe's life-work has been in

OUTING OF VAUGHAN'S SEED STORE (NEW YORK) EMPLOYES AND FRIENDS AT BAMBERGER'S PARK, ELTINGVILLE, JULY 17.

See Page 1349.

the line of artificial fertilization. With a keen, true eye for form and color, a thorough knowledge of plant life and laws, a persistent steady purpose, and a love and enthusiasm for his work, he could but make a successful hybridist. His seedlings are numerous, and many of them of rare merit. Among geraniums, Macbeth, Wm. Cullen Bryant, Happy Thought, Henry Cannell and others show him to be the peer of any man living in this work. Black Knight and Portia among carnations bear witness that he is equally at home with this popular flower. And for chrysanthemums, what has he not done? In their season they have become almost as popular as the rose. Their glory and triumph attest the skill of their manipulator. Phloxes, petunias and even potatoes show forth his handiwork. Of the latter he had at one time not less than 6,000 seedlings, some of which are grown today, the round Model raised 20 years ago being shown in many collections last season.

"His busy life leaves him but little leisure, yet he has gained for himself a worthy place among horticultural writers. His style is clear, vigorous and terse, only less pithy and pointed than his conversation, which is worth a day's journey to enjoy, running over as it is with keen, crisp, original thought. As the first president of the Society of American Florists, and an active member of one of the largest plant-growing establishments in the country, he is well known to every reader of this journal."

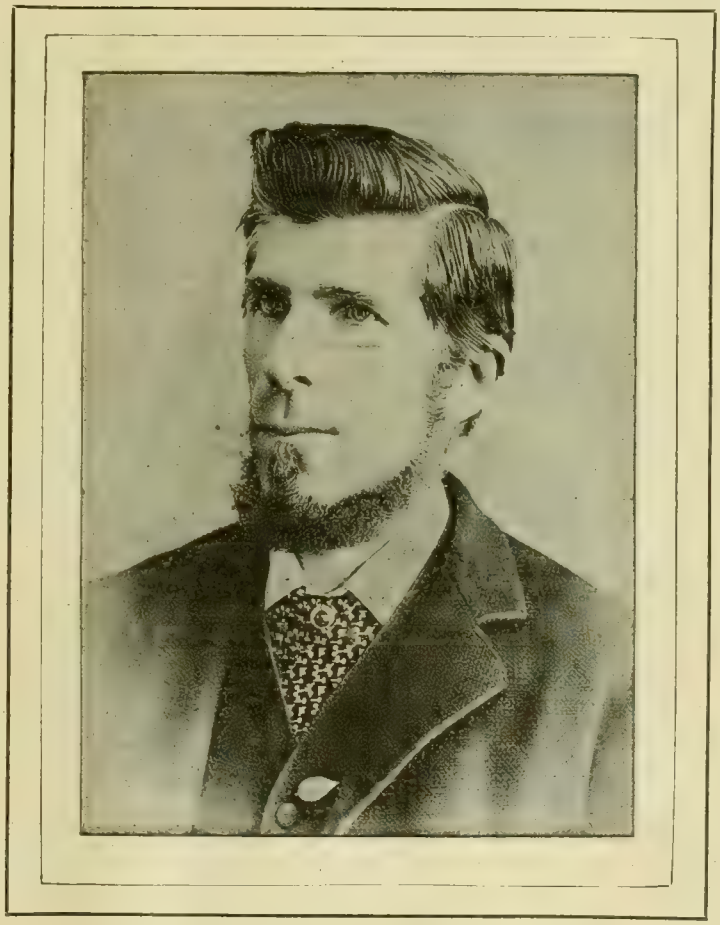
From the time Mr. Thorpe left Cleveland and became a member of the firm of V. H. Hallock, Son & Thorpe, Queens, N. Y., his interest and work in the advance of floriculture through exhibitions at New York and elsewhere increased rapidly. The Hallock establishment at that time was not equipped with greenhouses in a large way, and what with many small plants required for the mail order business of the firm and Mr. Thorpe's experiments in hybridizing, the modest room was pretty well taken up and crowded, probably a condition not tending to the noticeable advantage of either. The widely different conditions which these two lines of effort naturally required finally resulted in Mr. Thorpe's retirement from the firm in October, 1887, when he went to New York to associate himself with Siebrecht & Wadley. However, the contemplated partnership was never consummated, and in February, 1888, he went to Pearl River, N. Y., taking over the place owned by the Hanfts.

At a preliminary organization meeting held in the Sherman House, Chicago, June 19, 1884, he was elected first president of the Society of American Florists. In 1886 we find him busy as secretary and manager of an exhibition held under the auspices of the New York Horticultural Society, said at the time to be the finest show ever held by that organization, the list of exhibitors, extensive for the period, including Peter Henderson & Thorley among others. Mr. Thorpe was appointed chief of floriculture at the World's Columbian Exposition in 1893, being actively urged for this position by his eastern friends at the Florists' Convention in Buffalo. At that time, and while floriculture under the plan of the World's Fair management was not in itself a bureau, yet in appointing Mr. Thorpe to that department he was given the title of chief of floriculture by Director General Davis and his work was understood to be separate and independent from the Bureau of Horticulture, of which J. M. Samuels was chief. His last great efforts in the way of exhibitions were the Kansas City, Mo., shows of 1901-1902, generally voted whirlwind successes worthy of that enterprising community. Rockwork was one of the forms of gardening to which Mr. Thorpe paid considerable attention, and it is said that one of the finest examples of his work in this line is to be found at the Pennsylvania railway station, Richmond, Ind.

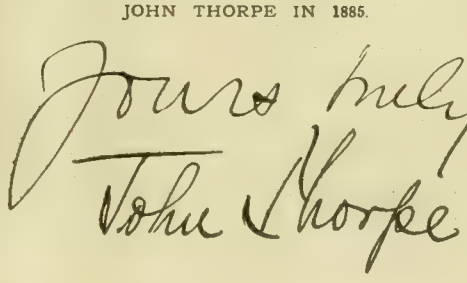
Contemporary and friend of the late C. F. Klunder, another master of floriculture, whose talent bent in a different direction, however, that of floral art, the two men had much in common, and W. N. Rudd faithfully portrayed Mr. Thorpe's character at the funeral exercises when he said: "This man was a genius. It is said that genius is akin to madness. It may be so. He created while others reaped the material benefits. He had little or no genius for money-getting or money-keeping. But he did have a genius for seeing the beautiful in nature. In that wonderful brain he could see, long before anyone else, the possibility of the lovely "pink" developing into the grand commercial carnation of today which is literally the bread and butter of so many of our profession. It was he who saw in the crude, daisy-like flower of the field the thing of glory the chrysanthemum is today. This man was a genius. His were the golden dreams coined into golden dollars by those who came after him."

The funeral services were held at the home of his daughter, Mrs. Margaret Flint, on an ideal summer day, Saturday, July 17. The Rev. Mr. Davis, of the Armour Mission, officiated. The hymns "Abide With Me" and "Lead, Kindly Light" were sung. Following the sermon Secretary Rudd in a short talk paid a high and touching tribute to Mr. Thorpe's life and work. Floral emblems were most numerous and elaborate, including tributes from the Society of American Florists, the Chicago Florists' Club and a host of personal friends, very largely in the trade. Many leading representatives of the florist trade in the city were present. The remains were cremated and the ashes placed by the side of his wife in Oakwoods cemetery. The pall bearers were W. N. Rudd, E. A. Kanst, Geo. Woodward, Jos. Curran, F. F. Benthey and J. C. Vaughan. Among those from out of town were J. D. Carmody, of Evansville, Ind., and H. E. Philpott, of Winnipeg, Man. A plaster cast of Mr. Thorpe's face taken July 18 proved quite a success.

Mr. Thorpe was married in 1862 to Clara Soars, the daughter of a well-to-do farmer of Woodhouse, Lincolnshire, Eng. Mrs. Thorpe died June 8, 1900. They had six children, four of whom survive, John Thorpe, of Tarrytown, N. Y., Miss Thorpe, Mrs. Flint and Mrs. Romaine, and seven grandchildren.



JOHN THORPE IN 1885.



THE AMERICAN FLORIST

1885 TWENTY-FOURTH YEAR. 1909

Subscription, United States and Mexico, $1.00 a year; Canada $2.00; Europe and Countries in Postal Union, $2.50 Subscriptions accepted only from those in the trade.

When sending us change of address always send the old address at the same time

Advertising rates on application.

From the first issue the AMERICAN FLORIST has accepted only trade advertisements

Advertisements must reach us Tuesday (earlier if possible), as we go to press Wednesday.

We do not assume any responsibility for the opinions of correspondents.

Eastern Representatives:
A. F. FAULKNER, 1133 Broadway, New York.
ROBT. KIFT, 1725 Chestnut St., Philadelphia, Pa.

THE AMERICAN FLORIST,
324 Dearborn St., CHICAGO

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I claim that florists are among the best educators in the country. They teach by example as well as precept all that is good and true; they will mould the character of generations to come; they help those afflicted with sickness, and make the long hours of pain more endurable. They teach also that, with even all the buffetings of life, there is really something worth living for, and that withal the beauties of nature are ever truthful, full of inspiration, and prompt us all to do that which is right.—John Thorpe at Cincinnati, 1885.

JOHN THORPE is dead.

Now Ohio has got the hailstorm habit.

ANOTHER big automobile parade for Washington, D. C., is scheduled for September 30.

THE preliminary programme of the Society of American Florists has been mailed to the members.

CHEAP paint is useless as a preserver of wood. Buy good white lead paint for all new or old woodwork.

AZALEAS, according to Belgian advices received July 21, are not as good as they should be at this time of year, having had too much rain.

THE "Wonderberry" of Luther Burbank was described as worthless by the judges at a recent show of the Massachusetts Horticultural Society.

HARRISII LILY bulbs received this week appear to be of extra fine quality, being of good size, solid, well ripened and apparently more uniform in type than usual.

THE 1909 S. A. F. badge is being mailed by Secretary Rudd. The color is a copper bronze. The original design was supplied by a committee consisting of Messrs. Murdoch and Vaughan.

WE do not want to imitate the blacksmith who sat on his anvil on Sundays for a change, but there is always something to be learned on a vacation trip by visiting other people's places.

F. R. PIERSON, chairman of the tariff committee of the S. A. F., reports receiving a letter July 10 from Senator McUmber with copy of printed bill showing the final acceptance by the senate of the revised schedule exactly as submitted by him in Washington.

THE AMERICAN FLORIST desires the names of members who have been very regular in attendance at the recent annual conventions. It desires to compile a list of those who have attended the most meetings, and will be glad to receive records from its subscribers who have been constant in their attendance at the S. A. F. conventions.

Personal.

J. J. Curran has given up his place at Salem, Va., as Mrs. Curran does not like the climate of the south. His present temporary address is 62 Ackerman avenue, Clifton, N. J.

W. W. Coles, of Kokomo, Ind., and family are at Oden, Mich., where Walter is busy making contracts for the S. P. C. banquet at Pittsburg next year.

J. B. Deamud has harvested his early chicken crop on his Cairo (Mich.) farm and will soon commence on the lambs.

Julius Roehrs, Rutherford, N. J., is in Switzerland.

Society of American Florists.

REGISTRATION OF ROSE.

Wilmer W. Hoopes, of Hoopes Bro. & Thomas Co., West Chester, Pa., offers for registration the following rose: Climbing American Beauty—Parentage, an unnamed seedling crossed with American Beauty; growth—of strong climbing habit, making shoots of 10 to 12 feet in a season. The foliage is a rich dark green, free of mildew or black spot. The color and form of flower is similar to its pollen parent, American Beauty, four to five inches in diameter. It blooms very profusely in June and occasionally all through the summer. The plant is hardy, having withstood a temperature of 5° below zero without injuring even the tips of the shoots.

The application for this registration having been submitted to the American Rose Society and not having been objected to by it, the registration is completed under the rules of this society.

W. N. RUDD, Sec'y.

July 16, 1909.

The National Irrigation Congress.

Continent-wide interest has been aroused in the problems relating to the reclamation of arid and swamp lands, deep waterways, forestry, conservation of the country's resources, good roads and home-building to be discussed during the seventeenth sessions of the National Irrigation Congress in Spokane, August 9-14, and there is every indication that the attendance will be the largest and most representative in the history of the organization.

Railroad presidents, financiers, scientists, government officials, engineers and practical men in other lines of activity have accepted places on the programme and advices to hand show there will be from 4,500 to 5,000 delegates, including farmers, orchardists and truck gardeners and visitors from various states. R. Insinger, chairman of the board of control, has letters from 25 governors of states and territories west and south of Chicago, saying they will be present one or more days and representatives from Europe, the South American republics, China and Japan are expected to remain throughout the week. A varied and exhaustive programme has been arranged.

The E. G. Hill Co., Richmond, Ind,

For three years past the E. G. Hill Co., of Richmond, Ind., has been operating two places some four miles apart; the firm had outgrown its east side place and, being hemmed in by the city parks, was unable to add to its real estate. The new place is a 50-acre strip lying along the Pennsylvania railroad and bounded on a second side by the city street car line, which terminates at the office. Last year the company began moving a portion of the east side glass to the new place, where there are now 11 large houses each 500 feet long; the moving will be completed next year, but there will be left at the east side place 10 houses, which are now the property of F. H. Lemon (E. G. Hill's son-in-law), which will be used to care for the city retail trade. Mr. Lemon has withdrawn from the Hill corporation, which now consists of E. G. Hill, president; Jos. H. Hill, vice-president and manager; S. A. Hill, secretary, and E. H. Mann, treasurer. The offices were removed to the west side on July 1 of this year. Visitors to E. G. Hill Co.'s establishment can make direct connection with the greenhouses from the railroad station. As in former years, this firm is testing some unusually interesting new roses, carnations and chrysanthemums.

Meetings Next Week.

Baltimore, Md., July 26, 8 p. m.—Gardeneners' Club of Baltimore, Florists Exchange hall, St. Paul and Franklin streets.

Cleveland, O., July 26, 7:30 p. m.—Cleveland Florists' Club, Progress hall, 2610 Detroit street.

Lake Forest, Ill., July 28, 8 p. m.—The Horticultural Society of Lake Forest, Council Chamber, City hall.

New London, Conn., July 28.—New London County Horticultural Society, Elks' hall.

Toledo, O., July 28.—Toledo Florists' Club.

Wants, For Sale, Etc

One Cent Per Word, Cash with Adv.

For Plant Advs., See Ready Reference Section.

Every paid subscriber to the AMERICAN FLORIST for the year 1909 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Where answers are to be mailed from this office, enclose 10 cents extra to cover postage, etc.

Situation Wanted—By gardener who understands flowers, fruits and vegetables; single. Address Key 858 care American Florist.

Situation Wanted—By a first-class store man; capable of handling the best of trade; very competent decorator; best references as to ability and character. Key 859, care American Florist.

Situation Wanted—To recommend a sober and trustworthy greenhouse man; single; any firm wishing a man they can rely on. Address THE MINGE FLORAL CO., Mobile, Ala.

Situation Wanted—German, 22 years old, wishes position in rose houses as section man; near Chicago preferred. Address ERWIN EINSMANN 111 Mead Ave., Port Chester, N. Y.

Situation Wanted—By sober young man who has had many years' experience in carnations, chrysanthemums bulbous and bedding stock; would prefer to take charge of place; can furnish best of references. Address Key 854, care American Florist.

Situation Wanted—Gardener and florist, single, 30 years of age; 14 years' experience in private and commercial places; grower and propator of pot and bedding plants, cut flowers, carnations roses, violets, mushrooms, landscaping; private or institution preferred; can furnish references. Key 861, care American Florist.

Situation Wanted—Gardener and florist, German 28 single 14 years' private and commercial experience in pot and bedding plants, cut flowers, forcing outdoor vegetables fruits, landscaping, desires position August or September 1, on gentleman's place or grower on commercial place. Please state particulars and salary. Address Key 860, care American Florist.

Help Wanted—A florist for a retail place with general stock of plants and flowers; wages, $60; state age, experience and send reference. I. L. PILLSBURY Galesburg Ill.

Help Wanted—Strong young men for handling wheelbarrows and as helpers in greenhouses; steady employment to the right kind POEHLMANN BROS. CO., Morton Grove, Ill.

Help Wanted—Married man who understands roses and carnations, to work under foreman; salary, $60 a month with house rent free. Address IDLE-HOUR NURSERIES, Macon, Ga.

Help Wanted—First-class designer, decorator and storeman for retail store. Address, giving particulars, salary, etc., Key 844, care American Florist.

Help Wanted—Experienced seedsman, especially for house work on garden seed and packet seed department; also to travel on the road three to four months during the season. Address Key 857, care American Florist

Help Wanted—Reliable traveling salesman to work market garden trade also to work in store; must have experience on the road also a thorough knowledge of the seed business; good salary to right party; best of references required. J. F. NOLL & CO., 115 Mulberry St., Newark, N. J.

Help Wanted—A young married hustling working foreman to take full charge of place where roses and carnations are principally grown; must be sober, experienced and well recommended; fair wages and increase when ability is demonstrated; permanent if successful J. R. FREEMAN, 612 13th St., N. W., Washington, D. C.

For Sale—A growing florist business; a splendid opportunity for a good florist For particulars write FRANK L. SMITH The Land Man, Dwight Ill.

For Sale—Greenhouse Property near Boston; dwelling house, barn, horses, wagons and tools; 13,000 or 14,000 feet of glass, city water; good home trade; easy terms. Key 853, care American Florist.

For Sale—27,000 ft of glass; six town lots 75x150 ft; five acres two squares from greenhouses; good residence; small barn; all in good condition; doing a profitable business; will sell cheap, will send photos of place to any one interested and wants more information. Address D. C. NOBLE & SON Columbia City Ind.

For Sale—Greenhouse plant of about 19,000 feet of glass; steam heat; cheap coal; all stock goes with the plant; six-room cottage; about one acre of ground; on car line; horse wagons, tools, designs and all go with plant; a rare chance for a good florist with $5,000 cash; balance on easy terms; reason for selling, poor health, not able to look after the business. Address A. D. JONES Colorado Springs, Colo.

Fine Opportunity

Wanted to get in communication with experienced florist who has some capital. Have fine site for greenhouse, opposite cemetery. Town of 15,000 that would buy flowers and none to be had If interested, write

FRANK P. BROCKMAN, Columbus, Ind.

Help Wanted.

A first-class rose grower. Married man preferred. Good pay and permanent position. Address

Key 839, care American Florist.

WANTED.

AT ONCE. A married man as florist and kitchen gardener. Must have experience and be capable of taking full charge of a private greenhouse and large grounds. Best of references required. A permanent position for a capable man. Address

J. M. STUDEBAKER, South Bend, Indiana.

For Sale.

Greenhouses, 15,000 feet of glass; near cemetery; no competition; everything in good order; fine chance.

Key 852, care American Florist.

BOILERS.

One 100-h.p. internal fired, for 125 lbs. steam; practically new. One 125 h.p. return tubular boiler, for 80 lbs steam; in good condition.

Two NEW 25-h.p. upright boilers.

One new steel heating boiler for 600 feet steam radiation. One second-hand heating boiler for 1000 feet radiation.

Full specifications and price on application.

THE D. CONNELLY BOILER CO., Cleveland, O.

WANTED --- At Once

A good grower of roses, carnations, 'mums and general line of pot plants; must be able to produce results; permanent position and good pay. ——Address ——

Key 839, care American Florist.

For Sale.

The finest place in northern Ohio, doing fine retail and wholesale business with chance to increase 50%; within one hour ride from Cleveland with electric and steam Ry.; eight room dwelling, 5 room boiler house, 7 houses, 2 steam boilers, steam trap, fine city water; everything complete.

This place will interest you if you are looking for something good.

Key 855, care American Florist.

Low Rates to Chicago

The Chicago Association of Commerce has arranged with the Western Passenger Association for a special rate of one and one-half fare for the round trip during months of July, August and September.

Write us for further particulars.

VAUGHAN'S SEED STORE, Chicago

NOTICE

—OF—

STOCKHOLDERS' MEETING.

CHICAGO, July 17, 1909.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the stockholders of the American Florist Company will be held in the Gibson House, Cincinnati, Ohio, Wednesday, August 18, 1909, at 3 o'clock p. m., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres.
M. BARKER, Sec'y.

Make Your Want Known

If you want to get rid of it. A want advertisement in the

AMERICAN FLORIST

will do what you want. Try it now. Back of every ad is a real want, so it pays to answer them. : : : : :

MORTON GROVE, ILL.

THE AMERICAN FLORIST,
324 Dearborn St., Chicago:

GENTLEMEN:—Having given a thorough trial to the advertising columns of other trade papers and in some instances running the same advertisement simultaneously in both the Chicago trade journals, we find that we have received better results, not only in inquiries, but in **cash returns,** from THE AMERICAN FLORIST than from any other source. Kindly cut out the fuchsias and coleus in our advertisement, as they are all sold.

Yours very truly, N. C. MOORE & CO.

(Copy)

Give Us a Trial. We Can Please You.

Roses, Carnations and all kinds of Seasonable Flowers in Stock.

WM. F. KASTING CO. Wholesale Commission Florists.
BUFFALO, N. Y.
Florists' Supplies and Wire Designs.

E. A. Beaven
LOG MOSSES
Natural and Perpetuated.
Special prices for quantity lots for future delivery.
EVERGREEN, ALABAMA.

Georg. Cotsonas & Co.
Wholesale and Retail Dealers in all kinds of
Evergreens.
Fancy and Dagger Ferns Bronze and Green Galax.
Phone 1202 Mad. Sq.
Main Store, 50 W. 28th St., NEW YORK.

Cincinnati.

STOCK AND TRADE GOOD.

Trade the past week was very satisfactory. A nice line of stock was to be had and the demand kept pace with the supply. American Beauty roses and others are coming along nicely. Carnations are growing smaller and will very soon be over. Asters are improving in quality and some right good stock is to be had. McCullough's had some very good lily of the valley, and Lilium longiflorum, L. rubrum and L. album were to be had in quantity. Sweet peas, owing to the heavy rains, are about done for. G. O. Coblentz, of New Madison, began shipping his superb gladioli to this market the past week and they were eagerly sought for at $5 per 100. The blooms were well worth the price. Green goods of all kinds are plentiful but we regret to say there is no active demand at this writing.

NOTES.

Last Wednesday afternoon about 12 ladies held a meeting at Louis Kyrk's wholesale house to map out a programme of entertaining the ladies at the coming S. A. F. convention. Mrs. Louis Kyrk acted as president and Miss Edith Kyrk as secretary. C. E. Critchell who is a member of the ladies' committee was also in attendance. Several committees were appointed to report at the meeting on Monday afternoon at 2 p. m. at the same place. A funny incident occurred just as the president rapped for order. A band of brass instruments played by colored gentlemen put in their appearance and played (or rather murdered) "My Old Kentucky Home" with a persistency that was remarkable. Even the alluring smiles and kind words of Charley Critchell failed to stop them. However, a happy thought struck Miss Cronan, one of the ladies present and she sallied forth with a big silver dollar which she gave to the man playing the trombone. The members of the band listened to her pitiful plea, they spied a wagon full of watermelons down the street and fortunately no more music was heard the balance of the meeting.

S.

Fancy and Dagger FERNS $1.25 per 1000
Discount on large orders.
New Crop Galax, Bronze or Green, $1.25 per 1000: 10,000, $7.50
Sphagnum Moss, large bales, $1.25
Leucothoe Sprays, $1.00 per 100; 1000, 7.50
Boxwood, 35c per bunch; 50 lbs., 8.50
Florists in the Middle and Western States can save money by placing their fern orders with us. A trial order solicited.
MICHIGAN CUT FLOWER EXCHANGE, Inc.,
WHOLESALE COMMISSION FLORISTS,
38-40 Broadway, All Phone Connections. DETROIT, MICH.

New Crop Hardy Cut Ferns
FANCY and DAGGER.
50c per 1000.
Laurel Roping, Fine quality, 5c per yard.
Bouquet Green, in bulk or roping 7c per lb 5c per yd.
Sphagnum Moss, fine qualty, 60c per bbl
Florists' Supplies of all kinds.
Cash with all orders.
All orders promptly attened to
THOMAS COLLINS,
Box 241, HINSDALE, MASS.

WM. C. SMITH
Wholesale Floral Co.
WHOLESALE FLORISTS
1316 Pine St., Both L. D. Phones. ST. LOUIS, MO.
Supplies and Everything in Season always on hand.

—THE—
J. M. McCullough's Sons Co.,
Wholesale Commission Florists.
— CONSIGNMENTS SOLICITED. —
Special attention given to Shipping Orders.
Jobbers of FLORISTS' SUPPLIES, SEEDS and BULBS.
Price List on Application.
316 Walnut St., CINCINNATI, OHIO.
Phone Main 584.

New Crop Ferns
FANCY and DAGGER ready May 1st.
Special price for large orders
Price $1.25 per 1000.
CALDWELL THE WOODSMAN CO.,
Evergreen, Alabama.

Ferns NEW CROP. Fresh from the patch
Fancy and Dagger Ferns, $1.00 per 1000.
Discount on large orders. If you want the cream of the season, send orders now. Sixteen years' experience. Send cash with first order.
Green Galax, 50c per 1000.
J. N. PRITCHARD, Elk Park, N. C.

H. G. BERNING,
Wholesale Florist,
1402 Pine St., ST. LOUIS, MO.

Wholesale Flower Markets

ST. LOUIS, July 21.

Roses, Beauty, long stems	2 00@ 2 50
" " medium stems	1 00@ 1 50
" " short stems	25@ 75
" Kaiserin	2 00@ 6 00
Carnations, fancy	2 00@ 2 50
" common	1 00@ 1 50
Lily of the Valley	2 00@ 3 00
Asparagus Sprengeri	1 00@ 2 00
" cut sprays	1 00@ 2 00
Ferns, fancy per 1000	2 00
Smilax	12 50

CINCINNATI, July 21.

Roses, Beauty	$1 00@$ 4 00
" Bride, Bridesmaid	3 00@ 6 00
" Golden Gate	3 00@ 6 00
" Killarney	4 00@ 6 00
" Richmond	4 00@ 8 00
Carnations	2 00@ 3 00
Asters	1 00@ 2 00
Lilium Harrisii	12 50
" Rubrum	4 00
Lily of the Valley	3 00@ 4 00
Adiantum	1 00
Asparagus Plumosus and Sprengeri in bunches, per bunch	25c@35c
Boxwood per lb.	15c
Ferns, Eastern per 1000	$1 50
Galax, Green and Bronze	1 00
Leucothoe per 100	50
" per 1000	4 50
Smilax	1250@15 00

BUFFALO, July 21.

Roses, Beauty, special	20 00@25 00
" " fancy	15 00@20 00
" " shorter	2 00@10 00
" Bride, Bridesmaid	2 00@ 8 00
" Killarney	2 00@ 8 00
" Richmond	3 00@10 00
" Short	2 00@ 3 00
Asters	1 00@ 1 50
Carnations	1 00@ 2 00
Gladiolus	3 00@ 5 00
Lilium Longiflorum	8 00@12 00
Lily of the Valley	3 00@ 4 00
Snapdragon	1 00@ 2 00
Sweet Peas, outdoor...doz. bu	50@ 1 00
Water Lilies	2 00@ 3 00
Asp. Plumosus strings...each	50@ 60
Ferns per 1000	1 50
Galax per 1000	1 50
Smilax strings	15 00

RICHMOND, IND.—Fred H. Lemon & Co. is the title of the firm succeeding to the retail business of the E. G. Hill Co. The letter head notes the fact that the new concern operates greenhouses east of the city.

DAYTON, O.—Walter Matthews, after a hard year's study of the floral business all through the large cities in the west, has returned and is again at his old post of duty with his father; they are busy all the time.

FREMONT, NEB.—H. C. Green has completed the work of tearing down the old greenhouses and has begun the erection of the new ones. Larger ones will be put up with modern devices for heating and ventilating. When completed there will be 28,000 square feet of glass, an increase of about 10,000 square feet over the old buildings.

Summer Roses

We make a specialty of **Kaiserin, Pres. Carnot, Killarney, Richmond, Perles** and **New Beauties** during the hot weather, and have built cold storage facilities to handle **Summer Roses** alone.

PRICE LIST

AMERICAN BEAUTIES.

	Per doz.
Extra long	$2 00 to $2 50
20 inch	1 50
15 to 18 inch	1 00
12 inch	75
Shorter stems	50

KILLARNEY, BRIDE, RICHMOND and PERLE Per 100

Long	$6 00
Good average lengths	5 00
Medium lengths	4 00
Short lengths	$2 00 to 3 00

KAISERIN, CARNOT, Per 100

Long and select	$8 00
Good average lengths	$5 00 to 6 00
Medium lengths	4 00
Short lengths	3 00

Short Roses in not less than 500 lots, per 1000 $20 00

CARNATIONS. Per 100

Long, Red O. P. Bassett	$1 50 to $2 00
White and Winsor	1 00 to 2 00
Enchantress	1 00 to 2 00

EASTER LILIES, per 100	$10 00
" " per doz	1 50
LILY OF THE VALLEY, per 100	2 00 to 3 00
ASPARAGUS, per string	50 to 60
ASPARAGUS SPRAYS, per 100	2 00 to 3 00
SPRENGERI, per 100	2 00 to 3 00
SMILAX, fine, per doz	1 50
ADIANTUM, per 100	1 00
GALAX, green and bronze, per 1000	1 25
FERNS, new crop, per 1000	1 50

BASSETT & WASHBURN

Store and Office: 76 Wabash Ave. **CHICAGO** **Greenhouses: HINSDALE, ILLINOIS.**

Headquarters for
Society of American Florists

IN CINCINNATI

The Most Centrally Located Hotel in the city.

Club breakfasts 25c to $1 00. Special low-priced luncheon and supper menus with highest class metropolitan service.

The Gibson House

European Plan.
C. A. BURKHARDT., Mgr., **Cincinnati, O.**

Baltimore.

NOTHING DOING.

We have had a week or two of ideal summer weather. The community is healthy, almost distressingly healthy, the mortuary lists are smaller than for years, and with one or two exceptions funerals which involve large floral displays have been lacking. The state of trade is indicated by the averment of one of the Charles street florists that "It is just like heaven. There is no death there; neither is there any marrying, nor giving in marriage." The hospital demands continue; the great public establishments and the private retreats maintained by physicians and surgeons, and to them go perennial streams of flowers, lovely messengers of remembrance and sympathy and hope.

NOTES.

The semi-annual meeting of the stockholders of The Florists' Exchange was held July 12. The occasion was a formal one only and no business was transacted except to approve the distribution of a dividend of $5 per share which had been voted by the directors. The report of the board showed that notwithstanding the general dullness still prevailing there was a very substantial increase in the business done by the concern—over $1,000 a month—and a comfortable sum added to its actual capital.

The State Horticultural Society will hold its midsummer meeting at Mountain Lake park, July 30 to August 2. This is an elevated section, a delightful place for such assemblages and convenient to the mountain fruit region, which will be visited by the members. Papers will be read and discussed, reports of officers received and a general good time enjoyed by all who attend the session.

Fred'k C. Bauer is sending in some fine America gladioli. In the general scarcity of flowers considerable employment is found for these for funeral work, the individual flowers being wired, and replacing roses, etc.

A batch of some 500 Harrisii lilies came into the Exchange on Saturday from a northern shipper, but the state of the market was such that they did not seem to be taken up.

The Charles street stores, apparently by agreement, have cards in their windows announcing that they close now at 1 o'clock on Saturdays and at 5 on other days. S. B.

C. A. KUEHN,
Wholesale Florist,

1122 Pine St., ST. LOUIS, MO.
A Complete Line of Wire Designs.

RICE BROTHERS

Wholesale Florists and Supplies.
115 N. 6th St., MINNEAPOLIS, MINN.

Cut Flowers received twice daily. Can fill your orders to your satisfaction. Also headquarters for **Wild Smilax, Boxwood, Galax Leaves, Hardy Fancy Ferns.** Prices quoted on large quantities.

Shibeley-Mann Co., Inc.

WHOLESALE DEALERS IN
FLORISTS' SUPPLIES and Cut Flowers
1203 Sutter St., SAN FRANCISCO, CAL.

LENOX, MASS.—A greenhouse, 25x125 feet, will be erected at Eden Hill, Stockbridge, the S. W. Woodward property.

SALEM, VA.—J. J. Curran has left this vicinity and is at Clifton, N. J., pending either going into business again or some other fair proposition. He would like to locate either west or north, as his wife does not care for the south.

Wietor Bros.,

Wholesale Growers of ..CUT FLOWERS..
51 Wabash Avenue, CHICAGO.

—PRICE LIST—

	Per doz.
American Beauty Long stems	$ 4 00
30 inch stems	3 00
24 inch stems	2 50
20 inch stems	2 00
15 inch stems	1 50
Short stems	75

	Per 100
Killarney, select	$6 00
Medium	4 00
Mrs. Jardine, select	6 00
Medium	$3 00 to 4 00
Uncle John, select	6 00
Medium	3 00 to 4 00
Bridesmaid and Bride, select	6 00
Medium	4 00
Richmond, select	6 00
Medium	4 00
Carnations, fancy	1 50
Good	1 00
Easter Lilies, short	8 00 to 12 00
Select	15 00
Valley	2 00 to 4 00

Asparagus Plumosus
Extra quality, per bunch 75c
Fancy Ferns, per 1000 $ 4.00

All other stock at lowest market rates.
Prices subject to change without notice.
No charge for packing.

Weiland & Olinger,

128 E. Third St., CINCINNATI, OHIO.

Wholesale Growers and Shippers of Cut Flowers.

Carnation Georgia $12.00 per 100 $100.00 per 1000
Greenhouses, NEW CASTLE, IND.

Holton & Hunkel Co.,

WHOLESALE FLORISTS,
462 MILWAUKEE STREET,
MILWAUKEE, WIS.

H. N. BRUNS,

1407-11 W. Madison St., **CHICAGO.**
LILY OF THE VALLEY.

Killarney Never before at this season have we shown Killarney, with such perfect coloring and long stems. **Auratum Lilies** are coming in good shape. Fine substance. Will ship well.

GLADIOLUS, CARNATIONS and FANCY VALLEY are the best the market affords.

Headquarters for **FANCY FERNS.**

Complete Stock of Florists', Growers' and Nurserymen's Supplies.
Send for our Weekly Price List unless you receive a copy regularly.

A. L. RANDALL CO., 19-21 Randolph Street, Phone Central 1496. Private Exchange All Departments. **Chicago.**

Chicago.

At this season of the year it is expected that there will be very little call for cut flowers, and everyone is realizing their expectations. There are some few good summer roses on the market, for which there is a fair demand, and they bring relatively fair prices; but the great bulk of the stock that is offered is poor and is selling for a song, with very few singers. Asters are in in very limited quantity and are bringing from one to two cents, but at this writing there is not enough for shipping purposes, what few there are being taken by the local trade.

The glut of sweet peas has subsided and is more nearly normal, but, like everything else, the price is whatever they will bring. Peonies are a thing of the past as far as demand is concerned, and those remaining in cold storage look like almost a total loss, as nobody wants them. Carnations are in the same boat, are small and soft and have little call; in fact, the market has reached that stage of summer dullness where everyone is simply waiting for the fall season to start.

NOTES.

W. A. Reiman, who was in the city this week, is very enthusiastic on the subject of peonies and outdoor flowers generally. The soil at Vincennes, Ind., where his peony farms are located, is a fairly heavy clay, in which, when once the plants are established, they make a magnificent growth. Mr. Reiman is going largely into bulb planting. He will go heavily into narcissi and will try out lilies and, if they turn out well, he will increase his plantings. Enthusiastic and willing to launch out into any promising scheme, he deserves all the success he is getting in his business.

Wm. Murphy, Cincinnati, O., circulated around the market the early part of the week getting orders for advertising banners from the local men for display at the S. A. F. convention. Mr. Murphy reports that everything will be in readiness on August 17, and that all arrangements have been completed for showing the boys a good time, and that a record-breaking attendance is looked for.

C. L. Washburn and a party of friends will be the guests of O. P. Bassett on an automobile trip to Lake Minnetonka next week. They will start from Hinsdale July 27 and expect to be gone about a week.

J. J. Waaland, of J. J. Waaland & Co., Findlay, O., was on the market the early part of the week on his way to Iowa, where he will spend a two weeks' vacation. He says they have sold more palms this year than in the past three years.

A. R. Urion is the new president of the board of education. The trade should perfect their plans to call on the board when it reconvenes in the fall and place the matter of flowers at school exercises before it.

W. W. Abrahamson has given up his cut flower business and associated himself with M. Shattls as selling agents for the ribbon house of Lyon & Co. They are doing business as the Abrahamson-Shattls Co.

Chas. Schneider, doing business as the Central Floral Co., 68 State street, has closed his doors and filed a petition in bankruptcy. It is understood that he owes about $5,000 on the flower market.

Nick Wietor, of Wietor Bros., returned on July 20 from a two weeks' fishing trip to Tomahawk lake. Nick is pretty well browned up and brings back some wonderful fish lore.

The Geo. Wittbold Co. reports that its outside work is keeping up remarkably this year and the volume of business is almost four times as great as that of last season.

S. D. Dysinger, of Holm & Olson, St. Paul, Minn., was in town July 20 enroute to Buffalo, where he has been called by the serious illness of his mother.

The committee on arrangements for the Florists' Club picnic met at Zech & Mann's Wednesday evening, July 21, and completed final arrangements for the picnic July 22.

J. H. Prost, city forester, has returned from the east. He is reported bringing tree seeds with him and disposed to have the city start a nursery.

Uncle John Thorpe died July 15. Further particulars and a sketch of his career will be found on pages 1314 and 1315.

President W. E. Kelly of the Horticultural Society is on the sick list at his country home in Oconomowoc, Wis.

Joe Foerster, of the J. B. Deamud Co., returned July 20 from Canada, where he went to bury his father.

Fred Meyer, foreman for the Geo. Wittbold Co., leaves next week for a vacation trip through Indiana.

Otto Goerisch, with A. L. Randall Co., leaves July 24 for Paw Paw lake, to be gone two weeks.

Vaughan's Seed Store received the first carload of Lilium Harrisii July 20.

The Jensen & Dekema greenhouses are reported out of commission.

Visitors:—Edward Roehrs of Julius Roehrs Co., Rutherford, N. J.; S. D. Dysinger, with Holm & Olson, St. Paul, Minn.; Mrs. Spickerman of the Sandwich greenhouses, Sandwich; Wm. A. Reiman, Vincennes, Ind.; C. C. Arnold, Manchester, Ind.; H. E. Philpott, Winnipeg, Man.; J. J. Waaland of J. J. Waaland & Co., Findlay, O.; Wm. Murphy, Cincinnati, O.; J. D. Carmody, Evansville, Ind.; — Fischer, a carnation grower with Wm. Blackman & Sons, Evansville, Ind.; Wm. Metzger, Winona; G. J. Murphy, Manistee, Mich.; H. M. Burt, Battle Creek, Mich.

Lake Forest Show.

The third annual exhibition of the Horticultural Society of Lake Forest, Ill., was held at that place July 21. The display of flowers, fruits, vegetables and plants was very fine and the exhibition on the whole was a great improvement on its predecessors. The trade exhibitors included the Julius Roehrs Co., Rutherford, N. J., orchids and ornamental foliage plants. Vaughan's Seed Store, Chicago, hardy herbaceous perennials and greenhouse stock; Swain Nelson & Sons Co., Chicago, specimen shrubs. A. B. Dick's collection of stove plants, including many handsome fancy leaved caladiums, was especially noteworthy. Trade visitors included Ed. Roehrs, of the Julius Roehrs Co., Rutherford, N. J., Alex. Rennie representing A. H. Hews & Co., Chicago, Geo. Sykes, of the Lord & Burnham Co., Chicago and Carl Cropp of Vaughan's Seed Store. The judges in flowers and plants were Geo. Woodward, Chicago, Wm Longland and C. H. Gebhard, Lake Geneva, the awards in vegetables being made by Chas. Reardon, Chicago, and Robt. Sampson and Axel Johnson, Lake Geneva, Wis.

PETER REINBERG

Grower and Wholesaler of

Cut Flowers

1,800,000 Square Feet of Glass.

HEADQUARTERS FOR AMERICAN BEAUTY.

51 Wabash Ave., CHICAGO.

Quality Counts.

Let us have your next order for
Roses and Carnations
and other Seasonable Flowers.

JOHN KRUCHTEN,
51 Wabash Ave., CHICAGO.

Zech & Mann

Wholesale Florists

Room 218, 51 Wabash Ave., CHICAGO

Telephone, Central 3284.

DIXON, ILL.—C. H. Fallstrom has opened the Dixon Flower Shop at 106 East First street.

COLFAX, IOWA.—W. H. Drake, formerly of Kenosha, Wis., is now with the Hotel Colfax.

CALUMET, MICH.—Miss Jennie Williams of Laurium has accepted a position with the Lakeside Floral Co.

ROSEMONT, PA.—Gordon Smirl, for 16 years head gardener at Joseph Sinnot's place, has resigned his position there owing to the fact that, since the death of Mr. Sinnot, this gentleman's widow does not wish to carry on the place so extensively. Such an excellent gardener and successful exhibitor as Mr. Smirl should not be long out of a good position.

CHARLOTTE, N. C.—E. Scholtz has purchased the Dilworth Floral Gardens from John and James L. McPhee, and in the future the floral interests will be controlled by one concern. Edward Scholtz is an expert in his line and has one of the neatest and most attractive floral display houses in the state. The Messrs. McPhee will return to their old home in Canada.

Cut Flowers E. H. HUNT

FOR ALL OCCASIONS.
FLORISTS' SUPPLIES TOO.

——SEND FOR PRICE LIST.——
76 Wabash Avenue, CHICAGO.

E. C. AMLING

THE LARGEST,
BEST EQUIPPED,
MOST CENTRALLY LOCATED
WHOLESALE
CUT FLOWER HOUSE
IN CHICAGO.

32, 34, 36 Randolph Street, CHICAGO.

L. D. 'Phones Central 1978 and 1977.

Long Distance Phone, Central 6004. Catalogue Free.

Winterson's Seed Store

45-47-49 Wabash Ave., CHICAGO.
Plantsmen, Nurserymen, Seedsmen and Florists' Supplies.

"The Busiest House in Chicago."

J. B. DEAMUD CO.,

51 Wabash Ave., Chicago.

KENNICOTT BROS. COMPANY

WHOLESALE CUT FLOWERS

48-50 Wabash Ave., Chicago
L. D. Phone, Central 466.

We will have anything in the line of
CUT FLOWERS and GREENS
that you may want if anybody has it at
Chicago market prices on day of shipment.

Wholesale Flower Markets

CHICAGO July 21.

Roses. Beauty, extra select		3 00
" " 30 in		2 50
" " 24 in		2 00
" " 20 in		1 50
" " 12 in		1 00
" " Short		75
		Per 100
" Bride, Bridesmaid, select		4 00@ 6 00
" " " medium		3 00@ 4 00
" Chatenay, Sunrise		3 00@ 6 00
" Golden Gate, Uncle John		3 00@ 6 00
" Kaiserin		3 00@ 6 00
" Kate Moulton		3 00@ 8 00
" Killarney, select		6 00@ 8 00
" " medium		4 00@ 5 00
" Mrs. Marshall Field		4 00@ 6 00
" Mrs. Potter Palmer		4 00@ 8 00
" Perle		6 00@ 8 00
" Richmond, extra select		6 00@ 8 00
Carnations, select, fancy		1 50
" common		1 00
Asters		1 00@ 2 00
Cattleyas	per doz.	6 00
Daisies		75@ 1 00
Lilium Harrisii per doz. 1 50@2 00		15 00
Lily of the Valley		3 00@ 4 00
Peonies, select		2 00@ 6 00
Sweet Peas		35@ 75
Adiantum		75@ 1 00
Asparagus Plum. strings	each	50@ 60
" sprays		2 00@ 4 00
" Sprengeri		2 00@ 00
Ferns	per 1000	2 50
Galax, green	per 100 15; per 1000	1 00
" bronze	per 100 15; per 1000	1 00
Leucothoe sprays		75@ 1 00
Smilax strings	per doz.	1 50

CHAS. W. McKELLAR,

51 Wabash Ave.,
CHICAGO.

ORCHIDS
A Specialty

Fancy Stock in Peonies, Valley, Roses, Beauties, Carnations and a full line of all Cut Flowers, Greens, Wire-Work and Florists' Supplies.

Send for Complete Catalogue.

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Ave., CHICAGO.

Always mention The American Florist when you order stock. : : :

Weiland & Risch

Wholesale Growers and Shippers of
Cut Flowers
Phone Central 879.
Write for our wholesale price list.
59 Wabash Avenue., CHICAGO.

Vaughan & Sperry,

Wholesale Florists,
52 and 54 Wabash Ave., CHICAGO.
WRITE FOR SPECIAL PRICES

POEHLMANN BROS. CO.

Wholesale Growers of and Dealers in
Cut Flowers
All telegraph and telephone orders given prompt attention.
Greenhouses: MORTON GROVE, ILL.
32-37 Randolph St. CHICAGO.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.
Roses and Carnations A Specialty.....
WHOLESALE GROWER of CUT FLOWERS

The Benthey - Coatsworth Co.

35 Randolph St. Wholesale Florists CHICAGO.

Send Advts. Early for Best Display and Position.

☛ NOTICE!

Manhattan Flower Market WHOLESALE FLORISTS

Telephone: 1016 Madison Sq. 46 W. 28th St., NEW YORK

Ship us some stock. We need a large supply of all kinds of flowers, **Roses, Carnations, Sweet Peas, Narcissus, Summer Stock, etc.,** for our new store. Reliability and responsibility first-class. Good prices and prompt returns. Good opportunity.

New York.

GOOD STOCK SCARCE.

The wholesale district is very quiet. Good rose stock is scarce, but the demand being light and plenty of ordinary stock about, but little attention is paid to that fact. A few carnations have held out to meet the asters, but they are very small, though finding favor with many in preference to the latter. But few good asters are coming in, the dry weather having a very bad effect on the crop as well as on the sweet peas, which are growing scarcer in the market. There were local showers on July 18, but there has been no general rain, and Long Island and other sections in proximity to the city are suffering from drought. The redeeming feature of the weather situation is its coolness, July 19 being particularly so. Gladioli in considerable quantities are now on the market, and when the output of the big farms begins to arrive we may expect a glut. It seems unfair to the small growers that this market should be annually flooded with the product of scores of acres of gladioli, since the flowers at such places are merely a by-product, the business, supposedly, being carried on for the multiplication and sale of the roots. In contrast to the above may be cited the case of the Cottage Gardens Co. during the peony season. That company could have placed on this market thousands of choice blooms, but it was not done.

NOTES.

R. O. King, of the King Construction Co., is in town. He is very much pleased with the building outlook. He has just completed a house 54x570 feet for the John Young Co., Bedford. Mr. Young is very enthusiastic in regard to the new house, as he has a right to be. The King company has also just completed several houses for John N. May, Summit, N. J., and others for Thomas Young, Jr., Boundbrook, N. J. This speaks well for the King style of construction, and Mr. King has almost decided to open an office near to the busiest marts of trade, as his firm has several more prospective orders in sight.

John Fitzsimmons, head of the firm of Fitzsimmons & Rooney, of 161 Court street, Brooklyn, is one of the oldest retailers in this city. He has conducted a store at the present location for 40 years. Though 77 years old, he is always to be found at the store, and when occasion requires he pitches in and works like one of the boys. He has interesting reminiscences of the past generations of florists. In speaking of the former firm of Dailledouze, Zeller & Gard, which introduced carnations into this country, he recently said: "They were all good men and good friends of mine."

We learn that John P. Scherer, of Union Hill, N. J., and Felix J. Bernstein, formerly a retailer of this city, have formed a partnership and incorporated, and about September 1 will open a store at 106 West Twenty-sixth street, to deal wholesale in florists' greens and supplies. The firm name will be Scherer & Co.

Chas. Haberman, of 2668 Broadway, is one retailer who does not get into the doleful dumps when the summer dullness arrives. On a recent visit we were struck with the fine display of flowering and foliage plants in front of his store. He has recently executed a large amount of funeral work.

It is rumored that a retail store will soon be opened on Broadway by an actress. We have known for some time that there were some pretty good actors in the business, so the advent of this lady will greatly help to round out the attractions.

Charles Zeller & Son, who have two ranges in Brooklyn, have sold the one on Clarkson street, Flatbush, to Louis Schmutz, Sr., though we understand that they will retain possession until the beginning of another season.

John I. Raynor, in addition to a good general stock, is now handling large lots of fine lilies; in fact, his store is the Twenty-eighth street headquarters for lilies.

John Seligman left, July 17, for an extended sojourn among the Thousand Islands. During his absence Jos. J. Levy will be boss.

Greek meets Greek at Witzel's Point View grove, College Point, July 29, to drive dull care away at their annual picnic.

The store of the Newman Floral Co. (Inc.), at Fifth avenue and Madison square, has been closed.

Glen Cove, N. Y.

The Nassau County Horticultural Society held its regular monthly meeting in Pembroke hall July 14. President Everett occupied the chair. The secretary read communications from the following ladies and gentlemen and seed houses offering special prizes for the fall show: Mrs. J. Barnes, Oyster Bay, $10; Mrs. Bucknall, Glen Cove, $5 for a vase of Winsor carnations; Mrs. Smithers, Glen Cove, a vase for the best collection of outdoor flowering chrysanthemums, the vase to be won three times before becoming the property of a competitor; Stumpp & Walter Co., $10; J. Roehrs, $10; P. Henderson, $10; Rickards Bros., $10; H. Weeks, Seacliff, $5. The judges for the monthly competition were Messrs. Johnston, Duthie and Garrett. The awards in the points competition were as follows: V. Cleres, 85 for vase of poppies; P. Reul, 82 for sweet peas; H. Gant, 78¼ for antirrhinums; G. Wilson, 75 for fuchsias. G. Wilson, G. Ashworth and P. Reul were each awarded a cultural certificate for sweet peas. For a vase of platycodon and Stokesia cyanea, J. Drombosky received honorable mention. H. J. Trepass and V. Cleres received a like award for cucumbers and sweet peas, respectively. The society is to join Tarrytown Horticultural Society in its outing to Rye Beach August 11.

The summer show, which was held on June 23, was a success. Quite a number of residents visited it during the afternoon and evening. C. H. Totty, Madison, N. J.; H. J. Turner, Port Washington, and Wm. Marshall acted as judges. Their awards follow:

Collection of tea roses—J. F. Johnston, first; H. Fleishhand, second.

Vase H. P. roses—J. Parton, first; J. Ashworth, second; H. F. Fleishhand, third.

Twenty-five roses—H. Gant, first.

Vase climbing roses—H. Gant, first.

Collection H. teas—J. F. Johnston, first.

Collection of sweet peas—A. Mackenzie, first; Wm. Fleishhand, second.

Best three vases sweet peas—W. Fleishhand.

Vase herbaceous flowers—A. Mackenzie, first; P. Andevart, second.

J. Everett was awarded a cultural certificate for a collection of roses. J. Holloway, cultural certificate for collection of herbaceous flowers. P. Keul was awarded a cultural certificate for Gladiolus America and Augusta. One of the most interesting features of the show was a vase of Gerbera Jamesoni shown by A. Jaenicke, Floral Park.

The yellow seedling carnation which I stated in error in my note of the June meeting was grown by J. Trepass should have been credited to Wm. Eccles. W. H. M.

25th Annual

Trade Exhibit

OF THE

Society of American Florists

and Ornamental Horticulturists

TO BE HELD

AT CINCINNATI

Aug. 17th to 20th (inclusive)

For space and rates apply to

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Burnet House

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One of the largest and best hotels in the city. Over 200 fine suites of rooms with private baths, and 150 rooms with hot and cold running water. All modern comforts and conveniences.

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Write for rooms or for further information.

T. J. CULLEN, Manager.

PHILADELPHIA, PA.—J. Peterson, 608 East Penn street, has been given a permit for a new greenhouse, 15x70 feet.

ROCKVILLE, CONN.—Calverly & Risley have decided to put in their own lighting plant in Citizens' block, where they are located.

MILLBROOK, N. Y.—Wm. C. Russell's new greenhouse is in the hands of painters now. It is about 70 feet long. Mr. Russell will now be fully equipped to meet the needs of his rapidly increasing business.

1887 Telephone 167 Madison Square. 1909

J. K. ALLEN, Wholesale Commission Florist, Established 1887. 106 West 28th Street, NEW YORK CITY.

Open the year around to receive shipments of Cut Flowers.

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44 West 28th Street, New York City.

Phones, 798 and 799.

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On the ground floor of New York Cut Flower Co. and Cut Flower Exchange,

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Open from 6 a.m. to 6 p.m. The "Hub" of the Wholesale District.

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J. J. COAN, Manager. Consignments Solicited.

Telephone 6237 Madison Square. 39 West 28th Street, NEW YORK

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34 WEST 28th STREET

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—FLOWERS SHIPPED BY—

JOHN I. RAYNOR

Are the best product of the best growers for the New York Market.

Adiantum Croweanum sold here exclusively.

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Open for Cut Flower Sales at 6 o'clock Every Morning.

Desirable Wall Space to Rent for Advertising.

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KESSLER BROS.

50 W. 28th St., NEW YORK.

CUT FLOWERS

Wholesale Plantsmen and Florists.

Phone 2336 Madison Shipments Everywhere. Prompt and satisfactory. Consignments solicited.

New York to Cincinnati.

The transportation committee of the New York Florists' Club announce that arrangements have just been made with the New York Central lines to provide a special train to leave New York (Grand Central station) as a second section of the "Second Empire," 12:40 p. m. Monday, August 16, 1909, stopping at Albany at 3:57 p. m., Utica 6:04 p. m., Syracuse 7:15 p. m., Rochester 9:05 p. m. and Buffalo 11:15 p. m., due to arrive in Cincinnati 10:45 a. m. next day. The train will consist of buffet library smoking car, dining car and high-class standard Pullman sleeping cars.

It is expected that the Boston and New England delegations will join our party at Albany, and up-state delegates at Utica, Syracuse, Rochester and Buffalo, traveling together on the same train. The fare from New York to Cincinnati will be $15.15 (provided 10 or more travel together), and fares from other points will be quoted upon application. The Pullman fare for double berth, New York to Cincinnati, is $4; section, $8; stateroom, $11.50; drawing room, $14. Applications for reservations should be forwarded to John Young, secretary, 51 West Twenty-eighth street, who will assign space in sleeping cars in the order in which applications are received.

VALENTINE & CO.

Wholesale Dealers in

CUT FLOWERS

158 East 110th St., Between Third & Lexington Aves. New York City

Wholesale Flower Markets

	NEW YORK July 21.	Per 100
Roses. Beauty, special		15 00@20 00
" " fancy		10 00@12 00
" " extra		6 00@ 8 00
" " No 1		2 00@ 3 00
" " No. 2 and No. 3		50@ 2 00
" Bride, Bridesmaid special.		3 00@ 4 00
extra and fancy		1 50@ 2 00
No. 1 and No 2		50@ 1 00
" Kaiserin Aug. Victoria		50@ 5 00
" Killarney special		5 00
extra and fancy		1 00@ 1 50
" Richmond		50@ 3 00
Carnations fancy and special		1 0 @ 1 50
" common		25@ 50
Callas	per doz.	40@ 50
Cattleyas		10 00@35 00
Coreopsis		25@ 40
Daisies		50@ 1 00
Feverfew	per doz.	50@ 60
Gladiolus		1 50@ 2 00
Gardenias	per doz.	1 00@ 3 00
Lilium Longiflorum		2 00@ 4 00
Lily of the Valley		1 50@ 2 00
Asters		1 00@ 2 00
Sweet Peas	per 100 bunches	50@ 3 00
Asparagus	doz bunches	1 50@ 2 50
Smilax	per doz. strings	75@ 1 50

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WHOLESALE FLORIST,

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All flowers in season. Consignments of first-class stock solicited.

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55 and 57 West 26th Street,

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HORACE E. FROMENT

WHOLESALE COMMISSION.

American Beauty Roses a Specialty. Roses, Violets, Carnations, Valley, Lilies, Etc.

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Telephones: 2200 and 2201 Madison Square.

Mention the American Florist when writing

Walter F. Sheridan

WHOLESALE FLORIST,

Telephones: 3532 and 3533 Madison Sq.

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Young & Nugent,

Telephone, 2065-2066 Madison Sq.

42 West 28th St., New York

To out-of-town Florists: We are in the Heart of

And give Special attention to Steamer and Theater orders. Prompt deliveries and best stock in the market.

FORD BROS.,

Receivers and Shippers of

Fresh Flowers

48 West 28th St., NEW YORK.

Telephone 3870-3871 Madison Square.

Philadelphia.

TRADE VERY DULL.

There is but little change in the situation, business being very dull. The stock is good for the season, new crop American Beauty, My Maryland, Carnot and Kaiserin roses showing up well. Asters are now becoming a factor, and with these and the roses, together with the showy gladiolus, there is a fair showing in most of the boxes of the retailers. Lily of the valley is grading better and the orchid supply is equal to the demand. Recent thunder storms and local showers have helped the outdoor stock. Sweet peas are more plentiful and coming in better shape. There is quite a lot of stock shipped for out-of-town demand, the seashore resorts buying largely for Saturday and Sunday business.

BUILDINGS UNDER WAY.

The busy men at this time are the builders. The Robert Craig Co. has finished glazing the new houses at Norwood; the erection of this range has been done in double-quick time and the benches are all planted with carnations, fine stock plants that had been growing in pots outdoors. When fully completed this will be an ideal place, as several new ideas in heating, ventilating and other time-saving arrangements are being tried out with every chance of success. At the Florex Gardens the large house is about one-fourth completed; one end is in and about 180 feet in length is up and glazed. Improvements in the bracing and framework of the roof makes the roof present a very even surface such as is seen in the usual smaller structures. The large scaffolding is used alike by all the different hands engaged in the erection; those who fit the iron framework together give way to the carpenters, who fit the sash bars; then the heating gang attach the steam pipes, which are all suspended from the roof; these are followed by the glaziers, who are doing rapid work, keeping up with and, in fact, sometimes waiting for others. There are but two men engaged in laying the glass, each having two boy helpers, who put in the putty and hand up the glass, which is set at the rate of 30 boxes a day, size 16x24. The large scaffolding is bolted together in sections and men are constantly taking from one end and adding to the other, there being no stoppage in construction as the work goes on. A heavy windstorm on Sunday last gave the unfinished work a severe test, but a careful examination failed to show any damage whatever. The two large houses, 35x300, at John Welsh Young's new place at Roslyn Heights are completed with the exception of the heating arrangements and planted with roses, the assortment comprising American Beauty, My Maryland, Richmond and white and pink Killarney.

NOTES.

M. Becker, of the Avondale Floral Co., of Cincinnati, was a visitor this week. He speaks enthusiastically of the convention spirit in his city and predicts it will be the largest in the history of the society.

We read with pleasure the letter of Willis N. Rudd, the genial secretary, in reference to the elaborate preparations that are being made for the comfort of the delegates.

McKissick is carrying an exceptionally fine stock of imported and new crop local-grown American Beauty roses. Easter lilies are also good.

The Leo Niessen Co. offers as a leader a fine stock of asters, high-grade flowers; new crop American Beauty roses are also a feature.

B. Eschner, representing M. Rice & Co., expects to start on his western and convention trip next week.

K.

Faculties of Plants.

CONCLUDED—SEE PAGE 1104, ISSUE JULY 3.

A large number of species of plants has become sensitive to the touch or blow of a solid object in a manner broadly analogous to the touch reactions of animals. One form of this reaction is exhibited by plants which climb by the aid of tendrils. Tendrils are generally long, slender organs sensitive on one surface only, although in some species the percipient cells cover the entire surface. When one of these organs comes into contact with a solid object the outer sensitive cells are stimulated and communicate an impulse to cells not far distant and curvature ensues within a second, or a few seconds at most, which generally results in curling the organ around the object. Singularly enough these organs distinguish between a touch and a blow. The rudest shock or jar does not set the tendril in action, so long as the sensitive cells do not receive a pressure of some continuity, but the most delicate contact of the smallest object will cause stimulation. Thus a bit of spider's thread or the finest silk fiber weighing not more than the fiftieth of a grain will serve to excite curvature. Water, or even as heavy a liquid as mercury, will not cause curvature when poured over a tendril, but if minute particles of chalk are suspended in the water the repeated contact of these bodies will set up a reaction. This is, in fact, an appreciation of the difference between pure and muddy water, which is probably beyond the capacity of any organ of touch of the human body. After a tendril has grasped a support by means of the above mechanism, the free portion of the organ is thrown into a corkscrew, which has the effect of pulling up the stem and anchoring it by an elastic spring.

THE SENSITIVE PLANT.

The sensitive plant (mimosa), a small decumbent shrub native to the tropics, offers a striking illustration of another form of sensitiveness to mechanical stimuli, by which shocks and blows, but not contact are appreciated. The base of the leaf-stalk is attached to the stem by a highly developed pulvinus, or motor organ. The slightest shock or jar will cause this motor organ to act, and the leaf is quickly dropped through an arc of 90 degrees. If a stronger stimulus is given, an impression is conveyed up and down the stem to other leaves, and the effect of a single snip of the scissors on a leaflet may be transmitted through a stem a yard in length at a rate of a third of an inch per second, in a manner highl reminiscent of the action of nerves.

The space at command does not allow even a simple description of all of the capacities for adjustment to the external world displayed by plants. In addition to making external responses, or reactions to external forces, a perfect correlation exists between the different organs by which efficient co-operation is secured. Nowhere is this better illustrated than in the common poppy. During the growth of the flower stalk and bud, they are held in the form of a shepherd's crook with the bud pendulous from the tip. When the innumerable divisions and the complicated quadrille of the chromosomes in the ovary of the flower have finally brought the precious egg-cells to a stage where they are ready to receive the chromosomes from the elongating pollen-tubes, the completion or attainment of this stage results in a signal being sent to the curved stalk a few inches away, and it quickly straightens; as the bud expands simultaneously the saucer-shaped flower opens and faces the sky ready to receive the fertilizing pollen. Once this is received the changes ensuing result in sending off a second signal to the motor zone of the stalk and the curvature reforms the shepherd's crook, which holds the capsule pendulous to drop the seeds when mature.

In no instance, however, does the activity of the plant involve choice or decision, or anything except the most generalized form of consciousness. The sensory functions are purely reflexive, and there is no central organ where impressions are received, and from whence signals are sent out, but the percipient organs themselves send impulses direct to the motor tracts.

NOT DEGENERATES.

It is to be seen, therefore, that plants are not degenerates, nor are they lower than animals in any sense; no matter what development they may achieve, or what progress they may make in improvement, they become more widely separated from the animal. Instead of being a lower branch of the phylogenetic tree which has produced animals, they form a separate phylum arising from the common substratum of primitive protoplasm. They constitute a distinct group following a path widely divergent from that of animals, and make the numberless adjustments necessary to their continued existence by a set of sensory faculties wholly characteristic.

The Birth of a Classic Rose.

In the matter of rose ideals, says a writer in the London Times, the public shows a rather curious unconcern. It accepts the last novelty with conviction, but of the rationale of raising new varieties it knows nothing; it does not know the names of the raisers, men who are benefactors of their race in a way that might be envied by some of much larger report in the world. The perseverance and long-sighted care, the methodical acceptance of disappointments, the gift of catching at happy chances, all of which go to the making of a memorable new rose, have their own reward, perhaps, when once in a dozen years or so a star of the first magnitude, a Gloire de Dijon, a Jacqueminot, a La France, rises upon the rosarian horizon. The rewards of the patient workers at crossing and proving are, in terms of fame at least, quite incommensurate with their best achievements. They might be larger if the duties of the hybridist and the ethics of his art were better defined and understood.

In the order of roses alone there is a saddening tale of misdirected energy in the innumerable names which fill the lists of novelties and drop into oblivion year by year. The rare event of the birth of a classic rose, a "type" which survives the incessant "improvements" of the shows, must have set against it the wilderness of rubbish, the coarseness, the meretricious form, the repugnant color, the difficult habit. We want a recognition of some canon of taste in rose raising, as in all horticultural development. At least, certain principles might be kept in view, such as the necessary connection between bigness and hardiness and the elements of purity in tint, and the question might at least be moved whether there is not for roses, as for men, a proper size and stature, beyond which they are gigantic and altogether uncomfortable.

A hybridist with a spark of imagination in him might reach unsuspected heights, but let him always bear in mind the origins from which he works, the genius of the wild stock, which will not suffer itself to be improved indefinitely in every quality. No richest specimen, at its prime in the June garden, broad-blossomed, symmetrical, glowing with color, thick-petaled, should make him forget the wild dog-rose's infinite delicacy of texture, of hue, of scent, the treasure which he takes away from his first seedling with one hand while with the other he makes it put new glories on.

Field-grown Carnation Plants

Ready Early in July.

Send for List and Prices.

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AMERICAN BEAUTIES

Lily of the Valley, Carnations and all Tea Roses,

In lots of one hundred to one thousand. Phone or wire us.

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Grafted and Own Root Rose Plants

American Beauty, Richmond, Killarney, Kaiserin, Bride, Bridesmaid, Bon Silene, Safrano and Perle.

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W. H. Elliott, Brighton, Mass.

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Wholesale Cut Flowers and Florist Supply House.

Headquarters of Western Pennsylvania Growers.

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Choice Assortment of CUT FLOWERS will be found here.

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WHOLESALE FLORISTS.

Absolutely The Best Possible Service.

Business Hours 7 a. m. to 8 p. m. 1619-1621 Ranstead St., PHILADELPHIA, PA.

Boston.

NO SIGNS OF ACTIVITY.

Midsummer quietness now governs the situation, and there are no signs of activity. The departure and return of vacationists may be easily noted when, between the lulls of momentary business, one of the happy pleasure-seekers may be seen surrounded by an admiring group of listeners. The market is showing unmistakable signs of shortening up and there is no particular stock which cannot be spared for a time at least without beneficial results. Roses are in the same poor condition as for the past few weeks, and the sale for this class of goods has narrowed down to unusual limits. A good line of American Beauty is still available and offers the best value of the collections, running in price from $12 to $25 per 100. Kaiserin is especially adapted for funeral work and is perhaps the best profit yielder. Carnations are dropping out quietly and prices are strengthening up somewhat as a consequence. There is no demand except for working stock, and growers are now losing no time with the first and most important steps identified with next year's goods. Easter lilies, callas and gladioli are in splendid condition. The lily supply is rather unusual, but the goods are of the right quality and find plenty of openings. Sweet peas are in better shape than they have shown before this season and a number of new and attractive varieties have greatly aided the selling of the ordinary crops. Asters are seen scattered about here and there, but have not become sufficiently strong to be considered a market factor yet.

NOTES.

E. Rogean, of the Park Street Market, is one of the summer adventurers, having ambled to the provinces for rest and recreation. As a result of his untiring attention to business "Ed" is pretty well run down and after two weeks at Maspec, N. B., we may expect to see him return splendidly equipped for next season's strain.

Frank Reynolds, for the past four years with N. F. McCarthy, has severed his connection with this firm and is now acting in the interests of several growers, for whose goods he is the sales agent, with headquarters at the Music Hall Market.

Manager W. J. Thurston of the Park Street Market has fortified himself in sight of the fishing grounds, and for the next two weeks may be found

Wholesale Flower Markets

PHILADELPHIA, July 21.	Per 100
Roses, Beauty, extra	20 00@25 00
" " first	10 00@12 00
" Tea	3 00@ 6 00
" " extra	8 00@12 00
Carnations	2 00@ 3 00
Asters	1 00@ 2 00
Cattleyas	50 00@60 00
Gardenias	15@ 25
Gladiolus	6 00@10 00
Lilium Harrisii	10 00@12 50
Lily of the Valley	3 00@ 4 00
Sweet Peas	50@ 75
Adiantum	75@ 1 00
Asparagus, bunch	50 00
Smilax	15 00@20 00

PITTSBURG, July 21.	Per 100
Roses, Beauty, specials	10 00@15 00
" " extras	8 00
" " No. 1	4 00@ 6 00
" Bride, Bridesmaid	1 00@ 4 00
" Chatenay	1 00@ 4 00
" Kaiserin	2 00@ 8 00
" Killarney	1 00@ 4 00
" Richmond	1 00@ 4 00
Carnations	2 00@ 3 00
Asters	1 50@ 4 00
Gladiolus	3 00@ 6 00
Lilium Longiflorum	8 00@10 00
Lily of the Valley	3 00@ 4 00
Sweet Peas	25@ 50
Adiantum	1 00
Asparagus Sprengeri	30 00
" strings	50 00
" sprays	1 00@ 2 00
Smilax	10 00@15 00

BOSTON, July 21.	Per 100
Roses, Beauty, best	20 00@25 00
" " medium	10 00@20 00
" " culls	4 00@ 6 00
" Bride, Bridesmaid	2 00@ 4 00
" Extra	6 00@ 8 00
Carnations	1 00@ 2 00
" fancy	2 00@ 4 00
Callas	8 00@16 00
Cattleyas	45 00@50 00
Gardenias	3 00@ 4 00
Lilium Longiflorum	12 00
Lily of the Valley	2 00@ 3 00
Sweet Peas	75@ 1 00
Adiantum	75@ 1 00
Asparagus	35 00@50 00
Smilax	8 00@12 00

Pittsburgh Cut Flower Co

(Limited)

The Wholesale Florists of Pittsburgh,

222 Oliver Ave., PITTSBURGH, PA.

Headquarters for Choice Flowers.

—CHOICE—

Carnations, Roses, Beauties,

All Seasonable Flowers.

Pittsburg Florists' Exchange

15 Diamond Sq., PITTSBURG, PA.

camped along the shores of Lake Maranacook, Reedfield, Me.

H. F. Calder, the well-known violet cultivator, is showing some form as a sweet pea producer. Just now he is sending in a varied collection of top-notch blooms which are unsurpassed for beauty and quality.

Fred Becher is sending to market from his Cambridge conservatories a timely crop of splendid Easter lilies, which have been out of the market for the past few weeks, and are a welcome addition.

B.

Massachusetts Horticultural Society.

SWEET PEA SHOW, JULY 17 AND 18.

The following were the awards for plants and flowers: Gratuities, Morton F. Plant, sweet peas; Mrs. F. S. DeLue, sweet peas; Wm. Whitman, sweet peas; Francis Skinner, sweet peas; W. A. Riggs, sweet peas; W. J. Clemson; sweet peas; T. D. Hatfield, new sweet peas; Langwater Gardens, sweet peas; Giraud Foster, sweet peas; Bellevue Nurseries, herbaceous plants; Oldtown Nurseries, herbaceous plants; F. J. Rea, herbaceous plants; W. A. Riggs, herbaceous plants; Mrs. A. W. Blake, hollyhocks; Mrs. J. L. Gardner, hollyhocks and other flowers; Wm. Whitman, zinnias; Mrs. E. M. Gill, display.

Bronze Medal:—R. & J. Farquhar & Co., display of Japanese iris.

Honorable Mention:—W. A. Riggs, seedling delphiniums; Giraud Foster, sweet peas, Countess of Northbrook and Mrs. Geo. Higginson, Jr.

Vote of Thanks:—Walter Hunnewell, Browallia speciosa major, in pots; R. & J. Farquhar & Co., callas and amaryllis.

LENOX, MASS.—Miss Adele Kneeland, having received so many requests to visit her garden, has issued tickets for the purpose, the money received for these being given to charity.

DESIGNS OR CUT FLOWERS

Will be delivered for the trade in other cities by the firms below, the Leading Retailers in the cities indicated, on Wire, Phone or Mail Orders.

Colorado Springs, Colo.
FRANK F. CRUMP,
Wholesale and Retail Florist.

Anderson, S. C.
THE ANDERSON FLORAL CO.
533 MARSHALL AVE.

Omaha.

After a most disagreeable June and first part of July, we are having now real summer. Previous to this we had rain and storms almost every day, and the consequence was very little outdoor work could be done and the weeds had their own way. Outdoor flowers suffered both from rain and weeds, especially sweet peas. The growers are rushing planting now and the roses are almost all planted.

On June 23 Miss Casey May Arnold was married to a gentleman from Chicago; it was a church wedding, one of the events of the season. Miss Arnold will reside in Chicago and take with her the well wishes of everyone here. Miss Arnold was perhaps the hardest worker in a florist store for the last 15 years and leaves a well-established business here.

Herman Bros. Co. is already cutting some young stock from May planting and find a ready market for it. Ten days ago we almost had another hailstorm; it struck Florence, the north end of the city, and did lots of damage to the small fruit growers' places.

Vacations are now on. Mrs. L. Henderson is spending her vacation at Wausa with her folks. Mrs. Hess and children are in the mountains of Wyoming. J. F. Wiler and family went for an auto ride to the lakes of Minnesota.

On July 18 Miss Clara Hildebrand was married to a gentleman from South Dakota. Miss Hildebrand was for many years with Hess & Swoboda.

Miss Tinelson and Miss Dam, both with Hess & Swoboda, are going to Colorado. F. Hofmann spent his vacation in South Dakota.

On July 29 the Florists' Club will hold its annual picnic at Lake Manawa. A good time is promised.

GRIPPE.

Argos, Ind.

The Northern Indiana Florists' Association will hold its annual meeting at Winona Lake Tuesday, July 27, for the purpose of electing officers and attending to other business that may come before the association. Every member and all other florists of northern Indiana who wish to co-operate with the association are requested to be present. Those arriving in the forenoon will get off at Warsaw and visit the greenhouses north of the city, take lunch in Warsaw, then go to the park, where the meeting will be held, after which we will visit the park greenhouses and other places of interest.

W. E. H.

LISBON, O.—J. W. Scott is building a greenhouse 18x75 feet. The John C. Moninger Co., of Chicago, is furnishing the material. A large brick smokestack is also in course of erection.

NEVADA CITY, CALIF.—A new greenhouse is being built at the State Agricultural School at Davis. When complete it will be under the charge of Thos. Wilson, formerly a gardener at Grass Valley.

Washington, D. C.
14th & H Sts.

Baltimore, Md.
1601 Eutaw Place.

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Brooklyn, New York.
"WILSON"
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Canada's best known and most reliable florist.
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New York, Boston, Philadelphia
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Flowers or Design Work.
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CUT FLOWERS
For Tourists and General Trade.
Wire or mail. Highest Grade Stock Only.
URIAH J. **VIRGIN,** 838 CANAL ST.

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Bertermann Bros. Co.
FLORISTS
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Louisville, Ky.
Established 1880.
Orders for delivery in this city and nearby points in the South solicited by
M. D. REIMERS
Successor to Chas. W. Reimers,
.....329 Fourth Avenue.

Louisville, Ky.
JACOB SCHULZ,
550 So. Fourth Avenue.

DESIGNS OR CUT FLOWERS

Will be delivered for the trade in other cities by the firms below, the Leading Retailers in the cities indicated on Wire, Phone or Mail Orders.

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Established in 1857.

Wittbold FLORIST

1657-1659 Buckingham Place,
L. D. Phone 558 Lake View.
Send us your retail orders.
WE HAVE THE BEST FACILITIES IN THE CITY

Chicago.

HAUSWIRTH FLORIST

Auditorium Annex.
Mail, Telegraph or Telephone Orders Filled Promptly in Best Style.

Cincinnati, O.

JULIUS BAER,

138-140 E. Fourth St.
Long Distance 'Phone.

Cleveland, O.

The Cleveland Cut Flower Co.

Will fill your orders for designs and cut flowers in
NORTHERN OHIO.

Dayton, O.

Matthews,

—FLORIST—
16 W. 3rd Street.
Flowers in any arrangement for all occasions, for Dayton and vicinity. Long dis. Phones

Kansas City, Mo.

Geo. M. Kellogg Flower and Plant Co.,

906 GRAND AVE.
KANSAS CITY and PLEASANT HILL, MO.
Will fill all orders for **Cut Flowers, Funeral Designs, Wedding** and **Birthday Gifts** that may be entrusted to them.

Terre Haute, Ind.

John G. Heinl & Son,

129 South Seventh St.
Telephone 247.
We are in position to fill promptly all mail, telephone, telegraph and cable orders with best quality stock in season.

Galveston, Tex.

Mrs. M. A. Hansen

— FLORIST —
Special Attention to Telegraph or Telephone Orders. **Phone 1912.**

Atlanta, Ga.

Atlanta Floral Co.

41 Peachtree Street.

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WILLIAM L. ROCK, Flower Co.,

Will carefully execute orders for Kansas City and any town in
Missouri, Kansas or Oklahoma.

Hoffman FLORIST
59-61 Massachusetts Ave. or Commonwealth Ave.
BOSTON.

Rochester, N. Y.

J.B. KELLER SONS,

FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dis. Bell Phone 2189

FROM NEW YORK EXCEPT AS NOTED.

July 27.

Kaiser Wilhelm II., N. Ger. Lloyd, 10 a. m., Hoboken pier.
FROM BOSTON.—Ivernia, Cunard, 5 p. m.

July 28.

Laura, Austro-Am., 1 p. m.
Majestic, White Star, 9:30 a. m., Pier 48, W. 11th St.
FROM BALTIMORE.—Kheim, N. Ger. Lloyd, 2 p. m.
Lusitania, Cunard, 10 a. m., Pier 54, North River.

July 29.

Grosser Kurfuerst, N. Ger. Lloyd, 10 a. m., Hoboken pier.
La Provence, French Line, 10 a. m., Pier 42, North River.

July 30.

FROM MONTREAL. — Corsican, Allan Line, 3 a. m.
FROM MONTREAL.—Empress of Ireland, Can.-Pacific, 5 a. m.

July 31.

Koenig Albert, N. Ger. Lloyd, 11 a. m., Hoboken pier.
Estonia, Russian-Am.
California, Anchor Line, 9 a. m., Pier 54, North River.
Caronia, Cunard, 10 a. m., Pier 54, North River.
Zeeland, Red Star, 11 a. m., Pier 14, North River.
Celtic, White Star, 9:30 a. m., Pier 48, W. 11th St.
Cleveland, Hamburg-Am., 9 a. m., Hoboken pier.
FROM PHILADELPHIA. — Haverford, American Line, 10 a. m.
FROM BOSTON.—Corinthian, Allan Line, daylight.
FROM MONTREAL.—Sicilian, Allan Line.
FROM MONTREAL. — Dominion, White Star-Dom., daylight.

Alexander McConnell,

571 Fifth Ave., Windsor Arcade,
NEW YORK CITY.

TELEGRAPH Orders forwarded to any part of the United States, Canada and all principal cities in Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls: 487 and 488 38th St.
Cable address: ALEXCONNELL.
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Cor. Miami and Gratiot Aves.

Artistic Designs.
High Grade Cut Blooms.

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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HOLM & OLSON,

ST. PAUL.

THE LEADING FLORISTS OF THE NORTHWEST
Orders will be well cared for anywhere in MINNESOTA AND THE DAKOTAS.

Los Angeles, Calif.

J. W. Wolfskill,

FLORIST.
Telegraph Orders A Specialty. **218 W. 4th St.**

St. Paul, Minn.

L. L. MAY & CO.

Order your flowers for delivery in this section from the
Leading Florists of the Northwest

San Francisco, Calif.

J. B. BOLAND

Successor to Sievers and Boland.
FLORIST
60 KEARNEY STREET.

Milwaukee, Wis.

C. C. Pollworth Co.

Will take proper care of your orders in **Wisconsin.**

The Seed Trade.

American Seed Trade Association.

J. C. Robinson, Waterloo, Neb., Pres.; M. H. Duryea, New York, First Vice-Pres.; F. W. Bolgiano, Washington, D. C., Second Vice-Pres.; C. E. Kendel, Cleveland, O., Sec'y and Treas.; Leonard H. Vaughan, Chicago, Asst. Sec'y. Twenty-eighth annual convention, June, 1910.

PUGET SOUND cabbage seed crop promises well.

SOME damage has been done Nebraska seed crops by hail.

SALT LAKE CITY vicinity will produce garden peas successfully.

RED TOP growers report prospects for a very fine quality of seed this year.

NEBRASKA CROP REPORT. — Watermelons looking good, corn likewise; cantaloupes do not promise well.

A CHARTER was issued at Philadelphia, July 10, to the Philadelphia Seed Co. The capital stock is $5,000.

SAN JOSE, CALIF.—It is understood that the Braslan-Pieters differences have been adjusted by the sale of the former's interest to the latter July 17.

SECRETARY KENDEL, of the American Seed Trade Association, reminds members of the availability of its new legal bureau for all data concerning seed laws of various states.

GARDEN SEED retains its vitality much better on the Pacific coast than in the eastern states. Some Globe onion seed as well as some bush lima beans are stored there this summer.

THE crop of French Roman hyacinths proved lighter at harvest time than expected and the French growers secured a few francs advance on those orders which were not closed until after digging time.

MICHIGAN bean growers report severe drought along the eastern and northern border of that state. This, following late plantings, will cut down the yield. An early rain would, it is said, help some of the late crops.

TOLEDO, O.—E. W. V. Kuehme and E. N. Crumbach have taken W. R. Hadnett and F. R. Moorman into partnership. Articles of incorporation have been taken out and the firm is known as the Crumbach-Kuehme Co.

WAKEMAN, O.—C. S. Clark, seed corn grower, advises us that on July 17 a heavy hailstorm in that locality did considerable injury to the growing corn crops. The exact extent of the damage he was unable to estimate at that writing.

ADVICES from Denmark are to the effect that all kinds of root seeds will be scarce this year as the roots were much damaged during the winter.

FRENCH BULBS on the S. S. Venetia, which sailed from Marseilles July 16, are expected to arrive at New York about August 1, some of the consignments being quite considerable.

ON August 10 at noon a government report will be issued showing conditions, among others, of the following crops: Beans, sugar-cane, sorghum, peanuts, clover, alfalfa, timothy, millet and bluegrass seed.

J. C. ROBINSON and C. H. Coy were Chicago visitors Friday on their way home from the seed trade convention and a visit in the east, taking in the suburbs of Boston. They narrowly escaped a serious automobile accident at Marblehead.

F. R. PIERSON, chairman of the tariff committee of the S. A. F., reports receiving a letter July 10 from Senator McUmber with copy of printed bill showing the final acceptance by the senate of the revised schedule exactly as submitted by him in Washington.

BELLINGHAM BAY, WASH., July 10.—The United States Department of Agriculture bulb farm is in charge of Henry Jueneman, who with one assistant is working this year about 1½ acres in bulbs. He claims Narcissus Von Sion can be successfully produced here of fine color and free from splits. Hyacinths and tulips are now ripe.

MONTPELIER, O.—W. C. Heller & Co., manufacturers of mice-proof seed cases, bins and seed store fixtures, have opened a branch at 220 Wyandotte street, Kansas City, Mo., where they carry a complete line of their goods ready for immediate shipment, and invite all seedsmen to make their headquarters at their office while in Kansas City. They have also just issued a complete catalogue of their goods, which will be sent on receipt of a postal to anyone interested.

CHICAGO.—The trade here was greatly shocked to learn of the death by drowning on Sunday last of C. W. Smith, a traveling salesman for the S. F. Leonard Seed Co., and a brother of A. H. Smith of the same firm. The sad accident occurred on the beach not far from his home, 5116 East End avenue. Deceased was 33 years of age. Onion sets will not suffer from present fairly dry weather, so far as quality of the crop is concerned.—A. T. Ferrell, of Saginaw, Mich., who has been at a hospital here for a minor operation, left for home July 15.—Leonard H. Vaughan has returned from the coast.

American Seed Trade Association.

REPORT OF THE OBITUARY COMMITTEE.

Again we have to record the death of beloved friends, members of this association: Through the death of Charles Linnæus Allen, of Floral Park, N. Y., we lost the oldest living member and one of the charter members of the American Seed Trade Association. Mr. Allen always took an active interest in the welfare of this organization. Our records are replete with papers written by him that show his great knowledge of floriculture and his love of all that is beautiful in nature and best in man.

Warren W. Rawson, of Arlington, Mass., was a man of indomitable energy; he was the largest market gardener in New England and a pioneer in advanced methods of market gardening. His writings are considered an authority on the subject.

Stevens W. Flower, of Toledo, O., was a liberal Christian gentleman, of whom it is commonly said that when he passed to his reward "Toledo lost one of its most honored and charitable citizens."

Our necrology for the past year would be incomplete did it not include the honored name of E. V. Hallock, of Queens, N. Y., a noted florist, botanist and horticulturist, and a former member of this association. His genial personality and extensive knowledge of the subjects in which we are all deeply interested will be greatly missed by the members of this association.

We mourn the loss of these friends and associates; we are thankful they have lived and we honor and would emulate their virtues. We extend to their families our sympathy in their bereavement.

CHAS. H. BRECK,
MARSHALL H. DURYEA,
W. T. PHILIPPS,
Committee.

Danish Root Seed.

Formerly the root seed used in Denmark was imported from Scotland and Germany, but Danish agriculture, its advanced position being well known, could not in the process of time feel satisfied with this seed. The government is supporting home grown produce by directing a competition amongst the most efficient growers and those whose stocks prove to have attained the highest refinement and are yielding the most valuable clear profit are awarded a first class certificate. Every second year a competition at the government's experiment-station is thrown open, and to retain this certificate the grower must work forward on the refinement of his stock. By comparative trials of cultivation of this seed and of German, Scottish and English seeds, the Danish seed of first class will come forward in a striking manner, not only with regard to its beautiful typical form and smoothness but also on account of its high percent of dry matter (nutritive substance in kilo or hectar) and by being free from stock-runners. The government's experiments have proved, that a first class stock of Danish seed, for instance Barres Sludstrup stock, gives an extra profit of about 50 kroner per Danish acre, so it will certainly pay to use first class Danish stocks.

Imports.

During the week ending July 10 imports were received at New York as follows:

Maltus & Ware, 5 cases plants.
H. Nungesser & Co., 450 bbls. seed.
P. Henderson & Co., 5 bags seed.
To others, 25 cases plants, 953 bags seed.

Braslan Seed Growers' Co.
Lettuce Onion, Sweet Peas.
Growers For the Wholesale Trade Only.
SAN JOSE, CALIF.

Peas AND Beans
Alfred J. Brown Seed Co.,
Growers for the Wholesale Trade,
GRAND RAPIDS MICH.

C. C. MORSE & CO. 48-56 Jackson St., San Francisco, Calif.
The Largest Seed Growers on the Pacific Coast.
ONION, LETTUCE, SWEET PEAS.
Also Carrot, Celery, Leek, Mustard, Parsley, Parsnip, Radish, Salsify.

CYCLAMEN SEED CROP 1909.

Just Look at this Plant! This is a sample of our seed-bearing plants, **and only one year old.** You cannot equal the strain elsewhere. Our specialty for 36 years.

Have you tried **"Our Own"** Giant Salmon King, the finest salmon grown.

Personal attention given to the hand fertilization of all seed blooms.

We are anxious to serve you well.

Seed per oz. on application. List free.

Primula Sinensis

In seven distinct colors as selected for market.

Terms net cash with order.

ST. GEORGES NURSERY CO.,

Floriculturalist Trade Seed Growers

HARLINGTON, Middlesex, ENG.

P. S. Regents Park Gold Medal and Certificates, etc. from Royal Horticultural Society.

GIANT **PANSY** SEED

THE **KENILWORTH** STRAIN

is unsurpassed: the immense flowers 3½ to 4-in. are of perfect form and substance: every tint and shade is produced in striking combination and endless variations of beautiful colors and markings: it is the result of years of selection, it embraces the largest and best of English French, German and American novelties. 1909 seed greatly improved by rich shades ofbrown, bronze red and mahogany New seed 1000, 25c; 2000, 40c; 6000, $1.00; ¼-oz. $1.40; ½-oz. $2.50; oz. $5.00

Rainbow is a blend of over 50 of the latest introductions of giant pansies of the most beautiful, gorgeous colors, blotched, striped veined margined, etc. With every $1.00 worth of Kenilworth strain I will send 1000 of Rainbow free, and with other amounts in like proportion.

Chas. Frost Kenilworth, N. J.

Seed **PANSY** Seed

Brown's Extra Select Superb Giant Prize Pansies.

awarded medals wherever exhibited. Flowers are of enormous size: in beauty and color they are incomparable. Giant yellow with dark eye and pure white, in separate colors. New 1909 seed of my own growing.

3,000 seeds	$1 00	1 oz.	$ 5 00
¼ oz.	1 50	¼ lb.	14 00
½ oz.	2 50	½ lb.	25 00
Cash with order.		1 lb	50 00

PETER BROWN, Lancaster, Pa.

JOHN BODGER & SONS CO.

Gardena, Calif.

Wholesale Growers of **Sweet Peas, Tomatoes, Lima Beans, Lettuce, Asters, Cosmos** and other Flower Seeds.

—FOR—

SEEDS

OF ALL KINDS APPLY TO

W. W. JOHNSON & SON, Limited,

Boston, England.

O. K. Quality

BERMUDA **ONION SEEDS**

VARELA'S

Contract **NOW** for 1910 delivery. No seedsman is well equipped without **my seeds.**

FEDERICO C. VARELA, Grower and Exporter **Teneriffe, Canary Islands.**

S. M. Isbell & Co.

Jackson, Mich.

Contract Seed Growers,

Bean, Cucumber, Tomato, Pea, Muskmelon, Squash, Watermelon, Radish, Sweet Corn,

Correspondence solicited.

Write for Prices on Surplus Stocks for Immediate Shipment.

Pansy Seed

The Best Strains for Florists' Use

Also Other Seasonable Seeds.

H. E. FISKE SEED CO.,

13 Faneuil Hall Sq. BOSTON, MASS.

Waldo Rohnert

GILROY, CAL.

Wholesale Seed Grower

Specialties: Lettuce, Onion, Sweet Peas, Aster Cosmos, Mignonette, Verbena, in variety. Correspondence solicited.

MICE PROOF SEED CASES

HELLER & CO.,

Montpelier, Ohio,

or 220 Wyandotte St., Kansas City.

H. WREDE,

LUNEBURG, GERMANY

PANSY SEED

175 First Prizes the highest awards Chicago, Paris, London, Dusseldorf

1000 seeds, finest mixed.. 25c

1 oz. ..$2.25

Price list on application. Cash with order.

The Everett B. Clark Seed Co.

Growers For The Trade.

Beans, Peas, Sweet Corn, Onion, Turnip, Radish, Beet, Etc.

Branches: Michigan and Wisconsin.

MILFORD, CONN.

ROUTZAHN SEED CO.

Arroyo Grande, Cal.

Sweet Pea and Nasturtium Specialists

Wholesale Growers of full list of

FLOWER and GARDEN SEEDS

Telegraph Code

Am. Seed Trade Association

—$2.00—

In either stiff or flexible cover. Address orders AMERICAN FLORIST CO., CHICAGO.

Market Gardeners

Greenhouse Vegetable Growers and Market Gardeners' Association.

E. A. Dunbar, Ashtabula, O., President; S. J. Perry, Grand Rapids, Mich., Vice-President; S. B. Chester, Cleveland, O., Treasurer; S. W. Severance, 508 Illinois Life Building, Louisville, Ky., Secretary. Next meeting in Ashtabula, O., October 12, 1909.

PUSH on with the preparation of the manure and covering for mushroom beds. Keep the hose going on it while turning if it appears to be too dry and avoid over-heating.

ONE New York commission merchant is said to have supplied one of his shippers with wrappers for his melons with the result that out of a shipment of 10 cars of cantaloupes this season the shipper's returns are more than $1,500 more than they would have been had he not used the wrappers.—Market Growers' Journal.

MANURING FOR POTATOES.—The advantage of using natural and artificial manures in combination in potato culture receives further confirmation from the experiments that have been conducted at the University College of North Wales, Bangor. According to the official report, good crops were produced by the use of farmyard manure alone, and by artificial fertilizers alone, but the best crops were produced on land that received a moderate dressing of the former, supplemented by a suitable mixture of the latter.

New Tomato Disease.

The British Board of Agriculture has published a leaflet with reference to a new tomato disease which has recently appeared and which, it is believed, has been introduced from abroad. The fungus which causes the disease is closely related to the leaf-spot disease on strawberries, apples, pears, and chrysanthemums, but is quite distinct from any of these diseases. The plants attacked show small, blackish-green spots on the leaves. These are rapidly killed, roll up, and hang loosely from the stem. The fungus also attacks the stem, the calyx, and finally the fruit itself. Plants once attacked can only be saved by spraying immediately the first signs of disease are noticed.

The Late Blight of Potatoes.

In the course of an admirable and beautifully illustrated account of the prevalent plant diseases in New Zealand, Mr. Cockayne, assistant in the division of biology and horticulture, makes some interesting observations on the origin and mode of distribution of late blight of potatoes (due to Phytophthora infestans). According to Mr. Cockayne (Annual report, New Zealand Department of Agriculture, 1908), no precise record exists as to the date of introduction of the phytophthora disease into New Zealand, though it would appear to be of comparatively recent importation. At the time of the severest epidemic in 1904 Professor Thomas stated that the disease had appeared, though in a less virulent form, 20 years earlier.

Mr. Cockayne adopts the view that the fungus hibernates in the resting tuber, and when conditions are favorable spreads therefrom to the leaves, where it gives rise to spore-bearing branches, which bear the well-known spores. Whether the tubers are infected through the stem or by means of spores germinating in the earth the writer is not prepared to say, though he inclines to the view that both modes of infection occur. Mr. Cockayne draws attention to the fact that tubers infected with phytophthora may become rotten rapidly or may show no sign of rot. In the absence of readily recognizable symptoms of disease (as in the latter case) such infected tubers are doubtless used for "seed" and provide so many centers for spore manufacture, and hence, for the dissemination of the disease. If, again, climatic conditions remain unfavorable, no external sign of disease is given, though the tubers of the plant formed from the infected "seed" in turn contain the hibernating mycelium. That some such course of events takes place is rendered probable by the well-known fact of the rapidity with which the disease declares itself whenever a spell of moist, warm weather coincides with the later period of the growth of the potato. More thorough-going investigation of the obscure phases in the life history of this fungus pest is much to be desired.

Experiments in spraying with Bordeaux mixture might be given a rest for a time—since the efficacy of Bordeaux mixture as a check to the dis-

TO THE TRADE

HENRY METTE, Quedlinburg, Germany.

GROWER and EXPORTER on the VERY LARGEST SCALE of all CHOICE VEGETABLE, FLOWER and FARM SEEDS. (Established 1787.)

Specialties: **Beans,** Beets, Cabbages, **Carrots,** Kohl Rabi, Leek, Lettuces, **Onions,** **Peas,** **Radishes,** Spinach, Turnips, Swedes, **Asters,** Balsams, Begonias, Carnations, Cinerarias, Gloxinias, Larkspur, Nasturtiums **Pansies,** Petunias, Phloxes, Primulas, Scabious, **Stocks,** Verbenas Zinnias, etc. Catalogue free on application.

HENRY METTE'S TRIUMPH OF THE GIANT PANSIES, (mixed), the most perfect and most beautiful in the world, $5.00 per oz., $1.50 per ¼-oz., 75c per 1-16 oz. postage paid. Cash with order.

All seeds offered are grown under my personal supervision on my own grounds of more than 3,000 acres, and are warranted true to name of strongest growth, finest stocks and best quality.

I ALSO GROW LARGELY SEEDS ON CONTRACT.

List of my novelties in flower seeds for 1908 sent on application.

New Spawn Both Grades Now in Store.

Vaughan's English Spawn	25 lbs.	$ 2.00
	100 lbs.	6 50
Garden City Pure Culture Spawn	25 bricks	3.75
	100 bricks	12 00

VAUGHAN'S SEED STORE,
CHICAGO: 84-86 Randolph St.
NEW YORK: 25 Barclay St.

THIS SEASON'S FRESH

MUSHROOM SPAWN

which is now being supplied by

JOHNSON'S, LIMITED,

(The actual makers.)

IS IN SPLENDID CONDITION.

All orders executed from new stock only, last year's make being sold out. The leading growers throughout the world use our make.

Correspondence invited for **OVER-SEA ORDERS**

Special quotations for large quantities. Prices and particulars on application to

JOHNSON'S, Limited,

44 Bedford Row, LONDON, ENGLAND.

Dearborn Engraving Co.

Designers, Printers & Engravers

1322 Wabash Ave., Chicago.

...Engravers for this Paper.

VEGETABLE PLANTS

	Per 1000
Cabbage, field-grown, all leading varieties	$1 00
10,000 and over	85
Celery, White Plume, Golden Self Blanching and Giant Pascal	1 00
Eggplant, N. Y. Improved and Black Beauty	3 00
Lettuce, Big Boston, Boston Market, Tennis Ball and Grand Rapids	1 00
Peppers, Ruby King, Bull Nose, Sweet Mountain and Neapolitan	2 00
Chinese Giant and Cayenne ....50c per 100	
Parsley,	1 25

—Cash with order.—

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

MUSHROOMS

HOW TO GROW THEM

BY WM. FALCONER.

The Best American Book on the Subject.

170 Pages. **29 Illustrations.**

—**Price $1.00.**—

AMERICAN FLORIST CO.

324 Dearborn St., CHICAGO.

ASTER PLANTS

Semple's, Vick's and **Queen of the Market,** fine plants, grown from the best seed, three colors $2.50 per 1000; $10.00 per 5000.

GERANIUMS, 4-in., in bloom, $4 00 per 100; 2½-in., $1.50 per 100; best varieties.

CABBAGE PLANTS, all kinds, from the field, $1 00 per 1000 5,000 for $4.00.

CAULIFLOWER, and **PEPPERS,** $2.50 per $1000.

TOMATOES, all kinds, $1 per 1000

J. C. SCHMIDT, Bristol, Pa

Watch for our Trade Mark stamped on every brick of Lambert's

Pure Culture Mushroom Spawn

Substitution of cheaper grades is thus easily exposed. Fresh sample brick with illustrated book mailed postpaid by manufacturers upon receipt of 40 cents in postage. Address

P.C.

Trade Mark. **American Spawn Co., St. Paul, Minn.**

Lilium Harrisii, Now Ready for Delivery :: ::

Our first consignments have just reached us, and we are now filling early orders. **Easter comes very early next year, March 27th,** and a good many growers will have difficulty in getting Japan Longiflorum in flower in time, and there will be an extra demand for Harrisii in consequence.

In view of the fact that **crop is short,** we advise those who have not already placed order to lose no time doing so. Last year we were not able to meet the demand for our selected Harrisii on late orders, so we urge customers to order without delay. At present we have a good supply still to offer, and will be able to take care of early orders, but there should be no delay in ordering, as there is sure to be a scarcity of good stock, especially in the large sizes.

We offer a selected stock of the original true Harrisii for early forcing. These bulbs have been grown from the original pure Harrisii, and will be found splendid stock for early forcing, for which purpose Harrisii is so valuable. We have had the stock inspected, and are assured that it is almost absolutely pure and almost entirely free from disease. It is not stock picked up indiscriminately from different sources, but is grown from one stock, and will be found very superior to the ordinary Harrisii usually offered both in regard to purity and freedom from disease and not the late type now so often furnished.

6- 7-in. bulbs, 350 to the case.....$ 6.00 per 100; $ 55.00 per 1000
7- 9-in. bulbs, 200 to the case..... 9.00 per 100; 85.00 per 1000
9-11-in. bulbs, 100 to the case..... 20.00 per 100; 180.00 per 1000
Full case lots at thousand rate.

Large Specimen Hydrangeas

In tubs and half-barrels. For July and August flowering.

We make a specialty of these plants, and have a grand lot in the finest possible condition. Our plants have never been so well budded as they are this season; flowers are just beginning to show color. Extra fine plants in tubs, $3.00 each; very large specimens in half barrels, $5.00 and $7.50 each.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

ease has been demonstrated a hundred times—and in place of such unnecessary repetitions some of our horticultural institutions might turn their attention to the elucidation of the modes of perpetuation of this pestilent late blight.—Gardeners' Chronicle.

Small Holdings in England.

At this time, when so much effort is exerted to induce men to go back to the land, and thus arrest the flow of population to the great cities, Consul John L. Griffiths, of Liverpool, says that it may not be uninteresting to glance at the land situation in Great Britain: In 30 years there has been a shrinkage of 2,325 in the number of small holdings—that is, farms of 50 acres and less. In the number of larger sized farms there has been little change, which is explained by the fact that in this class of holdings there are more owners and fewer tenants than in the case of the smaller areas, and a higher degree of stability has been secured. The orchard acreage has slightly increased and a larger acreage has gradually been given to the cultivation of strawberries, raspberries, currants and other small fruits.

A small-holding law has been enacted for the purpose of remedying the existing conditions. It is believed that the only solution of the land question is in providing a few acres of land which a man may cultivate, either as owner or tenant. It is desired to have as many small properties as can be secured, and it is thought if this is done the knowledge that any increase in value will directly benefit the occupier will be an incentive to the proper and scientific cultivation of the land. The garden cities which have been established in various parts of England are another manifestation of the growing movement in favor of small holdings. Lessons have been drawn from France, Germany and Belgium, where a large yield is secured from a very small acreage, and where a spirit of contentment prevails, which is at present lacking in rural England. Many urge that with a larger return for his labor and with the prospect of ultimate ownership of the land the English farmer would work with renewed energy and finer purpose. Upon the very large multiplication of small farms depends, in a great measure, the agricultural rejuvenation of England.

BOX BAY TREES

We have a fair stock of both these items, including a number of large sizes.

Write for special list and prices.

Vaughan's Seed Store,

Chicago. New York.

FERNS Boston, 2½-in. to 10-in.; Whitmani, Scottii, Elegantissima, Amerpohlii. **Plumosus** and **Sprengeri, Celestial Peppers,** 3-in. special for week, at $5.00 per 100, to July 30. **Smilax,** 2½-in., at $2.50 per 100. **Primroses,** Chinese, Obconica, $5.00 to $8.00 per 100. **Buttercup** and **Kewensis,** best of yellows, $5.00 to $8.00 per 100. **Rex Begonias,** 7½c, 10c, 25c. **Cyclamen,** 5c, 8c, 20c.

Ask for our circular. Cash or reference.

GEO. A. KUHL; Pekin, Ill.

Ontario Experiment Farms.

Consul A. G. Seyfert of Owen Sound, furnishes the following information concerning the Ontario Agricultural College and Experimental Farm at Guelph, and its usefulness in promoting agriculture in that Canadian province: "During 1908, 1,225 students received instruction in the various departments of the college. Besides Canadians, students attended from 18 foreign countries, the United States being represented by 22 students. The staff of instructors in the agricultural college proper consists of 35 teachers, and there are nine teachers in the MacDonald Institute, where girls are taught home economics, physiology and home nursing, domestic science, and domestic art.

One of the features of the practical work of the institution is the farmers' excursions to the college and farm during June. These are arranged systematically day after day, so that every farmer and his family in the province can spend a day at the farm and see the experimental process at first-hand. The railroads give cheap rates for these excursions, and many thousands annually avail themselves of the opportunity. The practical value to the farmer cannot be overestimated, for the information that he gains by sight and what he hears by the lectures in sight of the experimental plot during the day are of great benefit to him.

Begonia Gloire de Lorraine

Strong 2½-in. pot plants leaf cuttings, $15.00 per 100; $140.00 per 1000.

POINSETTIAS.
2½-in..... $5.00 per 100; $45.00 per 1000

CYCLAMEN.
4-in.....$15.00 per 100 5-in.....$25.00 per 100

PANSY SEED.
S. & I. Giant, mixed ..... ¼ oz., $1.25; oz., $5.00

Katalog for the asking.

Let us hear from you.

SKIDELSKY & IRWIN CO.,
144 N. 7th St., Philadelphia, Pa.

EVER TRIED

Japan Grown Callas

If not, try them to convince yourself of their superior quality. Not affected by disease. Bulbs very solid; grown one season in loam to make them fit for the long voyage. Shipment expected end of July. Prices on application.

The Yokohama Nursery Co.

31 Barclay St., NEW YORK.

Lily of the Valley

MANN'S EXCELSIOR

Are the finest in existence and their flowers bring the best prices in the London market. For quotation please apply to

OTTO MANN. Leipzig Saxony Germany

Small Ferns

We will have a large quantity of Small Ferns for fall shipment.

Get your orders in early.

ERNEST OECHSLIN,
180 Madison St., RIVER FOREST, ILL.

The Nursery Trade

American Association of Nurserymen.

C. J. Brown, Rochester, N. Y., President; C. M. Hobbs Bridgeport, Ind., Vice-President; Geo. C. Seagar Rochester, N. Y. Sec'y. Thirty-fifth annual convention to be held at St. Louis or Denver June 1910.

CHIEF FORESTER PINCHOT will deal with the lumbermen's side of topics relating to the forestry service at the National Irrigation conference in Spokane, Wash., August 9-14.

DIPLOMA, a new currant raised by the late Jacob Moore and grown by Green's Nursery Co., Rochester, N. Y., is said to be a quite phenomenal variety in point of size and quality.

CHAS. SPRAGUE SARGENT of the Arnold Arboretum has reported upon the "Trees of Commonwealth Avenue, Boston" and his report has been reprinted in a neat green covered pamphlet.

ALL the nurseries of Oregon have been cleaned out of young trees as a result of the increased acreage planted to fruit this season. The favor into which walnut culture has grown of late has caused an immense area to be planted.

THE annual report of the park commissioner of St. Louis, Mo., is a book of 50 pages well illustrated and describing the work done in the various parks during the year ending April, 1908, and recommendations for future improvements.

F. L. MULFORD, secretary-treasurer of the American Association of Park Superintendents, is again calling attention to the many pleasurable features of the trip of the association to the Seattle exposition and the convention to be held at Seattle and Tacoma, August 9-13. The particulars were given in our issue of July 3, page 119.

American Ass'n of Railroad Gardeners.

The third annual meeting of the American Association of Railroad Gardeners will be held in Philadelphia, August 24, 10 a. m. A very interesting programme has been arranged for and some of the best examples of railroad gardening in America will be inspected.

All railroad employes having superintendence of lawns, care of flowers, shrubbery and trees and the general æsthetic appearance of railroad waylands are eligible to membership, and all persons interested in this feature of railroad work will be gladly welcomed. GEO. B. MOULDER, Sec'y.

Scale on Laurel.

ED. AMERICAN FLORIST:—

Please find enclosed in separate package some branches of laurel, with some kind of scale. Please give me the name of same and say how I can get rid of it. F. A.

The specimens have been determined as the common soft scale, Coccus Hesperidum. This is a cosmopolitan pest, living outdoors throughout the tropical regions and under glass in temperate regions, and infests a wide range of food plants, sometimes doing rather serious damage. The oily washes, such as kerosene emulsion, are the best remedies known for its control. H.

Trees and Shrubs at Rochester, N. Y.

Rain is the crying need here at present. On all light sandy soils, lawns are parched and dried up, and newly planted trees and shrubs are showing the serious effects of the drought.

The staghorn sumach (Rhus typhina) was in full flower July 1, and now, July 10, the crimson panicles of fruits are beginning to look conspicuous. The Japanese varnish tree (R. vernicifera), with thin yellowish white clusters, was in bloom about the same date as the last. The smooth sumach (R. glabra) is now in full flower. The smoke tree (R. cotinus) is just now a most conspicuous feature with its showy feathery plumes. The aromatic sumach (R. Canadensis), with its red fruit clusters, is also attractive.

The silky-leaved dogwood (Cornus amomum) was in flower June 30. C.

Syringa Japonica.

Purpusi, which blooms about two days ahead of C. Amomum, when growing side by side, has been lately separated from C. amomum, and differs from it only in its much narrower leaves which are pale beneath. C. asperifolia came in bloom about July 1. C. stricta commenced to flower about July 4, and on July 10 was in fine flower. The short panicled white clusters are quite attractive. This is usually somewhat tender here, but on account of the last mild winter it is flowering freely this year. C. brachypoda has just begun to unfold a few blossoms while C. stolonifera and C. Baileyi are beginning to show a number of whitish ripe fruits.

Philadelphus Columbianus was in full flower on July 3. The six to seven white flowered clusters, about one inch across, are quite handsome. P. Gordonianus was in full flower at about the same time. P. Californicus is now, July 10, in full flower and is the last of the mock oranges to blossom here. The many flowered white panicles are very showy.

Viburnum venosum was in full flower July 3, and has now entirely passed out of bloom. This was sold for a number of years in some American nurseries under the name of V. Nepalense. The name was again changed to V. molle. It was finally named V. venosum by Alfred Rehder, as V. molle is now known to be a species localized in the southern states and quite rare in cultivation. V. venosum variety Canbyi flowers about the same time as the last.

The Japanese lilac (Syringa Japonica) was in full flower about July 3; it has been remarkably showy and has now passed out of flower. Sambucus pubens, the red-berried elder, has been displaying its showy clusters of red berries since June 30. This is an excellent, showy, berried shrub for the decoration of ornamental grounds at this time of the year. A form with yellow fruit has lately been observed in the Genesee valley in different localities. As the fruit is well developed and clear yellow, it should prove a good decorative shrub. The common elder (S. Canadensis) has been in full flower since July 6 and is now quite showy. The large, roundish, white cymes, from 6 to 12 inches across, form a most conspicuous feature on the edges of copses and in plantations, wherever they occur.

The broad-leaved linden (Tilia platyphyllos) was in flower June 25. The common European linden (T. vulgaris) was in bloom July 7, and at that time a little past its best. The elm-leaved linden (T. ulmifolia) was coming in bloom July 7, and is now in good flower. T. Michauxi and T. Americana are now partly in flower. T. Mongolica has only a few flower buds opened.

The various forms of Deutzia scabra have been very showy since June 29, and have now about passed away. D. myriantha is still in splendid bloom, and the showy pure white clusters are very attractive. Wherever this proves to be hardy it should be a good acquisition to gardens.

Lyonia (Andromeda) ligustrina is now in good bloom, and has been since June 30. The globose, whitish flowers produced in numerous clusters along the terminals of the branchlets are quite noticeable. The cranberry (Vaccinium macrocarpon) is in full flower. The reflexed, narrow petaled, blush white flowers are delicately pretty. Some individual plants of the white heather (Calluna vulgaris variety alba) have just now commenced to unfold a few white blossoms. The clammy azalea (A. viscosa), with white flowers is now in full bloom and A. arborescens is still in fairly good flower.

Hydrangea Bretschneideri, which was in full flower on June 29, is still, July 10, quite noticeable in bloom. H. arborescens variety sterilis, in which the flower clusters are all neutral, and the corollas are well developed, is now in full flower, and it is very showy, and a most valuable decorative shrub for gardens. The type form, H. arborescens, is not yet in flower. The oak-leaved hydrangea (H. quercifolia) is almost in full flower, and the large panicled clusters of fertile flowers, with prominent neutral large petaled blooms scattered over the clusters, render it very ornamental. We cannot pronounce it hardy here, but it is in fine condition with us this season.

The Chinquapin chestnut (Castanea pumila) was in full flower July 1. The common sweet chestnut (C. Americana) was in full bloom July 8, and

10 per cent Special CASH DISCOUNT. On orders over $2.00 for Flower Seeds if the cash is enclosed. 1C per cent. The discount does not apply to Asparagus Seed. Cash discount on this is 2 per cent.

Vaughan's Flower Seeds

For Summer Sowing

If you have not received our complete list of **Pansies, Primroses,** and **Perennials,** kindly write for the same.

Calceolaria Hybrida.

Our mixture is composed of the choicest selection of the tigered· marbled spotted and variegated varieties and we know will give entire satisfaction. **Trade Packet** (1000 seeds). **50c; 3trade pkts. for $1.40.**

Gloxinia Hybrida.

Vaughan's Columbian Mixture is made up by ourselves from the choicest spotted tigered edged marbled and splashed sorts of the upright and horizontal type. **Trade pkt.** (1000 seeds) **50c; 3 pkts. for $1.40.**

Mignonette, New York Market.

This is an extra choice strain of Mignonette for greenhouse culture· Our seed is greenhouse grown, raised by a most careful grower. **Packet** (about 1000 seeds) **50c; 1/8-oz., $1.50.**

Vaughan's International Primula Mixture.

This mixture is composed of the most salable colors of single Chinese Primulas We have taken special pains to make this mixture as complete as possible and unreservedly recommend it **Packet of 250 seeds, 50c; 5 pkts.** (1.250 seeds), **$2.00; per1-16 oz., $2.50.**

Pansy—Vaughan's Cut Flower Mixture.

This mixture is put up by ourselves. and contains mostly light colored sorts. We have sold this mixture for several seasons to some of our Chicago cut flower growers who have realized big returns from the sale of the flowers. Pansies are as easily grown as violets. require less care and bring better returns. **Trade pkt., 50c; 1/8-oz.; $1.00; ¼-oz., $2,00; 1-oz., $8.00.**

Vaughan's "Giant Pansy Mixture.

This mixture includes the richest red. coppers and bronzes. together with the most delicate rose and pink shadings, all the distinct colors of Trimardeau, the splendid Cassier strain with its delicate veinings. **Trade pkt., 25c; ⅛-oz., 60c.; oz., $4.00; ¼-lb., $14.00.**

Vaughan's International Pansies.

Nothing Better. The World's Best.

We import from all the best European sources and personally inspected the fields of French and German specialists of their finest strains. We buy every year novelties of known merit to improve the mixture. This is the reason it is always complete always the latest and always the best mixture AS WE BELIEVE. We add to all the Pansy Mixtures which we now buy more that fifty per cent of the choicest named kinds obtainable, each in rightful proportion. We thus know what it will produce This is one of the SPECIALTIES which has establi hed and held the reputation of Vaughan's Flower Seeds and this is one which we maintain most carefully not alone as to quality but in vitality and germination. **Trade pkt., 50c.; ⅛-oz., $1.50; ½-oz., $5.00; oz., $10.00.**

VAUGHAN'S SEED STORE,

25 Barclay St., NEW YORK. 84 and 86 Rando'ph St., CHICAGO.

Jacs Smits, Ltd., NAARDEN (Holland.)

Azaleas (hardy), Berried Plants, Bleeding Hearts Blue Spruces, Boxwood, Clematis, Climbing Plants, Conifers, Evergreens, Funkias in sorts, Hydrangea P. G., Japan Maples, Peonies, Potgrown plants. (Lilacs a specialty), Rhododendrons, Roses, Spireas, Valleys,

Price List Free on Demand.

the European chestnut (C. sativa) was in full flower about the same date as the last. The persimmon (Diospyros Virginiana) with its short-stalked, greenish yellow flowers, was in bloom July 1. The staminate flowers, are usually borne three in a cluster, and the pistillate usually solitary. It is quite hardy here and fruits freely. Secqurinega ramiflora, a very ornamental euphorbiaceous shrub with oblong lanceolate, deep olive green leaves which form a handsome bush, is now in full bloom. The numerous yellow-green flowers cannot be said to be conspicuous. Ceanothus ovatus was in flower, and past its best July 1. C. Americanus, commonly known as New Jersey tea, was in full bloom July 4. This is a common low growing shrub, and the white flowers are quite pretty.

Sorbaria (Spiræa sorbifolia), with its showy white panicles was in full bloom July 1. S. Bumalda, S. Billardi and S. Anthony Waterer were in fairly good bloom July 1, and at the present date, July 10, are in perfect flower. S. Fontenaysi rosea was partly in flower July 3. S. alba and S. salicifolia are now in good bloom, and S. Menziesii, S. Lenneana and S. albiflora are now coming in flower. Potentilla fruticosa, with its yellow buttercup looking flowers, was in bloom July 3. It will produce scattering flowers for a number of weeks. P. micrandera, a lower growing form than P. fruticosa with smaller flowers, blooms at the same time. The common thyme (Thymus vulgaris) is now in full bloom and, growing on a slope with its myriads of whitish purple flowers, it is real pretty. The creeping thyme (T. serpyllum) with lilac blossoms is also in flower.

JOHN DUNBAR.

100,000 PEONIES For Fall Delivery

All of the Leading Varieties from the COTTAGE GARDENS' FAMOUS COLLECTION.

Our enormous stock enables us to send out tubers of the very highest quality, and in filling orders we use undivided roots only—assuring an abundance of flowers the first season. This year we offer 1, 2 and 3-year plants.

Wholesale List Now Ready. Send for a Copy.

COTTAGE GARDENS COMPANY, Inc.
Queens, Long Island, N. Y.

BAY TREES, BOXWOOD, PALMS, ARAUCARIAS,

AND OTHER DECORATIVE MATERIAL

Evergreens In all Choicest Varieties. **Clematis** And all other Vines and Climbers.

Trained Fruit Trees, Greenhouse Grapes, Herbaceous Plants, Trees and Shrubs.

We shall be pleased to give special prices on lists.

ASK FOR WHOLESALE CATALOGUE.

BOBBINK & ATKINS Nurserymen and Florists **Rutherford, N. J.**

Fifteen acres devoted exclusively to

PEONIES

Our 16th year. Prices right. Write for list today.

GILBERT H. WILD,
Wholesale Peony Grower. **Sarcoxie, Mo.**

LARGE TREES.

OAKS and MAPLES.
PINES and HEMLOCKS.
ANDORRA NURSERIES,
Wm. Warner Harper, Prop.
Chestnut Hill, PHILA., PA

ARBOR VITÆ

(Thuya Occidentalis.)

A splendid stock of 3 to 4 ft. and 4 to 5 ft. trees,
Write for descriptions and prices.
THE WM. H. MOON CO.,
Morrisville, Pa.

THE

Storrs & Harrison Co.

PAINESVILLE NURSERIES.
CATALOGUES AND PRICE LISTS FREE ON APPLICATION........

PAINESVILLE, OHIO.

HEACOCK'S KENTIAS

Our stock consists of healthy, HOME-GROWN
WELL ESTABLISHED Plants

Kentia Belmoreana

		Each	doz.
6-in. pot, 6 to 7 leaves,	22 to 24 in. high	$ 1 00	$12 00
6-in. " " "	24 to 26 in. "	1 25	15 00
6-in. " " "	26 to 28 in. "	1 50	18 00
9-in. tub, " "	42 to 48 in. "	5 00	
9-in. "	48 to 54 in. "	6 00	

Kentia Forsteriana

		Each	Per doz.
6-in. pot, 5 to 6 leaves,	28 to 30 in. high	$1 00	$12 00
6-in. " 6 leaves,	30 to 32 in. "	1 25	15 00
6-in. " 6 leaves,	34 to 36 in. "	1 50	18 00

Made-up Kentia Forsteriana

9-in. tub, 4 plants, 42 to 48 in. high.....$ 4 00 each

Joseph Heacock Co., Wyncote, Pa.

Nashville.

BUSINESS DULL.

Summer dullness is over all and trade is very dull, only the funeral business keeping up at all. The scorching days are upon us and all the growers and their army of assistants are kept busy, watering and caring for their stock. Plants of roses and carnations for next winter's flowering are in fine condition. The Joy Floral Co. is even now cutting some few American Beauty roses from the early stock which is coming on nicely. Geny Bros. have a fine assortment of carnations which promise a bountiful crop for next winter. The stores show the scarcity of flowers. With the exception of fine gladioli the display flowers are all gone, and rows of empty vases which were a short time ago full of beautiful blossoms fill the benches and shelves. Some little attempt at window decoration is made with ferns and foliage plants. For filling in funeral work the Joy Floral Co. is using fine double white althea and Geny Bros. have plenty of white asters. Both have fine cuttings of Lilium speciosum, rubrum and album. Of roses there are few and these not of good quality. Carnot and Kaiserin are blooming in small lots sufficient for the present demand. The florists are wearing shirt waist suits and trying to keep cool.

M. C. D.

LIMA, O.—This section of the country has been visited by a most disastrous hailstorm, which did immense damage to glass and growing crops. A. Frueh, the Swan Floral Co. and H. Mueller were among the heaviest losers, one-half of the latter's glass being smashed by the hailstones, which were as large as walnuts.—M.

Primroses

	Per 100
Chinese and **Forbesi,** ready July 26	$2.00
Ob. Grandiflora, Alba and Rosea...	2.00
" " Gigantea and Kermesina	3.00
Smilax	1.00

Asparagus

	Per 100
Plumosus, July 10	$2.00
Sprengeri, ready Aug. 1	2.00

Pansy Seed

Giant flowering, new crop, per oz., 4.00

Cash. **JOS. H. CUNNINGHAM,** Delaware, O.

GERANIUMS..

$1.00 per 100; $10.00 per 1000.
Summer prices, good until Oct. 15th.
Varieties: Nutt, Ricard, Poitevine.
Winter prices on request
Orders booked for any date.

ALBERT M. HERR, Lancaster, Pa.

SMILAX and SPRENGERI

From small pots Specially grown.
Samples sent on request.
$1.50 per 100; $15.00 per 1000.

Cleveland.

NOT MUCH STOCK.

Although business is not what it might be, still the demand is equal to the supply, as carnations are about done for and asters as yet are very scarce. Sweet peas are not quite so plentiful, although there are still some. Richmond roses were in good demand the latter part of this week. Harrisii and Japanese lilies are plentiful and in good demand. Water lilies and Lilium auratum are in abundance and are used extensively for funeral and decorative work. This week gladioli will be in; lily of the valley has been very scarce and the supply limited.

NOTES.

H. Eichoff is doing a fine business in his new store at 6826 Woodland avenue.

Visitors: —— Parker, of Woodworth & Parker, Geneva; Ben Eschner, Rice & Co., Philadelphia; Henry Heepe, of Heepe Bros., Akron, and wife, on their way east to Providence, R. I., to spend their vacation.

C. B.

Akron, O.

The worst storm of the season occurred here July 15. The wind, hail and rain broke much glass and damaged growing crops. Business is very quiet.

A few have signified their intention of going to the S. A. F. convention.

Henry Heepe and L. C. McFarland are off on their vacations.

F.

DIXON, ILL.—Roy Wolber is going into violet growing.

Kentias, Ferns, Asparagus,
and other Seasonable Stock.

Asparagus Plumosus.

To reduce stock of Asparagus will make a special price of $10 00 per 100 for 4-in. pots.

Also an exceptionally choice lot of

Asparagus Plumosus

in 2, 3 and 4 in pots that is sure to give entire satisfaction.

	Doz.	100
2-inch pots	$ .50	$ 3 00
3-inch pots	.75	6 00
4-inch pots	1.50	12.00

Kentia Forsteriana

					Per doz.
2-in. pots	6-7 in.	high	3-4	leaves	$ 1 50
3-in. "	10-15 in.	"	4-5	"	2 00
4-in. "	16-18 in.	"	5 6	"	4 50
					Each
5-in. pots.	24-28 in.	high	5-6	leaves	75
6-in. "	28-30 in.	"	5-6	"	1 00
7-in. "	30 in	"	5-6	"	1 25
7-in. "	32-34 in.	"	5 6	"	1 50
7-in. "	36-40 in.	"	6-7	"	2 50
7-in. "	42-44 in.	"	6-7	"	3 50
8-in. "	48-54 in.	"	6-7	"	5 00
9-in. "	60-62 in.	"	6-7	"	7 00

Made-up Plants.

7-in. tubs.	30-34	high.	4	plants in tub	$ 3 00
8-in. "	42-46	"	4	" "	5 00
9 in. "	48-50	"	4	" "	6 00
10-in. "	54 60	"	4	" "	10 00
Large specimens					$5 00 to 18 00

Kentia Belmoreana

The following list of **Kentias** shows an exceptionally fine lot of perfect plants, sure to give satisfaction:

3-in. pot, 4 leaves, height 10-12.....$2 00 per doz.

					Each
4 in.	"	4-5	"	"	14-16.....$0 35
5 in.	"	5-6	"	"	18-22..... 75
6-in.	"	5-6	"	"	20-24.... $1 00 to 1 25
6-in.	"	5-6	"	"	24-28..... 1 50
7-in.	"	6-7	"	"	24-30..... 2 50
8-in.	"	7-9	"	"	36-42..... 6 00

Made-up Plants.

7 in. 30-36 high, 3 plants in pot..... $3 50 each

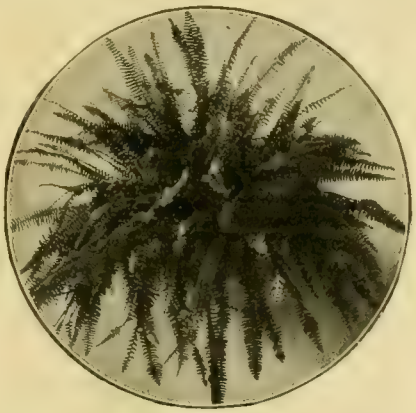
Areca Lutescens

We have an exceptionally fine lot of **Areca Lutescens.**

Size pot	Each	Doz.
3-in.		$ 2 00
4-in	$0 25	3 00
5-in.	50	5 00
7-in.	2 00	24 00
8-in.	3 00	36 00
10-in	5 00	60 00

Kentia Belmoreana.

The above cut shows the plant in 8-in. pot, at $6.00 each.



Boston Fern Baskets

Nicely Furnished, $1.00 each.

Boston Ferns in pots at 15c., 50c., 75c. and $1.00 each.

Asparagus Sprengeri Baskets

Size 10 in. and nicely furnished. Price $12.00 per doz.

Asparagus Sprengeri

Price, 3-in pots 75c. per doz., $6.00 per 100; 4-in. pots $1.50 per doz., $12.00 per 100.

Phoenix Roebelenii, 7-inch, 18 to 24 inches high $2 50 each

Boston Ferns, 10-inch baskets, nicely furnished $1.00 each.

Euonymus variegatus, 5-in. 35c each.

Bay Trees

	Per pair
12 in. tubs 26-in. stem, 18-in. crown height from top of tub 46-in	$12 00
14-in. tubs 46-in stem, 24-in. crown height from top of tub 64-in	15 00
18-in. tubs 48-in. stem 30-in. crown height from top of tub 78-in	20 00
18-in. tubs. 48 in. stem, 36-in. crown height from top of tub 8 -in	25 00

We can recommend the above as good values, and will say they are fine, perfect made-up plants, thoroughly established and are sure to give satisfaction.

Get your name on our mailing list by sending for our catalogue.

GEO. WITTBOLD CO., 1657 Buckingham Place, Chicago.

San Francisco.

NOTHING DOING.

The business at present is about as quiet as it can well be; there is nothing going on and all are complaining very much and with good reason. Flowers are a drug on the market, and whether they are indoor or outdoor grown, they can be bought at very low prices. After this month the supply of carnations and roses will shorten up considerably as the old stock will be pretty well cleaned out of the houses to make room for the young plants. Quite a number are off on vacations and some are contemplating taking a few weeks off in the near future. Most of the growers are very busy preparing their houses for next season and some are making alterations.

NOTES.

The last meeting of the Pacific Coast Horticultural Society was very well attended; three new members were initiated, D. McLaren, R. Diener and T. Schmidt. C. Finke exhibited a very fine lot of dahlias, quite a number of them being his own seedlings. Mr. Diener exhibited a geranium which he originated, the single flower being 2¾ inches in diameter, the color being a very bright red. Mr. Diener claims to have quite a number of novelties and if they are all as good as this geranium, he ought to be able to make a name for himself in the future. Mr. MacRorie and H. Plath each offered a silver cup for the members of the society scoring the most points for exhibits brought to the meetings also for essays read during the year.

T. Munro has been engaged by the Spring Valley Water Co. to lay out and plant its grounds around the pumping stations and reservoirs in this city and vicinity. He is doing this under the supervision of the MacRorie-MacLaren Co., this firm making the plans for the improvements. Mr. Munro was formerly foreman in the Golden Gate park. D. MacRorie is at present on a business trip to southern California.

Visitors: W. A. Reinholt, Petaluma, and J. McHutchison of New York.

P.

SPECIALTIES.

ROSES. from 3-inch pots. CHRYSANTHEMUMS.
CARNATIONS, for fall delivery. SMILAX. VIOLETS.

IN BEST VARIETIES.

Prices low. Send for list.

WOOD BROTHERS, Fishkill, N. Y.

Cacti and Resurrection PLANTS.

Write **A. B. NICKELS,**

1 a Comonfort No. 8,
San Louis Potosi, Mexico.

Indianapolis.

TRADE STILL QUIET.

The same report as to the slowness of trade will hold good this week with the possible exception that funeral work took a little more of the attention of the store men than during the previous week. A very heavy rain, in fact a downpour such as has not been witnessed in this vicinity for 20 years or more, fell on and around this city during the early part of last week. The water came down with the force of lead and mashed the crops to the ground. The farmers throughout the state are greatly discouraged as they were able to save only a very small part of their wheat by immediate action after the rain. The sweet pea has naturally suffered from all this rain as has also the aster.

The Florists' Social Club will hold a picnic at Germania park July 29. Refreshments will be furnished on the grounds so that the members will not have to carry the cumbersome picnic basket. The members of the club are making an effort to have all the retail stores closed on the afternoon of the picnic day. Those not belonging to the club are invited to be present and join in the effort to have a good time and forget about the commercial value of flowers.

Alfred Warner was the recipient last week of demonstrations of the Buick automobile by the local agent. Warner thinks that a light weight car with pneumatic tires would be invaluable for delivery purposes and would be just the thing to lessen the time of the trips between his store on College avenue and his glass which is located about six miles north on the same thoroughfare.

John Bertermann has equipped his country home near Cumberland with a spacious bath tub and heater for the bath water. The bath tub is a sort of a combination swimming pool and water-trough made of galvanized iron and will hold easily 15 barrels of water.

Carl Sonnenschmidt of Smith & Young Co. and Walter Bertermann of the well known Bertermann Bros. Co. are wondering whether the wave of prosperity which has struck this country will carry them over to the Vaderland.

Adolph Baur, Irvin Bertermann, John Bertermann and Herman Junge from this city attended the funeral of Herbert Heller at New Castle last week.

Henry Rieman has just cause to be proud of his two long benches of Boston ferns, numbering several hundred plants.

Edward Bertermann and wife will celebrate their silver wedding anniversary September 3.

Homer Wiegand is braving the dangers of a squirrel shooting expedition.

A. W. B.

Mary Tolman

A new light salmon pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

CHICAGO CARNATION CO., Joliet, Ill.
A. E. HUNT & CO., Evanston, Ill. HUNT BROS., Park Ridge, Ill.

SANGAMO

New, brilliant, glistening pink carnation for 1910.

$12.00 per 100. $100.00 per 1000.

A. C. BROWN, Springfield, Ill.
CHICAGO CARNATION CO. Joliet, Ill.

A New Seedling Carnation :: :: ::

Conquest

light flesh pink, overlaid with a deep rose pink, the color extending over the petals from the center almost to the edge. The most attractive Novelty for 1910. **$12.00 per 100; $100.00 per 1000.**

Chicago Carnation Co., A. T. PYFER, Manager. **Joliet, Ill.**

Seasonable Stock

	Per 100	Per 1000
Primula Obconica, Ronsdorf hybrid, 2½-in	$3 00	$25 00
Chinese Primroses, very best English and French strains, 2½-in	3 00	25 00
Poinsettias, fine stock 2½-in	5 00	
Potted Chrysanthemums, best varieties for pot culture Pompon Large Flowering, Single and Anemone flowers, 4½-in. pots	8 00	
Ferns for Dishes, assorted varieties, 2¼-in. pots	3 00	25 00
Christmas Peppers, 2-in	2 50	
" 3½-in	5 00	

Cash with order.

FRANK OECHSLIN
2572 W. Adams St., CHICHGO.

Neph. Whitmani

2¼-inch.....$ 5.00 per 100
3½-inch..... 25.00 per 100

Boston Ferns 2¼-inch. $3.00 per 100.

Henry H. Barrows & Son, WHITMAN MASS.

Charles H. Totty

MADISON, NEW JERSEY,

Wholesale Florist

Chrysanthemum Novelties my specialty.

CHRYSANTHEMUMS.

READY NOW. From 2¼-in. pots, at $2.50 per 100. $20.00 per 1000: W. H. Chadwick, Virginia Poehlmann, October Frost, Robert Halliday, Golden Glow Monrovia, Golden Wedding, Col D. Appleton Roseric, Pink Ivory, John K Shaw, Maud Dean Glory of Pacific, Viviand Morel Cullingfordii Pacific Supreme, Major Bonnaffon. Golden Eagle $5.00 per 100. Pompons and Singles, our selection $2.50 per 100. $20.00 per 1000.

ELMER D. SMITH & CO., Adrian, Mich.

Chrysanthemums

Touset Robinson G. Pacific, Dr. Enguehard Mrs Beu and Diana from 2 and 3-in. pots 2c each.

Asparagus Sprengeri from bench 3-year-old ready for 7 to 8 in pots 10c each.

80,000 Field Grown Carnation Plants.

MRS. A. M. SCHAFER, 229 Balmoral Ave., Chicago.

ROCKFORD, ILL.—A. L. Hunt, of Kearney, Neb., has leased the Dempsey greenhouse at 1010 Corbin street for five years. He will run the business himself.

ROSES

For Benching.

	Per doz.	100
My Maryland, own roots, strong, 3-in.	$2.00	$15.00
Bride, 3-in.		6.00
Bride, 3½-in.		8.00
Killarney, own root, 3½-in.		20.00
Killarney, grafted, extra 4-in.		20.00
American Beauty, 3½-in.		12.00
Kaiserin, 3½-in.		10.00
Bridesmaid, grafted, 4-in.		12.00

Vaughan's Seed Store,

Chicago. New York.

FIELD-GROWN CARNATIONS.

6000 White Enchantress. $6 00 per 100.
8000 White Perfection.
6000 Rose Enchantress.
1200 Lawson
10,000 Enchantress. 4000 Victory.
300 Lawson-Enchantress

$5.00 per 100; $45.00 per 1000.

Cash. Limestone land: no stem rot. W. Fargo. U. S., Adams and American Express.

W. SABRANSKY, Kenton, Ohio.

EXTRA FINE, FIELD-GROWN

Carnation Plants

Free from disease. I doubt if there is another grower who has carnation plants to equal these. Following is the list ready for immediate shipment:

Enchantress,	**Pink Lawson,**
Rose Pink Enchantress,	**Victory,**
White Enchantress,	**Harlowarden,**
Bountiful,	**Patten.**
White Lawson.	**Perfection.**

Price, **$6.00** per 100. Cash with order.

HOWARD P. KLEINHANS, Easton, Pa.

30,000 FIELD CARNATIONS

NOW READY.

White Perfection, White Enchantress, Lloyd, Winsor, Beacon Rose Enchantress, Enchantress, Bonnie Maid. Imperial $6.00 per 100; $50.00 per 1000.
Splendor Welcome, $10.00 per 100.

I. M. RAYNER, Greenport, N. Y.

Tell Your Dealer You "Saw It in THE AMERICAN FLORIST."

GRAFTED ROSE PLANTS

Choice stock ready to plant in the benches.
2,000 Maids, 4-inch.....$12 00 per 100
3,000 Brides, 4-inch.....$12 00 per 100
4,000 Killarney, 3 1-2-inch..... 15 00 per 100

OWN ROOT ROSE PLANTS.

5.000 Kaiserin, 3-inch .....$4 00 per 100
5,000 Maids, 2 1-2-inch.....$3 00 per 100

Killarney Bench Plants **Grafted, 2 years old. Price, $50.00 per 1000.** Ready for immediate shipment. These plants will make fine stock for replanting in the benches.

O. P. BASSETT Carnation Plants.

Strong, healthy, well rooted plants from 2½-inch pots. Acknowledged the "Best Red" in the market. Immediate delivery, **$10.00 per 100.**

Greenhouses: Hinsdale, Ill. **BASSETT & WASHBURN,** **Office and Store:** 76 Wabash Ave., CHICAGO

Grafted Roses

Strong, thrifty plants in 3½-in. pots.

Bride, Bridesmaid, Kaiserin, Richmond, Chatenay,
$12.00 per 100.

Rhea Reid and Mrs. Jardine,
$20.00 per 100.

Jackson & Perkins Co.
Newark, New York.

ROSES

	Per 100	1000
Beauties, 4-in. extra strong	$12 00	$110 00
" 3-in.	9 00	80 00
" 2-in.	6 50	60 00
Rhea Reid, 2¼-in.	5 00	45 00
Perle, Fine, strong 2½-in.	5 00	45 00
Potter Palmer, 2½-in.	5 00	45 00

	Per 100	1000
Bride,	$ 5 00	$ 45 00
Maid,	5 00	45 00
Kaiserin, 3½-in.	6 50	55 00
Uncle John, Fine strong, 2½-in.	4 00	35 00
Killarney, Fine, strong, 2½-in.	5 50	
" 3½-in.	7 50	

Extra fine young rose stock for benching.

CHRYSANTHEMUMS

Large stock of **Monrovia,** the early yellow exceptionally fine, ready now.
2½-in. $3 00 per 100 $25 00 per 1000.
For other varieties of 'Mums, see classified adv.

Sprengeri, strong, 3-in.... $4 00 per 100: $35 00 per 1000
Smilax, 3-in..... 4 00 per 100: 35 00 per 1000

Above is all choice stock, guaranteed to please. 2 per cent off for cash.
Terms: 30 days net Remittances must accompany orders from unknown parties.

POEHLMANN BROS. CO., **Morton Grove, Ill.**

A Few Roses

GRAFTED
Brides, Bridesmaids, 3½-in. pots, $15.00 per 100.

OWN ROOTS
Brides, Bridesmaids, 3-in. pots, $7.00 per 100.

J. L. DILLON
Bloomsburg, Pa.

A FEW GOOD THINGS YOU WANT.

Rex Begonia, 2-in. $5.00 per 100.
Asparagus Sprengeri, 3-in. $5.00 per 100.
Geraniums, Nutt Doyle, Perkins Ricard, Grant, La Favorite, R. C., $1 25; 2-in. pots $2.00; 3-in., $4 00 per 100; Trego, Viaud, Castellane, Poitevine, Jaulin, R. C., $1.50; 2-in pots, $2 50; 3-in., $5 00 per 100; Mme. Salleroi 2-in., $3.00 per 100.
Asparagus Plumosus, 2-in. $3.00 per 100; 3-in., $5 00 per 100. Cut fronds 25c per bunch.
Boston Ferns, 5-in 25c each. **Whitmani Ferns,** 4-in. 25c each
Roses, Brides, Maids and Golden Gate, 3 in. $5.00 per 100
Cash with order. No C. O. D. All shipments at risk of purchasers, after being delivered to the express companies properly packed in good order
GEO. M. EMMANS, **Newton, N. J.**

ROSES

A SPECIALTY.

The Dingee & Conard Co.,
WEST GROVE, **PA.**

Smilax

2½- n. pots, $2.50 per 100; $15.00 per 1000.

Poinsettias
Good Stock, $4.00 per 100; $30.00 per 1000.

GEO. REINBERG, 51 Wabash Ave., Chicago.

Roses == Sold

Except H. P's, H. Cl's Mosses and M. Niel.
New crops coming along finely.

THE LEEDLE FLORAL COMPANY, SPRINGFIELD, OHIO

Washington.

STOCK AND BUSINESS SHORT.

The city is practically deserted, and in consequence trade has decreased to a great extent; stock is also at low tide, for about the only flowers in sight are gladioli and roses. Asters are not up to the standard owing to the long drought.

Geo. C. Shaffer, Elmer Mayberry and Edward S. Schmidt, the committee in charge of the annual outing, look forward to a big attendance, and hope that all who possibly can get away that day will be on hand to make this the banner outing of them all. The outing will take place at Great Falls, Va., July 29. All members and their friends are requested to be present. Those who attended the previous outings will no doubt remember the good time they enjoyed. The majority of the retail stores have decided to close at noon on the day of the outing in order to give everyone a chance to be present. The club voted that this should be a basket picnic; the only expense will be the car fare, which is 35 cents, round-trip ticket. All refreshments will be supplied by the club. Prizes will be awarded the winning contestants competing in the different games. Two trains have been chartered, so there need be no fear of crowding. Trains will leave Aqueduct bridge, Thirty-sixth and M streets, at 2 p. m. sharp. Those who do not carry baskets and wish to get their dinner at the falls are requested to notify Carl Blaubock, Great Falls Inn, Fairfax County, Va., not later than July 27. Those who receive tickets and do not use same are requested to return them on day of outing. G. S.

ORCHIDS ORCHIDS ORCHIDS

Choice varieties, selected from large importations.

Choice named, well known and certificated hybrids.

In enormous quantities for exhibition purposes and cut flower growers.

STUART LOW & CO.

Beg to call the attention of lovers of Orchids in the United States to their large, varied and well grown stock of Orchids, which is being frequently augmented by large importations.
Visitors to Europe are cordially invited to inspect for themselves their extensive stock.

Also their large and well grown stock of

Roses, Fruit Trees in pots, Fruit Trees for outside planting, Stove and Greenhouse Plants.

Catalogues on application.
Estimates free.

Bush Hill Park, Enfield, England

Pittsburg.

The summer dullness, with the usual scarcity of good stock at this time of the year, make things very quiet in local circles. Kaiserin roses and lilies are the only flowers of good quality as well as quantity.

NOTES.

The wedding of E. J. McCallum was solemnized at the home of the bride July 17 in the presence of some 35 guests, the Rev. Graham, of the M. E. church, officiating. The bride was attended by her sister, Miss Dorcas Johnston, and W. Webb, of Falls Creek, was best man. The bride was daintily attired in white lace and carried a shower bouquet of Kaiserin roses and lily of the valley. Her attendant was also clad in white and carried a bouquet of Carnot roses. (The effect of the Carnot was exceedingly beautiful and we cannot understand why this rose is not used more extensively.) After the ceremony a wedding dinner was served. The bride's table was set for 12, the centerpiece being Killarney and Kaiserin roses. A feature of the affair was that the day also commemorated the twenty-fifth anniversary of the bride's parents. Mr. and Mrs. McCallum received a great ovation in the shape of a "tin-can serenade" and a hailstorm of rice and old boots, after which they left on a late train for the wilds of Canada. It is interesting that all three members of the McCallum Co., Messrs. K. Klinke, W. Q. Potter and E. J. McCallum, have been married within four weeks of each other. They all deserve and certainly have the good wishes of everyone in the trade.

Wm. Q. Potter, of the McCallum Co., who has been away on his wedding trip, was taken sick about two weeks ago, which compelled him to take to his bed, and the much anticipated trip turned into a rather sad and serious occasion. Mr. Potter is at his business again, although his recovery is progressing rather slowly. He has the best wishes of all his associates for a complete and speedy recovery.

Dard Well, of the Gasser Co., Cleveland, O., who returned from a business trip to Washington, D. C., stopped here on his return, visiting local wholesale houses.

Frank Mendell, who is at present employed in Cleveland, is home on a vacation.

Geo. Marshall, of the Pittsburg Cut Flower Co., leaves July 24 for Atlantic City.

Jas. Clelland, of Grove City, was a visitor this week.

J.

HANOVER, MASS.—J. W. Beal is making an extensive addition to his greenhouse.

Splendid Plants. **ORCHIDS** Guaranteed Type.

Fresh Stock. Direct Shipments.

Cattleyas: Labiata, Mendelii, Mossiae, Gigas, Speciosissima, Gigas Sanderiana, Aurea, Chrysotoxa.

Mountain Fastness to Grower. Send for Prices.

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Largest Importers, Exporters, Growers, and Hybridists in the World.

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NEW YORK OFFICE: Room 1 235 Broadway. T. MELLSTROM, Agent.

Orchids

Of all kinds and for all purposes from the dry imported unestablished plants to the growing established plants ready to put in your greenhouses and wait for the flowers.
Write for catalogue and special lists.

Lager & Hurrell, Summit, N. J.

ORCHIDS

We have imported this year all the commercial Cattleyas and other Orchids. Will have again **Cattleyas Lawrenceana, Gaskelliana, Dowiana** and **Percivaliana.**

Write today.

CARRILLO & BALDWIN, Secaucus, N. J.

BAY TREES.

Standards, Pyramids and Columns.

ORCHIDS

DIRECT FROM THE WOODS Cattleya Trianae, C. Gigas and other commercial varieties.

JULIUS ROEHRS CO., Rutherford, N. J.

Asparagus Plumosus

Strong 3-year old clumps at $20 00 per 100; also 2¼-in. pots at $20.00 per 1000.

ASPARAGUS SPRENGERI.....

2¼-in. pots extra strong. $15 00 per 1000.

This is a bargain to close out.

WALTER W. COLES, Kokomo, Ind.

Miscellaneous Plants

Alternantheras, 4 varieties. $2.50 per 100.
Bouvardias, pink, white, scarlet. 2-in. pots. $3.00 per 100
Chrysanthemums, the best three early varieties: White Cloud, Pacific Supreme, Golden Glow. 2½-in pots $3.00 per 100.
Clematis Paniculata, 3-in. pots $5.00 per 100.
Clematis, Large flowering varieties, 2 year-old home grown plants, $3.00 per doz. Varieties: Jackmani, Henryi, Mme. Edw. Andre.
Clematis, coccinea. $2.00 per doz.
Geraniums, best varieties from 3-in. pots, $4.00 per 100 4-in. pots $6 00 per 100.
Hardy Garden Pinks and **Phlox,** clumps from open ground. $1.00 per doz.
Lobelia, Double blue 2½-in. pots $3 00 per 100.
Stock from 2½-in. pots, $2.50 per 100: Alyssum Carpet of Snow; Fuchsias 4 varieties; Parlor Ivy; Tradescantia; Achyranthes Lindenii; Petunia California Giant and Star; Ageratum, Inimitable; Feverfew, Little Gem; Coleus. Golden Bedder quadri-color; Golden Feather Cupheas, Snapdragon, Lantanas, Smilax, Asparagus Sprengeri.
SEEDLINGS from flats, at $1.00 per 100: Dracena Indivisa, Asparagus Sprengeri.

C. EISELE,
11th & Westmoreland Sts. **PHILADELPHIA, PA.**
Mention the American Florist when writing

ASTERS Semple's, 4 separate colors' fine plants. $1.25 per 1000.
Geraniums, double Grant, Bruant, Viaud, etc. 2-in. $1.50 per 100.
Heliotrope, Stevia, 2-in., $1 50 per 100. **Paris Daisy,** yellow white **Swainsona,** alba. **Stevia,** green. **Celestial Peppers,** 2 in., $1.50 per 100.
Asparagus Sprengeri, 2-in., 2c. **Jerusalem Cherries,** 2-in., $2.00 per 100. Cash or C.O.D.

BYER BROS., Chambersburg, Pa.
Mention the American Florist when writing

ROBERT CRAIG CO.

HIGH CLASS **PALMS**

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

NEPHROLEPIS SCHOLZELI

The New Crested Scotti Fern

This crested sport of Scotti has proven all that has been claimed for it and it promises to become even more popular that its parent.

It is without a doubt the ideal crested fern: a good quick grower, and makes a salable plant in any size from a 3-inch pot to a large specimen A profitable fern for every body. Awarded the following honors:

Shaw Gold Medal, St. Louis Horticultural Society, Nov. 3, 1908, for best plant of decided merit for cultivation, not previously an article of North American commerce.

Silver Medal, Offered by the Society of American Florists, through the St. Louis Horticultural Society, Nov. 3, 1908, for the most meritorious plant or flower of American origin.

Certificate of Merit, Of the Horticultural Society of St. Louis, November 3 1908

Silver Medal, Pennsylvania Horticultural Society, Philadelphia November 10 1908, for best new plant exhibited.

Certificate of Merit, Massachusetts Horticultural Society Boston November 6 1908.

Certificate of Merit. Dutchess County Horticultural Society, Poughkeepsie N Y, October 30 1908

Certificate of Merit. Morris County Gardeners' and Florists' Society Madison, N J, October 30, 1908.

Certificate of Merit, Chestnut Hill Horticultural Society, Philadelphia Pa November 4, 1908.

Certificate of Merit, American Institute, New York City, November 12 1908.

Certificate of Merit, Germantown Horticultural Society, Germantown Philadelphia Pa, November 9, 1908.

Certificate of Merit, Horticultural Society of New York, November 18 1908, for distinct new variety of merit.

Bronze Medal, International Horticultural Exhibition, Berlin, Germany, April 2, 1909.

We offer for immediate delivery, nice strong plants from 2¼-in pots, At **$3.50** per dozen; **$25.00** per 100; **$200.00** per 1000. 25 supplied at 100 rates: 500 supplied at 1000 rates.

HENRY A. DREER, Inc.,
714 Chestnut St., - PHILADELPHIA, PA.

St. Louis.

GLADIOLI PLENTIFUL.

The market the past week was slow. Where any real good stock was seen it was bought up. This was especially the case with carnations. Good stock is now selling at 1½ and 2 cents. Some good roses have made their appearance, notably My Maryland. Killarney opens up too quickly this hot weather, and therefore is not much called for. Asters with a few cool nights will show improvement; gladioli are becoming a glut and hard to get rid of, the light colors having the call for funeral work. Greens are plentiful.

NOTES.

Paul Foerster, one of the keepers in charge of the Missouri Botanical Gardens, who raises everything in the garden, has a new arrival which has not yet been tagged and will not be. He will be named Paul, same name as his father; first boy ever born in the garden. He has two little daughters, Julia and Edna. Mr. Foerster has been connected with the garden for over 12 years and lives in a cottage at the garden.

Young & Sons are entirely changing their retail establishment. The windows are being taken out and the front will be materially enlarged. C. Young, Jr., who has charge of the store during the absence of Jim Young, stated that the firm had done a larger trade this year than ever before.

Everyone is now talking picnic and a very large attendance is expected. Charlie Schoenle, Wm. C. Smith and Henry Ostertag are doing their very best to make this the banner picnic.

Bassett & Washburn, Chicago, are shipping from their new crop of American Beauty roses to this city. They are now mostly short and medium and of good color.

Heller Bros., of New Castle, Ind., are consigning their new crop of American Beauty roses to this market, shorts and mediums of good color.

Poehlmann Bros. Co., Chicago, is shipping some good carnations to this market. They carry well and are sought after.

Alex Siegel leaves this week on a long trip to the Mackinac Islands. He expects to be absent six weeks.

Most of the retail stores, as well as the wholesalers, will close the afternoon of picnic day. W. F.

What Shall I Fill My Empty Houses with Now?

WHAT WILL PAY THE BEST?

Is the cry all over. Use good judgment. I tell you what. ☞ Listen to me. You will never go wrong by devoting a reasonable space to **Araucaria Excelsa**, **Robusta Compacta** and **Excelsa Glauca, Kentias, Palms,** etc., while they are cheap. They will grow into money for you while you are asleep. Every florist knows **the Araucaria King, GODFREY ASCHMANN, of Philadelphia.** Look at what bargains he offers you in this advertisement:

THE ARAUCARIAS.

We are the largest importers of these so well known beautiful evergreen decorative plants **Araucaria Robusta Compacta, Glauca and Excelsa.** ☞ Florists, bear in mind there is no garden lawn or porch, etc., in the summer that is complete without the Araucarias; therefore if you want to make money, ☞ Recommend your customers to buy an Araucaria. Any variety will do to introduce this so valuable plant to your customer friends. ☞ Look! We make you special prices:

Araucaria Excelsa Glauca. This is a beautiful blue variety, very graceful and beautiful, Specimen plants 6-7 8 in. pots, 4-5 year old, 4 5-6 tiers, 20-25-30-32 in high, same in width, $1.50 $1.75, $2.00, $2 50 to $3 00 each.

Araucaria Robusta Compacta. Specimen plants, 7 to 8 in. pots 4 to 5 years old, 3-4-5 tiers, 20-25-30 in. high same in width, $1.50, $1.75, $2.00, $2.50 to $3 00 each.

Araucaria Excelsa, 3-4-5 year old 5-6 7 tiers, 6-in. pots 20-25 30-35 in high 75c, $1.00, $1.25, $1.50 each. Smallest size, new importation 2 to 3 years old 5½ to 6 in. pots, 40c, 50c, 60c and 75c. Can meet all applications.

Araucaria Robusta Compacta and Excelsa Glauca, April 1909 importation 6-in pots 2-3-4 tiers 3 years old, 12 to 20 in. high $1 00, $1.25, $1 50 each.

Kentia Forsteriana, made up 8-in. pots, one large, 45 to 48 in. high, in center, three smaller ones around $4.00; single 6 7 in. pots from 20 to 48 in. high, 75c, $1.00, 1.25, $1.50, $2.00, $2.50 to $3 00 each.

Kentia Belmoreana, 6-in. pots, 25 to 30 in. high, 5 6 good leaves 3 to 4 years old, 75c, $1.00, $1 25 to $1.50; 4-in pots 18 to 20 in. high 25c to 30c.

Begonia Gloire de Lorraine. Our special strains introduced last Christmas, are well known in the florist trade. We have both the deep pink and the light pink varieties, 4-in. pots, 30c.

Sago Palms or Cycas Revoluta, 5 6 7 and 8 in. pots, 5 to 20 leaves to a pot. Price, 10c per leaf.

Ficus Elastica, or Rubbers, 5¼-5½-6 in. pots, 25c, 35c to 50c.

Adiantum Hybridum, large plants fit for 7-8 in pots, suitable for cutting, 35c, 40c and 50c.

Areca Lutescens, 4-in., made up of three plants 20c

Cocos Weddelliana, 3-in., 15c to 18c; 3½-in., 20c to 25c.

Ferns for Dishes, a good assortment, 2½-in., $3.00 per 100.

Asparagus Plumosus, 2½ in., $25.00 per 1000, $3.00 per 100; 3-in. $4 00 per 100.

Cosmos, four best early varieties, made up, three plants in a pot, $4 00 per 100.

Asters, Victoria, German, 5 best sorts, $3.00 per 100.

Jerusalem Cherries or Solanum Multiflorum, the new improved varieties, with large berries, 2½ in. pots, $5.00 per 100.

Zinnia Elegans, 2½ in. pots, in bloom, mostly white, valuable for cut flowers, $5 00 per 100

Cannas, all sorts, and **Scarlet Sage,** 4-in., $5.00 per 100.

Please state if in or out of pots.

All goods must travel at purchaser's risk only, Cash with order, please.

GODFREY ASCHMANN, 1012 W. Ontario St., **Philadelphia, Pa.**

Importer, Wholesale Grower and Shipper of Pot Plants.

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Glass. French and American. "White Rose," Stenzel Glass Co., 2 Hudson St., N. Y.

Glass. High grade, double thick, greenhouse glass. Lord & Burnham, 1133 Broadway, N. Y.

Glass of all kinds and sizes. Sharp, Partridge & Co., 22d and Lumber Sts., Chicago.

Glass, greenhouse, all sizes. H. M. Hooker Co., 120-123 W. Washington St., Chicago.

GLAZING POINTS.

Glazing points, Lord & Burnham special glazing nails (points). Lord & Burnham Co., 1133 Broadway, New York.

Glazing points: See the point? Hold glass firmly. Peerless glazing points are the best. No rights or lefts. Box of 1,000 points, 75c., postpaid. Henry A. Dreer, 714 Chestnut St., Philadelphia.

Siebert's zinc never-rust glazing points, 3 sizes, ⅝ and ⅞, 40c per lb.; 16c extra by mail; 7 lbs., $2.50, 15 lbs., $5 by express. Randolph & McClements, Baum and Beatty Sts., Pittsburg, Pa.

Vaughan's Perfection Point, No. 2 single thick; No. 2½ double thick, 55c per 1,000; by mail 70c; 5,000 lots, 50c per 1,000 by express. Vaughan's Seed Store, Chi. & N. Y.

GREENHOUSE CONSTRUCTION.

Greenhouse construction, cypress roof material and all greenhouse fittings. Plans and sketches submitted on request. John C. Moninger Co., 113 Blackhawk St., Chicago.

Greenhouse construction of all kinds and conservatories. Estimates and catalogues on request. The Foley Mfg. Co., Western Ave. and 26th St., Chicago.

Greenhouse construction, builders of every type of greenhouse, the most modern designs. Hitchings & Co., 1170 Broadway, New York.

Greenhouse construction, semi-iron greenhouses, new truss houses, iron frame houses. Lord & Burnham Co., 1132 Broadway, N. Y.

Greenhouse construction builders of modern greenhouses. Myers & Co., 1122 Betz Bldg., Philadelphia.

Greenhouse construction and equipment. King Construction Co., North Tonawanda, New York.

GUTTERS.

Gutters, cast-iron. Lord & Burnham Improved V-shaped gutter with drip gutter attachment. Lord & Burnham Co., 1133 Broadway, N. Y.

Gutters, Jennings' improved iron gutters. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

INSECTICIDES.

Insecticides. Carmen's Antipest Insecticides and fungicide, $1.50 per gal. Perfection Chem. Co., Flushing, N. Y.

Fresh tobacco stems in bales of 300 lbs., $1.50. W. C. Beckert, N. S., Pittsburg, Pa.

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Knives, razor steel, hand forged, postpaid; Propagating, 50c; Budding, 35c; Grafting, 25c; Pruning, 75c. Cat. free. Maher & Grosch Co., 91 A St., Toledo, O.

LAWN FURNITURE.

Lawn furniture, settees, chairs, hitching posts, etc. The Sterling Emery Wheel Mfg. Co., Tiffin, O.

MECHANICAL DRAFT APPARATUS.

Mechanical draft apparatus. Sirocco, American Blower Co., Dept. A. F., Detroit.

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The Moore-Livingston Graduating or adjusting plant stands. Moore-Livingston Co., Lansdowne, Pa.

Scollay's plant sprinklers and putty bulbs. John A. Scollay, 74 Myrtle Ave., Brooklyn, New York.

FOR SALE.—Lot vegetable cuts for catalogue work. Proof sheets on request. Southwestern Seed Co., Fayetteville, Ark.

Engravings and illustrations for catalogues. Columbian Engraving Co., 331-335 Dearborn St., Chicago.

Wire rose stakes and tying wire. Model plant supports. Igoe Bros., 63-71 Metropolitan Ave., Brooklyn, N. Y.

Windler's clamp casing. Geo. B. Windler, 4059 Delore Ave., St. Louis.

Sterling iron reservoir vases. Sterling Emery Wheel Mfg. Co., Tiffin, O.

Engravings of all kinds. Dearborn Engraving Co., 1322 Wabash Ave., Chicago.

Pillsbury's Carnation Staple, 50c per 1,000, postpaid. I. L. Pillsbury, Galesburg Ill

Wittbold cement post moulds. E. H. Hunt, 76-78 Wabash Ave., Chicago.

Heller's mice-proof seed cases and bins. Heller & Co., Montpelier, O.

Gummed gold and purple letters. J. Lichtenberger, 1566 Ave. A., New York.

Hyacinth vases. Nicholas Wapler, 28 Warren St., New York.

Sulfur Burners. Benjamin Dorrance, Dorranceton, Pa.

PAINT, PUTTY, ETC.

Paint, Ideal Greenhouse Lead; Special Greenhouse Putty. Lord & Burnham Co., 1133 Broadway, New York.

Paint, Putty, etc. The Jas. H. Rice Co., cor. Michigan, St. Clair and Illinois Sts., Chicago.

Putty, Paint, etc. H. M. Hooker Co., 120-128 W. Washington St., Chicago.

Mastica, Vaughan's Seed Store, Chicago and New York.

Mastica. F. O. Pierce Co., 12 W. Broadway, New York.

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Pipe, iron fittings, etc., galvanized iron sash hinges, screw eyes, screw hooks, U-bolts, galvanized iron buckles and wires. Fittings for purlin and ridge supports. Foley Mfg. Co., Western and 26th, Chicago.

Pipes and fittings, cast iron and wrought pipe, valves, elbows, pipe hooks, automatic air headers, etc. Lord & Burnham Co., 1133 Broadway, New York.

Ideal Pipe Clamps. A quick repair for rust holes and split pipes. Write for circular. Wm. Moll, 1664 Columbus Rd., Cleveland, O.

Iron fittings, patent iron bench fittings and roof supports. Diller, Caskey & Keen, 6th and Berk Sts., Philadelphia.

Pipes, valve fittings. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

POTS, PANS, ETC.

Pots, Standard seed pans, cut flower cylinders, hanging baskets, lawn vases, etc. Hilfinger Bros. Pottery, Ft. Edwards, N. Y.

Pots, red standards, full size and wide bottoms. Detroit Flower Pot. Mfy., 490 Harvard St., Detroit, Mich.

Pots, before buying write for prices. Geo. Keller & Son, 361-63 Herndon St., near Wrightwood Ave., Chicago.

Pots, red standard. Paducah Pottery Co., Paducah, Ky.

Pots, florist red. Peters & Reed Pottery Co., Zanesville, O.

Pots, standard, all sizes. A. F. Kohr, 1521 Leavitt St., Chicago.

Pots. Syracuse red. Syracuse Pottery Co., Syracuse, N. Y.

Pots, pots of all kinds. A. H. Hews & Co., No. Cambridge, Mass.; Long Island City, New York.

Pot hangers. Kramer's $1 a doz., exp.; $1.25 mail. I. N. Kramer & Sons, Cedar Rapids, Ia.

Paper flower pots, 500,000. Chicago House Wrecking Co., 35th and Iron Sts., Chicago.

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Free to florists—Sample box of red pots. George E. Feustel, Fairport, Iowa.

REFRIGERATORS.

Florists' Refrigerators. McCray Refrigerator Co., 960 Mill St., Kendallville, Ind.

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Cane Stakes. Standard grade 6 to 8 feet, per 100, 85c; 500 for $3; $5.50 for 1,000.
Pipe Stems about 6 feet, per 100, 60c; per 1,000, $5. Vaughan's Seed Store, Chicago.

STEAM TRAPS.

Steam traps, the Standard return steam trap has no equal for its simplicity of working. E. Hippard, Youngstown, O.

Morehead Return Steam Traps, Morehead Mfg. Co., 1047 Grand River Ave., Detroit.

Detroit return traps. American Blower Co., Dept. A. F., Detroit, Mich.

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Supplies. Rustic hanging baskets, rustic pedestals, settees, chairs, tables, birdhouses, window boxes, vases, etc. Reed & Keller, 122 W. 25th St., New York.

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Supplies, wire designs. Pittsburg florists' Ex., 228 Diamond St., Pittsburg, Pa.

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Supplies of all kinds and novelties. E. H. Hunt, 76 Wabash Ave., Chicago.

Supplies of all kinds. E. F. Winterson Co., 45-49 Wabash Ave., Chicago.

Supplies of all kinds. A. L. Randall Co., 19-21 Randolph St., Chicago.

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THE BLACK STUFF FINE TOBACCO POWDER. Green flies and black ones, too, die on sight of the bag. 'Tis fine as flour and made from the black, strong tobacco. For dusting on foliage it has no equal.
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Toothpicks, wired. 10,000, $1.75; 50,000, $7.50. W. J. Cowee, Berlin, N. Y.

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BOOKS FOR FLORISTS

The following books should be in every florist's and gardener's library. A good book on any subject in which you are specially interested is worth years of experience and should be kept convenient for reference at all times.

Send prices quoted and we send the books.

THE AMERICAN CARNATION (C. W. Ward).—A complete treatment of all the most modern methods of cultivating this most important flower. Illustrated. $3.50.

THE HORTICULTURISTS' RULE-BOOK (L. H. Bailey).—Contains information valuable to all those engaged in any branch of horticulture. Illustrated. 312 pages. 75 cents.

MANUAL OF THE TREES OF NORTH AMERICA (Sargent).—The most complete and authentic work on the subject. The pages number 826, with over 600 illustrations. $6.00.

THE ROSE.—Its cultivation, varieties, etc. (H. B. Ellwanger).—A complete guide of the cultivation of the rose, together with the classification of all the leading varieties. $1.25.

HOW TO MAKE MONEY GROWING VIOLETS (Saltford).—This is by a practical grower who has made a success of the business. No grower of violets can afford to be without it. 25 cents.

GREENHOUSE CONSTRUCTION (Taft).—It tells the whole story about how to build and heat a greenhouse, be it large or small, and that, too, in a plain, easily understood, practical way. It has 118 illustrations. $1.50.

HEDGES, WINDBREAKS, ETC. (Powell).—A treatise on the planting, growth and management of hedge plants for country and suburban homes. A volume of 140 pages, with twenty-two illustrations. 50 cents.

YARD AND GARDEN (Baker). An excellent book treating on the method of making home gardens attractive. The author covers a wide range of subjects in quite an able manner and the book is full of interest for the amateur gardener; 140 illustrations, 420 pages, $2.

CELERY CULTURE (Vaughan).—The important subject of celery culture is thoroughly covered in this illustrated pamphlet of 59 pages. The florist raising young plants of celery and those who grow the plants to maturity will alike find it valuable. 50 cents.

SUCCESS IN MARKET GARDENING (Rawson).—Written by one of the most prominent and successful market gardeners in the country, and who has the large t glasshouses for forcing vegetables for market in America. Outdoor and indoor crops are treated. Illustrated, $1.00.

THE GOLDFISH (Mulertt).—A number of florists find goldfish an attractive and paying addition to their business. The best advice is given in every department of the subject, including construction and care of the parlor aquarium, in this volume of 160 pages, handsomely illustrated. $2.00.

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SIZE 2½ SIZE 2

Original Van Reyper's
No rights or lefts. No. 2 single thick, No 2½ double thick 1000 for 55c, by mail 70c, 5000 lots 50c per 1000 by express.
Vaughan's Seed Store, Chicago, New York

A Fertilizer Trust.

The International Agricultural Corporation has elected officers as follows: W. Schmidtmann, Germany, president; H. C. Sickles, Wilkesbarre, Pa.; vice-president; John W. Fay, Columbia, Tenn.; secretary; R. M. Round, Buffalo, N. Y., treasurer; T. C. Meadows, New York, general manager. It is understood that $4,000,000 has been paid for the Schmidtmann potash mine in Germany, just taken over. The company has also taken over one of the largest phosphate mining companies of Florida, fertilizer plants at eight points, and a number of dry-mixer plants in southern and eastern states.—Country Gentleman.

Davenport, Ia.

TRADE GOOD FOR SEASON.

Considering the usual state of the market in July, business is a little better than usual for this month, with hardly enough stock to supply the demand. Carnations and roses are poor and scarce. There is an abundance of lilies and gladioli and a few asters are coming in. But, all in all, flowers of quality are scarce. T. E.

RACINE, WIS.—J. Bernsted was badly hurt in a runaway, July 16, and is now in the hospital suffering from a number of contusions.

NEWARK, N. J.—Harry Spednarinki, watchman at Geo. Penek's greenhouses, fell from a wagon July 14 and sustained serious injuries.

MILWAUKEE, WIS.—Wm. Edlefsen, president of the Edlefsen-Leideger Co., and his wife celebrated the fortieth anniversary of their marriage the early part of July. Their youngest daughter was married on the same day.

ELWOOD, IND.—Mrs. Dubendorfer is arranging for a large addition to her greenhouse plant, this having become necessary by the increasing business. Mrs. Dubendorfer and her daughter have been in Chicago purchasing material for the purpose.

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The most durable white paint for this purpose.
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For particulars concerning Hail Insurance, address

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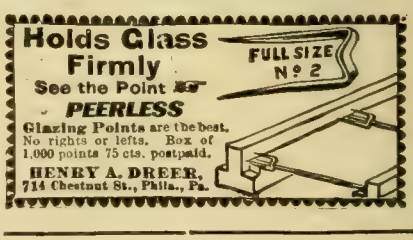
SADDLE RIVER, N. J.



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Never Rust
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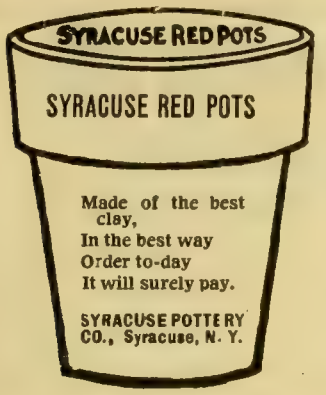
Are positively the best. Last forever. Over 30,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive. Easy to extract. Two sizes ⅝ and ⅞, 40c per lb., by mail 16c extra; 7 lbs. for $2.50 15 lbs. for $5.00 by express. For sale by the trade

RANDOLPH & McCLEMENTS, Successors to Chas. T. Siebert, Baum & Beatty Sts., Pittsburg.



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Packed in small crates, easy to handle.

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1500	2¼ " 5.25	120	7 " 4.20
1500	2½ " 6.00	60	8 " 3.00
1000	3 " 5.00		HAND MADE
800	3½ " 5.80	48	9-in., in crate, $3.60
500	4 " 4.50	48	10 " 4.80
456	4½ " 5.24	24	11 " 3.60
320	5 " 4.51	24	12 " 4.80
210	5½ " 3.78	12	14 " 4.80
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Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets Lawn Vases, etc. Ten per cent off for cash with order. Address

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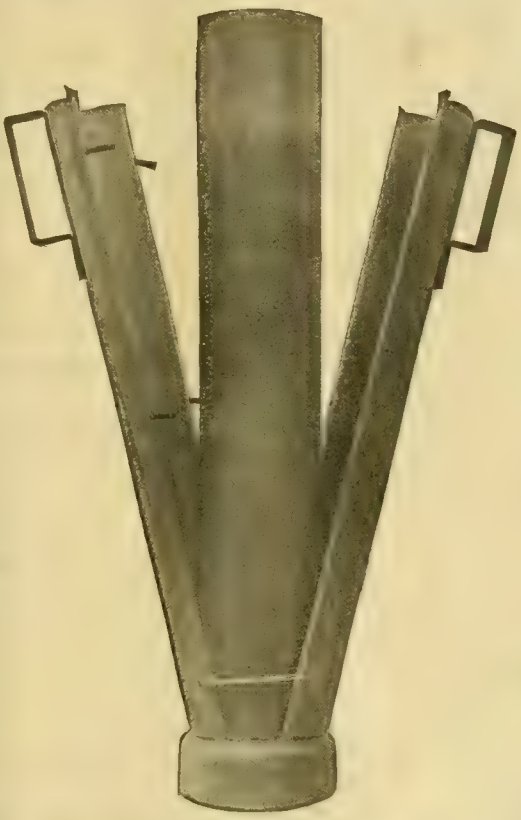
Bridlington, a famous English health resort on the coast of Yorkshire, has achieved further distinction in that it possesses the only floral clock in existence which keeps correct time. There are numerous other so-called floral clocks, but the hands of these do not move. The figures on the dial of the Yorkshire clock are composed of growing plants with differently colored blossoms, while the hands are zinc troughs containing mould in which are flowering plants. The machinery which controls this clock obviously could not be placed underground beneath the dial. It is situated, therefore, in a shelter close by and the driving power is carried to the hands by an underground steel shaft. The face of this unique clock fronts upon the Royal Prince's parade. —Harper's Weekly.

LAWRENCE, MASS.—Charles E. Wingate has been for an outing at Birch Island, Me.

NEWPORT, R. I.—James Robertson, head gardener for Mrs. T. O. Richardson, has been appointed president of the Newport Horticulaural Society.

Windler's Clamp Casing



A casing made of galvanized iron

IN TWO PARTS

when bolted together

ONTO POSTS

it serves to hold cross pieces for temporary bench doing away with all superfluous pegs, posts and props.

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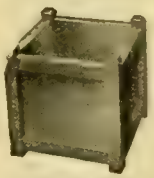

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A strong and quick acting manure highly recommended for carnations and chrysanthemums

SHREDDED CATTLE MANURE

Easy to Handle and Apply

Stronger and better in every way than rough manure. Lasts much longer on the benches. Unequalled for mulching and feeding roses, liquid manuring and mixing with bench and potting soil. Used by all the largest growers.

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Mention the American Florist when writing

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OWENSBORO, KY.

Fredericton, N. B.

The weather for some weeks past has been ideal for crops, especially for roots. Potatoes never looked better at this time, although the hay grass will be a little below the average, owing to the setback it got in June. The only floral work is in the way of funeral designs, wedding bouquets and decorations. The lawns and gardens have a beautifully fresh appearance. Trade in all lines is about average. The demand for vegetables is growing; new potatoes are just about ready here to dig; strawberries have retailed at 8 to 10 cents per box. The future prospects are good.

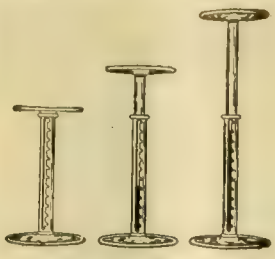
J. B.

Educating the Public.

"Still another scheme for educating the general public has come to my attention," said the city salesman. "The other day I happened to be in a florist's shop talking with the proprietor when a man came in with a bunch of 4x5-inch slips of white paper.

"'Will you take these?' he said to the proprietor. 'On these cards are written the names of all the different kinds of plants a florist is likely to carry. Will you label your flowers, especially the rarer ones or ones that you keep on exhibition in the window, so that customers and people passing may get a lesson in botany and horticulture every time they come this way? I am distributing these cards among all the florists in town and seeking their co-operation.'" — New York Sun.

GLOUCESTER, CONN.—E. M. Arnold will erect two additional greenhouses to those which he already has on Farrows street.



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With the three sizes you can obtain

All Heights, from 6 to 48 inches.

No other stand is so simple and easily adjusted.

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The saving in time and labor for one season will pay for a complete equipment.

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Vine, Plant and Vegetable

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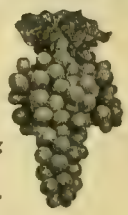
UNRIVALLED FOR Vines, Tomatoes, Cucumbers all Flowering, Foliage and Fruit bearing Plants, Vegetables, Lawns, etc.



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For the Garden, Orchard and Greenhouse

Non-poisonous and harmless to vegetation.

Kills Green Fly, Aphides, Bark Lice, Thrips, Mealy Bug, Red Spider, Scale, Wire Worms, Ants and Slugs.

This is the Grower's Friend, handy to use, cheap and effective, mixes readily in water. Destroys all insect pests and keeps down filth. Circulars on application. $1.50 per gallon. Also in quarts, half gallons and in bulk.

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FLUSHING, N. Y.

This Kills Mildew

Every Time.

For particulars write

BENJAMIN DORRANCE,

Rose Growers,

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Fresh Tobacco Stems,

$1.50 for 300 lbs.

W. C. BECKERT,

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"Natural Guano" Pulverized Sheep Manure

Guaranteed pure and unadulterated, thoroughly sterilized and immediately available. Used universally as a quickly acting natural plant food.

Write us for prices and particulars.

Natural Guano Company, Aurora, Ill

Our Pastimes.

Announcement of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to A. F. Faulkner, 1133 Broadway, New York; Robt. Kift, 1725 Chestnut St., Philadelphia; or to the American Florist Co., Chicago.

At Chicago.

In a match game between the Breen & Kennedy team and the Florists' Club on Friday evening at Bensinger's alleys the Florists nosed out a victory by six pins after a hair-raising finish. Breen & Kennedy were two men short and filled up with Frank Pasternick and Billy Graff, and at the end of the second game were 12 pins to the good, which advantage they held up to the last frame of the last game, when everything depended on that old warhorse, John Zech, who had to make two strikes to put his team in the running. John, who had already rolled two sterling games of 221 and 225, responded nobly and laid down two perfect strike balls, and the victory was won, as all he had to get on his third ball was one pin, but he made assurance doubly sure by hitting the head pin full in the nose, leaving a beautiful four-pin railroad which, fortunately, he did not have to shoot at, and finished with an average of 203 2/3 for the night. This boosts his grand average to 183 15/18, and he is followed in the order named by G. A. Zech, 169 6/21; V. Bergman, 167 15/21; G. Asmus, 163 4/18; T. C. Yarnall, 152 2/21; W. Graff, 148 2/15; F. Pasternick, 145 7/21. The score:

Breen & Kennedy.

Stevens	195	212	156
Pasternick	145	125	142
Graff	125	164	109
Sidebottom	167	182	182
Rosendahl	179	186	173
Total	811	869	762

Florists.

A. Zech	162	163	158
G. Asmus	149	159	125
T. Yarnall	124	169	160
V. Bergman	151	145	172
J. Zech	221	225	165
Total	807	861	780

Breen and Kennedy	811	869	762—2,442
Florists' Club	807	861	780—2,448

The team that will represent the Florists' Club at the S. A. F. convention will roll against a strong team selected by Matty Faetz on July 23, at Faetz's north side alleys.

The crucial game of ball in a series of five between teams representing Bassett & Washburn's greenhouses and Vaughan's Seed Store greenhouses was played on July 18, at the West Hinsdale baseball park and resulted in a victory for the B. & W. team by the score of 26 to 19. The line up of the champions was:

Harry Coombs, c.
Fred Oper, p.
Fred Herman, 1b.
Joe Kohout, 2b.
Aleck Linn, 3b.
Jack Landis, s. s.
Chas. Hillebrand, l. f.
Ed. Hillebrand, c. f.
Otto Reinberg, r. f.

C. L. Washburn, manager of the team, says they have challenged the Poehlmann outfit for a game August 1, and are open to challenge from any greenhouse in the country.

Ed. Winterson says that the alleys in the convention city on which the tournament games will be rolled are the best that he has ever seen. They are kept covered with three or four inchs of sawdust to keep out the moisture and the pins are packed in the same material.

The ball game at the Florists' Club picnic is billed as a hair-raiser. Both wholesalers and retailers are out for blood and each claims that they have the other fellows beaten to a frazzle. Here's hoping.

It is understood that some of the contestants in the 100-yard dash are sneaking off before daybreak and taking trial spins in out-of-the-way places. One enthusiastic manager claims that his entry did the hundred in nine flat. There must have been a strong incentive behind him.

The committee on arrangements for the Florists' Club picnic met at Zech & Mann's Wednesday evening, July 21, and completed final arrangements for the picnic July 22.

At Baltimore.

The Gardeners' Club had its annual picnic July 15, at Bay Shore park. This is located at the junction of the Patapsco river and Chesapeake bay, the site of the battle between the Americans and British in 1814 which resulted in the death of the general of the invading force and the withdrawal of his troops, thus saving our city from capture. It is not only historic ground but an admirable place for an outing. The water is magnificent, the buildings are commodious, the music is fine and many attractions are provided for the pleasure of visitors. There were present about 200 persons, members of the club, their families, friends and invited guests. All enjoyed the bathing and crabbing. The waters here contain crabs by the million, and the sport of catching them is greatly enjoyed by the women and children, if not exciting enough for experienced sportsmen. The main attraction, however, was the bowling. There are 10 really fine alleys, and all had a chance. Besides, there was a baseball game, running matches, sack races, etc. In the men's running race of 100 yards Ward Perry came in front and got the prize of a neat necktie and gold clasp. In the boys' race, same distance, E. Politzer won out, getting a penknife as prize. In the ladies' race of 50 yards Miss Reinhalt came in first. In the sack race for men John Nuth was victor, and in that for boys, Ward Perry. A good deal of interest was shown in the bowling. Following are the scores of the competing teams in the main match:

Guerth	164	171	148
Perry	169	162	157
Bauer	108	165	109
Welsh	137	93	127
Richmond	180	166	190
Total	758	757	731
Boone	172	140	191
Rosnosky	114	152	129
Stevenson	125	102	138
Eberle	134	151	156
Seybold	152	153	181
Total	697	708	795

Each man on the winning team got a scarfpin as a prize.

In the ladies' match Mrs. Fred'k C. Bauer won first prize. Miss Reff second and Mrs. James Boone third. In the visiting ladies' match Mrs. Shaffer, of Washington, D. C., carried off the honors. In the individual bowling Harry Lehr came out ahead and received a handsome watch fob as a prize. Among the visitors from outside the city were Messrs. Gondy, Smith and Rosnosky, of Philadelphia, and George C. Shaffer, W. Mayberry and Ernest Mahoney and wives, of Washington, D. C. S. B.

At Davenport, Ia.

The Tri-City Florists' Club's annual picnic, which was held at Walnut Grove, Moline, Ill., July 15, proved to be one of the most successful affairs ever held by the club. The weather man, in prospect of a bouquet, furnished as fine a day as could be wished for and the committee in charge provided everything to be wished for in the way of refreshments, games and entertainments of all kinds.

As was to be expected, the baseball game was the main event of the day, the Davenport boys playing a team of Rock Island and Moline florists. The Illinois boys, with the aid of the umpire, managed to win the game after a hard struggle, the score resulting 7 to 6 in their favor. But in all the other contests they didn't hold a candle to the Davenporters. Henry and John Staack were the batteries for the Illinois team, and Theo. Ewoldt and John Bills for Davenport. Henry Gaethje, Jr., was the official keg tapper; John Temple, the ladies' man, and Emile Boehm looked after the children and were judges of the races, etc. About 50 were present and all voted the picnic a grand success. T. E.

At New York.

The annual outing of the employes of Vaughan's Seed Store and friends was held on the afternoon of July 17 at Bamberger's park, Eltingville, Staten Island. It was a most successful affair and very creditable to the lads and lassies, whose wise foresight had much to do with making it an entertaining event. The only drawback was the unavoidable absence of Manager Scott, who is visiting his old home in the west. His genial personality and good fellowship at any event which he attends make his absence a loss.

After a fine trip down the bay to St. George and thence by rail to Eltingville, there were baseball games, dancing and bowling, a number of the ladies making high scores in the two latter sports. Mine Host Bamberger provided a most excellent dinner and a group photograph was taken. The return trip to the city in the cool evening was even more enjoyable than the voyage down. The cool breezes, the music and the bright lights caused even the hard-headed and matter-of-fact salesman McArdle to show some glimmerings of sentiment. To Messrs. Chadwick, McArdle and Roy, the Misses Peck and others of the store, congratulations are in order from the guests for this very enjoyable event. A group photograph is reproduced on page 1314.

Don't forget the outings of the Greek-Americans on July 29 and the Cut Flower Exchange July 31.

At Pittsburg.

The Florists' and Gardeners' Club's outing and basket picnic was a great success. With ideal weather and a good place at Keystone park, on the P. and W. R. R., the day was an enjoyable one. The turnout was very good and the few who failed to put in an appearance certainly missed one of the best picnics. One of the main features was the ball game between the wholesalers and retailers. The former give the score at the end of the eighth inning as 4 to 3, which was correct; but they do not like to mention the last inning, when the retailers put 11 runs over the plate. A balloon ascension was on the programme and we think this last inning was it. J.

At Washington.

BOWLING.

The day is coming closer when it will be decided who shall be the champions of the S. A. F. Capt. Shaffer's team is working for a record. Scores as follows:

McLennon	161	146	206	171
Hamner	162	166	157	175
Dalglish	183	153	143	146
Cooke	175	165	136	138
Simmonds	177	223	170	170
Shaffer	233	135	189	191
Ernest	166	161	173	160

G. S.

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The Allied Trades

Descriptive particulars—with drawings or photographs, if possible—of any new apparatus or device which may prove helpful to the trade are solicited for this department.

THE American Blower Co., Detroit, Mich., is sending out a series of excellent little booklets calling attention to their specialties in ventilating, cooling and exhaust machinery. The little one on "Ventilating and Cooling" is an especially tasty bit of work.

A Heating Question.

ED. AMERICAN FLORIST:—

I have a house 16x114 feet with a boiler rated 900 feet radiation, 2½-inch flow pipe. What is the best size for return pipes and how many? The center bed is on the ground, one-half side sash is 14 inches high, wall four feet, double boarded and paper; center ridge 8½ feet. House No. 1 has two 2-inch flows overhead; cannot get in ground over two feet deep. I would like to locate boiler in the same pit with old one, also put both in a battery, for the coldest temperature outside is 20° above, 54° inside. I send a rough sketch of house. I could put boiler in potting shed joining south end of No. 2 greenhouse but it would be inconvenient. J. T.

Georgia.

There is no reason why the new boiler cannot be placed in the present boiler pit, although a little better circulation could be secured if the boiler could be located nearer the end of the house. If hot water is to be used, as I infer is the case, I would run a 3-inch main from the boiler and then carry two 2½-inch flow pipes overhead in the house. Each of these should be made to supply three 2-inch returns which should be placed as high as possible on the side walls.

L. R. T.

Using Supports for Heating.

ED. AMERICAN FLORIST:—

We intend to build a new greenhouse for cut flowers 20x100 and 13 feet high, and are going to use 1¼-inch pipe for braces; these braces we would like to use for heating (steam) at the same time. We wish you would inform us whether the steam will circulate through them and will give the same satisfaction as put up in the usual way. We beg to mention that we have a Morehead steam trap installed.

S. & D.

As a rule I do not think it is worth while trying to use the pipe braces in a greenhouse for heating purposes, although if "S. & D." has gas pipe purlins these might be used to furnish heating surface. It would also be pos-

Boilers, Tubes, Flues, Etc., at Wrecking Prices!

If you intend to increase the size and capacity of your greenhouse or make any repairs for the coming winter, be sure and write for our low estimate on your requirements before placing your order We have just purchased at a forced sale **50,000,000 ft. Brand New Lumber and Timbers,** which we offer at prices lower than your local dealer can supply the same grade.

Estimates Furnished Free, Our Greenhouse Engineer will furnish you with any estimate on anything you may require in the Boiler, Heating Material or Building line. **Write for price list on Iron Pipe.**

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7-500 horse power Babcock & Wilcox water tube boilers with B. & W. chain grates, about 5 years old; 160 lbs pressure. Also complete coal and ash handling apparatus capable of of taking care of these boilers.

4-250 horse power **Heibe** water tube boilers with Oliver patent grates; 100 lbs. pressure.

1-125 horse power **Morrison** corrugated furnace, internally fired boiler, 125 lbs. pressure.

1-48x21 locomotive fire box boiler, 60 horse power 100 lbs. pressure.

24-Horizontal tubular boilers, triple riveted; ½-in. shell, ⅝ heads; with Murphy Furnace and stokers on all boilers; also coal and ash handling apparatus for these boilers.

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6-72x20 horizontal tubular boilers, quadruple riveted; 50 4½-in. tubes, 110 lbs. pressure.

4-72x18 Horizontal tubular boilers, 100 lbs. pressure.

4-72x16 Horizontal tubular boilers, 95 lbs. pressure.

2-66x16 Horizontal tubular boilers, triple riveted, **Butt** strapped, 140 lbs. pressure.

8-60x16 Horizontal tubular boilers, 100 lbs. pressure.

2-54x16 Horizontal tubular boilers, triple riveted, butt strapped, 125 lbs. pressure.

2-48x14 Horizontal return tubular boilers, butt strapped, double riveted; 125 lbs. pressure.

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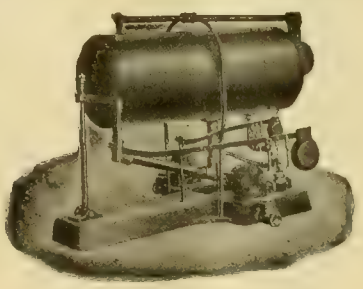

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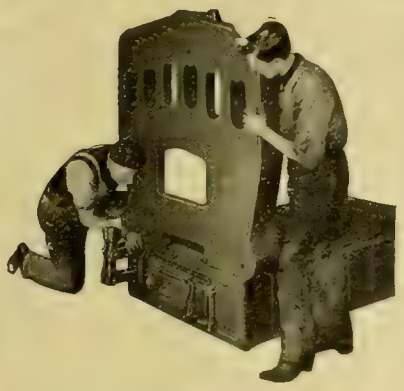

To "put in a boiler" usually means a big job—men, dirt, bricks, tackle, etc. around your place for several days—that is not our way. The cast iron sectional base takes the place of the brick fire pit, and can be put together in a few minutes. You don't need heavy tackle and rollers to handle the boiler—each section is bolted on separately— a two man job.

If the entrance to your boiler room is small, you don't have to take out the wall; you carry in the boiler in sections—through an opening one foot wide if necessary. This all means a big saving in time and labor.

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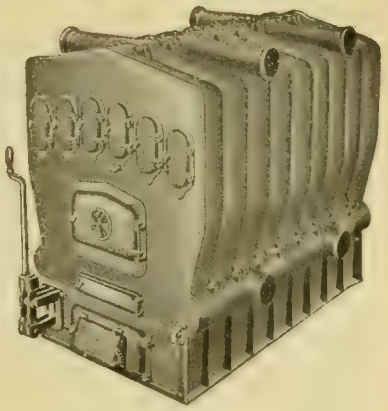

Hitchings & Company

Elizabeth, N. J.

sible to have the cross pipes and posts connected in the same way, but in that case drip pipes must be provided at the bottom and this would cost about as much as independent piping that would furnish heating surface equal to that in the posts and cross pipes. For various reasons also it is not well to have steam in the vertical posts. Whatever is done, it should be so arranged as to allow the drip water to flow by gravity back to the boiler, and there should be air-valves at the proper places, which in this case would be at the lower end of the coils. L. R. T.

A Heating Query.

ED. AMERICAN FLORIST:—

We are using the overhead system, that is we have two 4-inch flues running overhead and nine 4-inch returns running underneath the benches in a carnation house 26x115 feet. We thought in mild weather we would get more benefit of our coal by closing off some of the pipes, say half of them or so; that would save heating the whole body of water. We thought of putting a valve on each line underneath near where they join the big return going into the boiler. Would you kindly tell us through your paper whether that would work all right, or would the water in those closed pipes interfere with the circulation on the upper end? If so, let us know what you think the best way to arrange it.
SUBSCRIBER.

As I understand the arrangement there would be no difficulty in controlling the circulation if valves are placed upon a part of the return pipes. However, I consider that it is sometimes a question whether it is not cheaper to check the fire, leaving all of the pipes circulating, than it is to cut off half of the returns and carry the water in the others warm enough to furnish the temperature desired in the houses. L. R. T.

Greenhouse Building.

Kankakee, Ill.—Faber Bros., new greenhouses.

Altoona, Pa.—W. T. Shields, one greenhouse.

Eugene, Ore.—Misses Ida and Hariette Patterson, new greenhouses.

Allentown, Pa.—John Sykes, one greenhouse, 20x130 feet.

Westfield, N. J.—Chas. Doerrer, one steel greenhouse, 33x150 feet.

Woburn, Mass.—John Newman, one greenhouse, 500 feet long.

Marion, Ind.—A. Hecker, one greenhouse.

Harrisonburg, Va.—J. E. Plecker, new greenhouses.

Meriden, Conn.—J. A. Greenbacker, one greenhouse 90 feet long.

Oelwein, Mich.—Chas. Hancock, one greenhouse 30x60 feet.

Gloucester, Conn.—E. M. Arnold, two greenhouses.

Albany, N. Y.—J. J. Berberick, one greenhouse 23x45 feet.

Cohoes, N. Y.—A. D. Carpenter, one rosehouse 30x120 feet.

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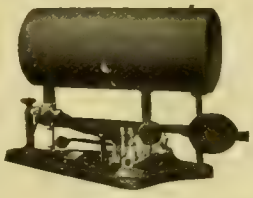

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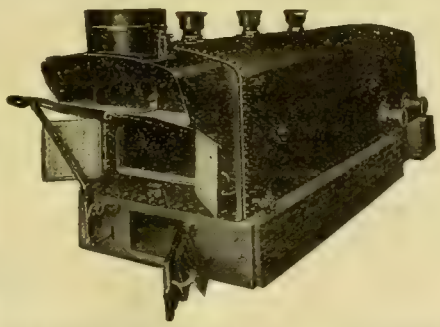

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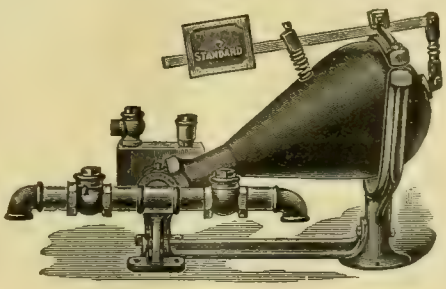

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E. HIPPARD, Youngstown, O.

Lexington, Ky.

Honaker, the florist, has two of the prettiest windows ever seen here. One of them is a waterwheel scene and the other a cottage built on the hill, with ornamental grounds surrounding same. D. D. Honaker is just back from his vacation, which he spent with his wife in St. Louis. He is not feeling well at all; he has been sick for several weeks, but we hope to see him himself again very soon.

The boys at the J. A. Keller estate are extremely busy at present planting roses. Their chrysanthemums, of which they have several thousand, are also in good shape. In the neighborhood of 20,000 carnations will also be planted here this season.

Lucien Le Clere, manager of the South Broadway Greenhouses, has some fine ferns coming on for the fall sales at that place. He also has the lawns and flower beds looking well at the I. and C. park of which he has charge. A. L.

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